This doctoral dissertation studies construction of leadership in a context of organizational change. Research represents relational leadership studies in which leadership is understood as a situational, co-constructed and context dependent phenomena. Interaction is significantly meaningful in situationally changing understanding of leadership. This study utilizes stories and narratives in researching leadership. This study analyses how the relationship between leaders and followers constitutes and how sensemaking considering the change process occurs from the followers' point of view. In addition to sensemaking processes of sensegiving and sense breaking are also studied concerning the strategic change. Communication concerning the change in the studied organisation is textual, digital and tecnologically mediated: leadership communication and its meanings are also analysed. Research design is narrative. Interview data is collected from a Finnish industrial company.

Based on the results of this study leadership relationship in situation of change is constructed narratively through sensemaking. Four kinds of narratives are contructed from the data: Follower leads the way, Management leads the way, Time will tell and the narrative of Externality. In each of these the process of sensemaking and leadership relationship are different. Weick’s (1995) seven properties of sensemaking are used as basis for the analysis of sensemaking. Emotions and experiences emerge meaningful in this analysis of sensemaking. Narratives also change in the talk of the followers: interplay between different point of views and interaction of meanings are typical. This variation of narratives is named as shifting narrative sensemaking in this study. Variation of narratives form different kinds of recurrent dynamics in the talk of the followers.

Analysis identifies six different kinds of dynamics. These dynamics describe leadership relationships and are connected to relational leadership especially from the relational aspect. Dynamics are named based on how variation occurs in them. A different kind of leadership relationship can be found in each dynamics: in dynamics called from ‘initiative to giving up’ relationship is frustrated, in ‘vertically alternating’ dynamics relationship is reflective. The dynamics which ‘perceives the diversity of change’ relationship is analytical. In hierarchical dynamics relationship is submissive. In dynamics that ‘lives along in change’ relationship is involved and in anticipating dynamics the relationship is trusting. Recurrent triggers which launch a new narrative can be found from the variation of narratives. Typically, triggers are blog texts written by board members in the company and situation in the market: they both triggered Management leads the way -narrative. Previous change iniatives as a topic triggered Time will tell -narrative. Informal question concerning potential additional comments launched narrative Follower leads the way. Theoretical contribution of this study offers a new kind of narrative point of view to relational leadership. Methodologically this study contributes to the analysis of dynamics of change narratives and their reciprocal variation.
variance will substantially contribute to financial risk management.

The first part of this thesis concentrates on the impact of news on jumps. First, a non-parametric statistical framework is introduced to examine the association between news arrivals and jumps in stock prices. To uncover the market reaction to news alerts, I focus on the time distances (waiting time) between news arrivals and the nearest detected jumps. For a given news item, both backward and forward waiting times are calculated with the jumps detected before and after the news arrival. In particular, backward waiting times may reflect possible information leakage. To examine whether observed jumps are associated with real news, a set of timestamps of general reference news is simulated considering intraday seasonality. Applying non-parametric tests, we are able to extract the statistical profiles of the empirical waiting times and their simulated references. As a result, the association between news and jumps is quantitatively demonstrated.

Taking advantage of the developed statistical framework, a thorough empirical analysis is implemented using Nordic and U.S. data to show the impacts of Nordic firm-specific and U.S. macroeconomic announcements on stock prices in both Nordic and U.S. markets. Specifically, the impact of scheduled and non-scheduled firm-specific announcements on Nordic stock prices is tested. I also investigate the sizes of jumps related to Nordic scheduled and non-scheduled firm-specific announcements following the same non-parametric methodology. In order to feature the importance of certain types of firm-level news, such as acquisitions, five important firm-specific announcements are selected to test their impact on Nordic stock prices in term of jumps. Regarding U.S. economic news, I provide empirical results for the impact of U.S. macroeconomic announcements on the U.S. stock index. In addition, U.S. macroeconomic announcements are grouped by announcing time. Their impacts on Nordic stock prices are studied to examine the importance of announcing clock time and the global influence of U.S. economic releases.

The second part in this research relates to the impact of macroeconomic news on equity variance modeling and the related option valuation performance with GARCH models. Impact variables of macroeconomic news are constructed using both the arrival timings of U.S. macroeconomic announcements and realized variance, and are incorporated into classical GARCH models. The impact variables of macroeconomic news slightly improve the joint likelihood of returns and VIX for all models compared with standard GARCH models. Regarding option valuation, an affine GARCH model with news event data consistently outperforms a pure affine GARCH model. However, there is no such consistent result for NGARCH and GJR models, implying that the explicit use of macroeconomic news events data does not improve the performance of variance modeling and option pricing with non-affine GARCH models.

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Crafting Organizational Information Security Policies
An organizational information security policy (InfoSec policy) is a directiongiving instrument for information security within an organization that seeks to communicate an organization’s posture in protecting its information assets. Researchers and practitioners alike agree that an InfoSec policy has a foundational role in securing an organization’s information assets. In an era where information is a precious resource and information security breaches are ever more prevalent, developing such a policy has become even more crucial for organizations.

The importance of an InfoSec policy has resulted in scholarly research on the policy’s contents and structure, and on the means to promote employee compliance to the set policies. In regards to policy development, research has privileged abstractions – abstract methods and procedures policy development should follow. By emphasizing such abstractions, research has paid less attention to how policies are crafted in practice.
Therefore, the purpose of this dissertation, which consists of a compendium of articles, is to increase our understanding of the crafting of InfoSec policies. Theoretically, the dissertation draws on practice theory, which takes orderly social and materially mediated doings and sayings ("practices") as an arena for studying organizational phenomena. Empirically, the dissertation includes three qualitative studies: two ethnographic studies on InfoSec policy crafting and one case study on the implications of the crafting to policy compliance. Empirical material includes participant and non-participant observation, documentary sources, and semistructured interviews.

The dissertation contributes to the literature on information security management. The primary contribution of this dissertation is the conceptualization of InfoSec policy crafting as emerging in the lived contradictions between the international information security best practices and the local organizational practices. More broadly, the dissertation contributes to research on InfoSec policy development by positing that to understand policy crafting requires deep engagement with the actors who participate in the policy crafting and with the field where the policy is crafted. Further, the dissertation contributes to discussions on policy compliance by suggesting that compliance should be considered as partly emerging from and through the practices of the policy crafting and as relational to them. The potential for developing the policy as a joint engagement with different organizational members should not be underestimated.

The argument developed in this dissertation is that both organizations and research should place more emphasis on the practical accomplishment of InfoSec policy crafting. InfoSec policy development is not about following a rote procedure, but is a practical, joined, and skilled accomplishment – a craft. Policy crafting influences what is included in and excluded from the policy and how the policy will be complied with.
Disruptive change and the reconfiguration of innovation ecosystems

This conceptual paper extends the traditional view of disruptive change, which considers the effects of rivalry between an incumbent and new entrant firm, by examining the impact of disruption upon the ‘innovation ecosystem’ in its entirety – the group of organisations that collaborate in creating a holistic value proposition for the end-user. Following Adner’s “ecosystem-as-structure” perspective, we develop propositions that anticipate structural differences between incumbent and disruptive innovation ecosystems, and then review these propositions in the context of three historical, disruptive innovation cases; Bakelite (a synthetic plastic), microwave oven, and photocopier. Through these cases, we illustrate that the manner of innovation ecosystem reconfiguration is likely to depend on the design attributes of the product, as well as the type of disruption experienced. We conclude by reflecting upon contemporary cases of disruption enabled through digital technologies, and proposing a framework that can guide future research.
Substanssiosaamisen integroinnin vaikutus asenteisiin ja motivaatioon yliopistomatematiikassa

Legitimacy Building in a Whole Supply Network during its Formation Phase

Legitimacy is essential for an inter-organizational network’s willingness to supply resources. This study focuses on the legitimacy-building process in a whole supply network in its early formation phase. The main objective of this study is to increase understanding on how the network actors, i.e. the organizations participating in the network, build legitimacy during the formation of a whole supply network. Whole networks, i.e. consciously created, goal-directed networks with a separate identity and collective actions, are considered to be the future of organizing in a society of networks. Whole supply networks are whole networks that operate in the manufacturing of products. Legitimacy building in a whole network is researched via the manifestations of dimensions, three in the pre-network and four in the network formation phases. In addition, the contingencies that exist in legitimacy building during the formation of a whole supply network are identified.

The legitimacy-building process was researched in the case of one whole supply network of 20–26 Finnish maritime organizations in a three-year networking project using pragmatic research philosophy. The mainly qualitative empirical research material was collected by means of interviewing the network actors and observing the network’s events and their respective documentation. The manifestations of the legitimacy-building dimensions as well as the contingencies were analysed at the inter-organizational network level.

The research results show that especially the network’s strategic intents and communicating them to the network organizations are an essential dimension in the legitimacy building of a whole network during its formation. It is particularly noticeable that the strategic intents of a whole network can be multiple, may even overlap and are achieved asynchronously and, if unclear, they may cause issues in network legitimacy building.

This dissertation research makes several theoretical and practical contributions. From the viewpoint of the emerging network theory of whole networks, the results clarify the dimensions of legitimacy building in the formation phase, specifically in whole supply networks. Additionally, it gives new information on legitimacy building in whole networks in completely unexplored prenetwork circumstances. Furthermore, the results add to the discussion of supply network archetypes and various contingencies, which affect the legitimacy building of a whole network during its formation. Moreover, there are practical implications for both organization leaders contemplating network collaboration and also those managing it. First of all, the pre-conditions of legitimacy building shed a lot of light on the readiness of the network for collaboration, and thus the network’s legitimacy building. Secondly, the four dimensions of legitimacy building can be used as a general level roadmap for network legitimacy building. By investing in clarifying the strategic goals of the network, specifying a network structure that is suitable for achievement of the network’s goals, supporting the network’s interaction, and as a result, enabling the creation of the network’s own identity, the ability of a network to build both internal and external legitimacy is enhanced.

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"Together we stand, divided we fall": Constructivist Approach to Support Organizational Change in the Knowledge Work Context

Contemporary organizations have a relation to information systems and information technologies (IS/IT). IS/IT sometimes forms the backbone of the operation or it may have a support function. Simultaneously this means that at some point the systems must be updated and renewed. The renewal brings along changes. Always. The disturbance and disruption caused by the change manifests itself in different ways in different parts of the organization. It is an individual trait, how an employee responds to change, and yet changes need to be managed on organizational levels too. The management of the change is important to secure the implementation of the change and to enable the swift recovery from the change so that the prospective benefits may start to realize.

Literature distinguishes levels to be noted in managing organizations operation: organizational, team, and individual levels. Similarly, the literature on change offers multiple types of change to be considered. The features distinguishing the different types of change comprise e.g. whether there is a clear, decided future solution to be (teleological change) or whether there is merely an unrefined state of the future to be (life cycle type of change). The meaning of the types of change for managing the change are elaborated in order to recognize the characteristic effects each change entails.

IS/IT literature covers various topics in this vast field. Managing IS/IT related change seems a bit neglected, especially when it comes to managing the operation with individual human aspect considered. This thesis is about managing IS/IT-related change in team-based organization by using a constructivist approach. Constructivism is a theory related to learning. Constructivist approach entails the coach-like approach of presenting subordinates with a cognitive incongruity, a challenge that makes them wanting to solve the issue building on their existing knowledge. The challenge is tackled by applying new knowledge together with the existing feedback from more knowledgeable peers. An important feature is that the employee in midst of the change is able to reflect on her/his actions and thus acknowledging the learning. There are few examples of it being applied to professional context. This thesis studies ultimately the intersection of the three mentioned areas; IS/IT, change and constructivism. It deepens the understanding of the relationship these themes have and illuminates the suitability of the constructivist approach to managing IS/IT-related change in various contexts.

Seems that the IS/IT has its features of not being entirely about technologies nor the management being entirely about humans. An understanding of these features is required to address the issues in an orderly fashion. The organizational structure sometimes dictates the operation and culture, i.e. management. The daily routines of each member of the organization leaves little opportunities for individuals to be aware of the whole operation, save but the top management. Normally there is little need for this. This means that the ‘big picture’ that people have, varies. It is plausible to assume that each division, team, and individual observes the proceedings from their own perspective. However, the motivation of change usually stems from origins not familiar to all thus presenting the change with challenges. The thesis contributes to the increasing understanding of the phenomena related to IS/IT-related change by studying multiple cases, changes.

The research behind this thesis consists of seven major changes from six different organizations. People involved in the changes were interviewed to form the empirical material for the research. Semi-structured interviews were used to gain depth as well as quality. The objective was to understand the dynamics that are affecting and included in the process when the working practices in an organization change. The objective entails the will to illuminate the change and to gain understanding on how a change may be addressed with better expectations for the outcome. Further, to meet the objective it means that various aspects are to be recognized and acknowledged as being significant for the change to happen.

Constructivist approach emerged as way to offer a solution on how to address such a change. The studied cases were contemplated through the ‘constructivist lens’ to study the phenomena and even though not intended to offer some nigh on normative suggestions on how to approach future issues of this kind.
Designing green marketing across industries: a conceptual framework and implications for consumers and transdisciplinary research

Understanding what marketing messages trigger sustainable consumer behavior is one of the key issues for companies to be able to design effective green marketing. The goal of this paper is to present a conceptual framework for a green marketing approach that includes product, industry, production processes, and supply chain specific considerations to be utilized in the design of green product marketing for the mass markets. Based on a literature review, we have created a conceptual framework with industry-specific aspects on the basis of unique features in seven industrial sectors that are of relevance to the personal needs of consumers from an environmental perspective, but are focusing on the product-specific aspects of the marketed products. The originality of this study lies in the proposition that green marketing should use the actual product features as a starting point and not focus only on green consumers. The greenness of a product should be an additional dimension that adds to the competitiveness of the product when compared to conventional products. Theoretically, we propose that a transdisciplinary approach that integrates sustainable supply chain management perspectives to green marketing would benefit companies designing green marketing approaches and consumers making green product choices.
What drives the sensitivity of limit order books to company announcement arrivals?
We provide evidence that recent losses amplify order book illiquidity shocks caused by non-scheduled news. Moreover, the faster markets’ reaction to scheduled and non-scheduled news arrivals is in terms of order book illiquidity, the more illiquid the order book becomes; that is, a fast reaction is a strong reaction. Additionally, order book asymmetry observed before announcement arrivals is positively associated with the magnitude of illiquidity shocks.

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Authors: Siikanen, M., Kanniainen, J., Luoma, A.
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Toimittaja-asiakassuhteet vaativat edelleen kehittämistä
Tampereen teknillisen yliopiston Arvoa hankinnoista (ProcuValue) –
projektissa tukittiin kyselyn avulla yli kuudensadan toimittajayrityksen
näkemyksiä omista kyykkyyksistään ja suhteesta asiakkaiseensa.
Toimittajien usko omiin kykyihin on vahva. Toimittaja-asiakassuhteissa
on kuitenkin monia tekijöitä, joita parantamalla voidaan parantaa
arvonluontikykyä. Esimerkiksi toimittajien osallistuminen asiakkaansa
tuotekehitykseen on edelleen varsin vähäistä.

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Vaatimukset datapohjaisten kunnossapitopalvelujen liiketoimintaan
Teollinen internet ja sen myötä toisiinsa kytkeytyneet laitteet, ihmiset ja tietojärjestelmät tarjoavat yrityksille monenlaisia
liiketoimintamahdollisuuksia. Kunnossapitopalvelut ovat perinteisesti keskittyneet ongelmanratkaisuun ja laitteiden
cäynnissäpidon varmistamiseen, mutta ne voivat datapohjaisuuden myötä kehittyä oleelliseksi lisäävön lähteeksi.

General information
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How to manage innovation processes in extensive networks: a longitudinal study

In this paper, we examine the managing of the full innovation process, from visioning to commercialisation, in extensive networks. By drawing on the IMP, strategic network, and innovation network literatures, we develop a comprehensive picture of the management activities when ‘mobilizing’, ‘orchestrating’, and ‘involving’ actors in working towards the innovation aim in such network settings. Through using two longitudinal case studies – the one pursuing radical and the other incremental innovation - we provide an empirically refined understanding of seven key management activities (motivating, resourcing, goal setting/refining, consolidating, coordinating, controlling, and leveraging), which are needed throughout the innovation process to turn the diversity of an innovation network into an opportunity rather than an obstacle. We demonstrate how actor diversity and the type of innovation (radical or incremental) shape the management activities, and map a dynamic actor composition that evolves alongside the innovation process. The longitudinal data highlights the consequences of the presence or lack of management activities, and the interlinkages between activities throughout the process. Our findings also provide insights for practitioners on how to cope with the increasing tendency to involve diverse stakeholders in innovation by pinpointing the critical management activities that can be employed.

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Authors: Aarikka-Stenroos, L., Jaakkola, E., Harrison, D., Mäkitalo-Keinonen, T.
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Scopus rating (2013): SJR 1.483 SNIP 1.581 CiteScore 2.79
Scopus rating (2012): SJR 1.504 SNIP 1.669 CiteScore 2.51
Scopus rating (2011): SJR 1.037 SNIP 1.593 CiteScore 2.36
Scopus rating (2010): SJR 1.231 SNIP 1.635
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Scopus rating (2008): SJR 1.047 SNIP 1.406
Scopus rating (2007): SJR 1.318 SNIP 1.475
Scopus rating (2006): SJR 1.109 SNIP 1.735
Scopus rating (2005): SJR 0.821 SNIP 1.337
Scopus rating (2004): SJR 0.76 SNIP 1.188
Ecosystem Approach on Medical Game Development: The Relevant Actors, Value Propositions and Innovation barriers

This paper explores the medical game ecosystem and reveals the reciprocal value propositions of the relevant actors of medical game ecosystems, as well as barriers that may be complicating or hindering realization of the value propositions. The case comprises an emerging medical game ecosystem in Finland in the traumatic brain injury (TBI) rehabilitation context. This study presents 12 actor groups, their value propositions, and the barriers between the actors. This paper gives a comprehensive view of the actual medical game ecosystem that is needed to utilize the full potential of gamification and serious games in the health care sector.

General information
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Authors: Litovuo, L., Makkonen, H., Aarikka-Stenroos, L., Luhtala, L., Mäkinen, S.
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Interventionist management accounting research: theory contributions with societal impact

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Publisher: Routledge
Research output: Scientific - peer-review › Book
Network management in the era of ecosystems: Systematic review and management framework

Business-to-business (B2B) and business network scholars have begun adopting an "ecosystem" approach to describe the increasing interdependence and co-evolution of contemporary business and innovation activities. Although the concept is useful in communicating these issues, the challenge is the lack of overall understanding of the added value of the approach, its particular theoretical logic, and its links to network management. This systematic review analyzes the usage of the ecosystem concept in B2B journals and its implications for network management. Common themes are distilled, the specific features of the ecosystem approach are examined, and four categories of the ecosystem approach are identified: (a) competition and evolution; (b) emergence and disruption; (c) stable business exchange; and (d) value co-creation. We also examine shifts in management opportunities and challenges related to these developments. Finally, we suggest a revised network management framework, where we address the implications of utilizing an ecosystem layer for the analysis, as well as using the ecosystem as a perspective in the management of business and innovation networks. Overall, this study contributes to the literature by providing a coherence-seeking, systematic outlook on the increasingly useful, but still nascent and ambiguously utilized ecosystem approach.

Exploring institutional drivers and barriers of the circular economy: A cross-regional comparison of China, the US, and Europe

The Circular Economy (CE) has been identified as a sustainable alternative to the current linear economic model. Thus far, research on the circular economy has focused on methods for better conserving the value in material flows. As the CE is currently being adopted as a sustainable development strategy in, e.g., China and the EU, identifying and comparing the drivers of and barriers to CE implementation would be beneficial for the acceleration of the development path. To contribute toward this research area, we built on institutional theory via a multiple case study covering China, the US, and Europe. We analyzed each region as an institutional environment and considered manufacturer and integrator types of value chain actors due to their central role in CE implementation. As our key findings, we identified that the general drivers...
of the CE from each institutional environment support recycling as the primary CE action, while support for other CE types appears to be lacking. Regulatory measures have primarily driven increased recycling efforts on both the integrator and manufacturer sides. Similarly, identified normative indicators overwhelmingly point toward recycling, while increasing reuse faces cultural-cognitive barriers. Between regions, China differs due to its informal sector and strong regulative institutional support. We conclude that to improve institutional support for the CE and allow it to fulfill its potential as a sustainable growth model, diversified institutional support for reducing the products produced and materials used as well as increasing reuse are needed.

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Scopus rating (2013): SJR 1.432 SNIP 2.184 CiteScore 3.34
Scopus rating (2012): SJR 1.262 SNIP 1.811 CiteScore 2.91
Scopus rating (2011): SJR 1.119 SNIP 1.848 CiteScore 2.62
Scopus rating (2010): SJR 1.163 SNIP 1.82
Scopus rating (2009): SJR 1.143 SNIP 1.647
Scopus rating (2008): SJR 0.803 SNIP 1.302
Scopus rating (2007): SJR 0.783 SNIP 1.708
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Scopus rating (2004): SJR 1.031 SNIP 1.425
Scopus rating (2003): SJR 0.571 SNIP 1.086
Scopus rating (2002): SJR 0.399 SNIP 0.856
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Authors: Dedehayir, O., McPhee, C. (ed.), Seppänen, M.
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Volume: 7
The core interaction of platforms: how startups connect users and producers

The platform economy is disrupting innovation while presenting both opportunities and challenges for startups. Platforms support value creation between multiple participant groups, and this operationalization of an ecosystem’s value co-creation represents the “core interaction” of a platform. This article focuses on that core interaction and studies how startups connect producers and users in value-creating core interaction through digital platforms. The study is based on an analysis of 29 cases of platform startups interviewed at a leading European startup event. The studied startups were envisioning even millions of users and hundreds or thousands of producers co-creating value on their platforms. In such platform businesses, our results highlight the importance of attracting a large user pool, providing novel services to those users, offering a new market for producers, supporting the core interaction in various ways, and utilizing elements of the platform canvas – an adaptation of the business model canvas, which we have accommodated for platform-based business models – to accomplish these goals.

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Finnish Apprenticeship Training Stakeholders’ Perceptions of Vocational Expertise and Experiences of Workplace Learning and Guidance

This study examines Finnish apprenticeship training stakeholders’ perceptions of vocational expertise and experiences of workplace learning and guidance. The semi-structured interview data was collected in 2015 in two vocational fields: the social and health care services sector (five workplaces) and the technology sector (five workplaces). The sample (N = 40) consisted of apprentices (n = 10), their co-workers (n = 10), workplace trainers (n = 10) and employers (n = 10). The study applies the classifications of natural abilities and self-regulation to identify the most important individual characteristics related to vocational expertise. The socio-cultural approach to workplace learning and guidance illustrate that vocational expertise also develops from external support through participation and guidance in everyday interactions in the contexts of education and work. The data was analysed using qualitative content analysis. The findings indicate that individuals with fluent cognitive skills (e.g., problem solving skills) combined to advanced social skills, self-awareness and self-regulation are perceived as vocational experts. The apprenticeship training was considered to draw upon an extensive learning environment to facilitate an apprentice’s vocational development by offering access to authentic work tasks and collective support by experienced workers. Yet, the lack of time, resources and pedagogical approaches were found to hinder individual guidance and reciprocal workplace learning between apprentices and experienced workers. The workplaces were shown to provide fruitful learning possibilities for those apprentices with strong self-regulatory skills.

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Organisations: Industrial and Information Management, University of Tampere
Authors: Pylväs, L., Nokelainen, P., Rintala, H.
Problems of enterprise architecture adoption in the public sector: root causes and some solutions

Enterprise architecture (EA) is a comprehensive approach aimed at understanding and aligning an organization’s business strategy and processes, information resources, and information technologies. However, implementing this approach in an organization is not an easy task as organizations have their preexisting siloes and fragmented procedures and departments. Comprehensive, inter-organizational practices, such as EA, usually break old procedures and habits, shift decision-making power, and challenge old values. This makes EA endeavors extremely difficult. In this paper, we conduct a qualitative multiple-case study. We use institutional theory to identify problems and their root causes in EA adoption in three cases. We also discuss possible solutions—by identifying eight root causes and several examples, both successful and not-so-successful—to mitigate or overcome these problems. We also argue that institutional theory and its three pillars provide a usable lens to analyze EA adoption.

Business Model Innovation of Startups Developing Multisided Digital Platforms

Platforms are defined as multisided marketplaces with business models that enable producers and users to create value together by interacting with each other. In recent years, platforms have benefited from the advances of digitalization. Hence, digital platforms continue to triumph, and continue to be attractive for companies, also for startups. In this paper, we first explore the research of platforms compared to digital platforms. We then proceed to analyze digital platforms as business models, in the context of startups looking for business model innovation. Based on interviews conducted at a technology startup event in Finland, we analyzed how 34 startups viewed their business model innovations. Using the 10 sub-constructs from the business model innovation scale by Clauss in 2016, we found out that the idea of business model innovation resonated with startups, as all of them were able to identify the source of their business model innovation. Furthermore, the results indicated the complexity of business model innovation as 79 percent of the respondents explained it with more than one sub-construct. New technology/equipment, new processes and new customers and markets got the most mentions as sources of business model innovation. Overall, the emphasis at startups is on the value
creation innovation, with new proposition innovation getting less, and value capture innovation even less emphasis as the source of business model innovation.

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**Job Crafting Aspects to Support Well-being at Work in an Activity-based Office**

Well-being at today’s demanding and constantly changing work is important. The well-being of the employees can be seen as a strategic asset in organisations (Stemp et al. 2015). Besides the work itself, the context of work, work environment, is changing. The so-called activity-based offices are increasing in number (Kim et al. 2016). The activity-based offices differ from traditional cellular or open-plan offices in the way that they no longer provide a dedicated, personal work desk for every single employee. Compared to other office types, activity-based offices typically include many different work settings or areas, which differ from each other in terms of possibility to concentrate on individual or group work, collaboration, privacy etc. Objectives of such work environments relate to cost savings, improving cross-departmental collaboration (Kim et al. 2016), autonomy and job satisfaction. It has been stated that the activity-based working improves work satisfaction because of the freedom of choice and autonomy and improves the health and well-being of employees (van der Voordt 2004) However, the activity-based office concept posits some challenges for workers and their well-being. Although the amount of activity-based offices is increasing, the satisfaction with the concept appears to be below expectations (Hoendervanger et al 2016). Activity-based offices are criticized for the loss of personalisation of workplace, risk of inadequate ergonomics and hygiene of shared desks. Additionally, Elsbach (2003) found that the activity-based work environment has the possibility to threaten workers’ workplace identities. In her study, it was also found that the office concept in question also negatively affected employees’ sense of belonging to a group. When considering the well-being of an employee, the work environment and the office design should be considered, too. Research has shown that the office design affects the identity of an individual, as well as their creativity, mood, comfort, ergonomics and safety (Elsbach & Bechky 2007) In general, occupational well-being is influenced by many factors. One model which can influence
employee well-being and performance is the Job Demands-Resources (JD-R) model. The JD-R model claims that every work has its own demanding and motivating factors. Job demands are elements of work that demand sustained physical and/or psychological effort. On the other hand, job resources are elements of work that for example help to achieve work-related goals, reduce job demands and/or encourage learning, development and personal growth. (Bakker & Demerouti 2007) By affecting or modifying the demands and/or resources, the employee can affect their well-being. This is called job crafting. Job crafting is a method of job redesign, in which workers create an improved fit between the demanding factors of their jobs and themselves. Job crafting affects the well-being, as it helps to improve the balance between job demands and resources. (Siemp et al. 2015) Job crafting is an effective method to improve well-being, as it increases job resources over time (Tims et al. 2013). Job crafting typically covers the modification of three elements of work: crafting job tasks (number, scope, type), interaction with others (quality, amount) and cognitive task boundaries. (Wrzesniewski & Dutton 2001) It has been found that employee well-being and job crafting are correlated (Siemp et al. 2015). Thus, the purpose of this paper is to better understand the characteristics of activity-based work environments and their potential risks and benefits. After analysing the work environment, we propose a model of job crafting in an activity based office. As the satisfaction with activity-based offices seems to be below expectations and the office concept seems to have some negative effects to health and productivity, it is reasonable to study well-being in the office type in question. Research question to be answered is what job crafting possibilities lie in activity based offices to support well-being at work? The research methods include observation and interviews in the Finnish company Martela, in the capital area of Finland. The interviews (n=11) covered topics such as reasons to choose work settings, views of their work environment, pros and cons of the work environment, the values of the company, organisational house rules and individual work habits. The case organisation can be viewed as a successful case, as the employees seemed very happy in their ways of working and the supportive work environment. Results of the study include a proposal of job crafting in an activity based office, leading to better occupational well-being. It also covers a comparison of job crafting and activity based working.

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Authors: Horstia, J.
Publication date: Aug 2017
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Research output: Scientific : Paper, poster or abstract

Eco-Friendly Brands to Drive Sustainable Development: Replication and Extension of the Brand Experience Scale in a Cross-National Context
The purpose of this study is to explore how consumers perceive eco-friendliness in their brand experiences and how this can be measured cross-nationally. This is a replication-extension study based on an existing brand experience scale. Data were collected in India and Finland from smartphone users (N = 1008). The fitness of the brand experience model is validated cross-nationally with structural equation modeling. The empirical data consisting of consumers’ responses on the Apple, Samsung, and Nokia brands confirm that there is a unique dimension of eco-friendliness in the general brand experiences of consumers, and it is generalizable cross-nationally in India and Finland. The study presents a consumer-focused measure of sustainable development that could be used to track how consumers perceive the eco-friendliness of brands. The paper links consumer experiences that guide sustainable consumption behavior to the macro-level management of sustainable development. This paper extends previous research on brand experience measurement by testing cross-nationally a scale including a dimension for measuring eco-friendliness. The brand experience measurement scale could aid companies in tracking the success of their sustainable development initiatives on the brand level.

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Organisations: Industrial and Information Management, Research group: Center for Innovation and Technology Research
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Scopus rating (2015): SJR 0.473 SNIP 0.926 CiteScore 1.78
Scopus rating (2014): SJR 0.499 SNIP 1.048 CiteScore 1.52
Mediator's role in an innovation ecosystem

The diffusion of new innovations into a business ecosystem is an interesting phenomenon. In order to gain competitive advantage for SMEs and also to add value in SME networks, the dynamic nature of the business ecosystem demands the capability to adapt new ideas. On the other hand, the risk-bearing ability of SMEs alone can be a barrier to the utilisation of novel innovations. In order to answer our research question - how to improve innovation diffusion in a business ecosystem via SME networks in collaboration with academia? - in this article we introduce the mediator-assisted innovation diffusion (MAID) model. The model was tested in multiple case studies where a total of 18 organisations participated. In the conceptual part of this paper we discuss the context of business and innovation ecosystems, the process of innovation diffusion and the mediator's role in value creation for SME networks in such an evolving ecosystem.

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Scopus rating (2013): SJR 0.211 SNIP 0.331 CiteScore 0.28
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Scopus rating (2009): SJR 0.239 SNIP 0.265
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Research output: Scientific - peer-review › Article

Understanding consumers' renewable energy behaviour beyond 'homo economicus': An exploratory survey in four European countries

Climate change is putting global pressure for energy consumption and production to move towards sustainable solutions based on clean energy sources. Rapid advancements in technology make energy generation and storage solutions available and affordable for consumers and enable them to become relevant actors in the energy process. The actual success of sustainable energy solutions is however not so much dependent on technological readiness, which is already in place to large extent, but rather on influencing consumer adoption in an impactful way. This article explores consumers' behavioral drivers for the adoption of renewable energy solutions by comparing the economic, ecologic and social
preferences of consumers in four European countries.

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**The front end of radical manufacturing technology innovations**
The creation of Radical Manufacturing Technology Innovations (RMTI) is necessary for the renewal and enhanced productivity of manufacturing processes. There is a need to understand different strategies for managing the front end of RMTI in manufacturing firms. We conducted an embedded multiple-case study in three firms with different RMTI strategies. The results show different extents of formal roles, involved departments and documentation in RMTI, and differences in organizing the RMTI front end. All case companies had carried out the front end of RMTI successfully and repeatedly. The contributions include alternative strategies for managing the front end of RMTI successfully.

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**Editorial on research on innovation and business ecosystems**

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Developing of a Quadruple Model for Collaborative Research Actions between Higher Education Institutions and Industry

This research focuses on new, more practical models of collaboration between higher education institutions and industry in European universities. EU, the national governments and especially the national economies demand that there should be more goal-oriented actions for technology transfer and collaboration between HEIs and businesses so that the research and innovation results can be faster and more effectively capitalised. There is a research gap in combining the fluent partnerships, the applied technology research, the technology knowledge transfer and the integration of RDI and education with effective working methods. This research has concentrated on the modelling of research, development and innovation actions of HEIs, which aim at quality and practical RDI collaboration with enterprises as well as close integration between RDI actions and education.

The context of this research is the field of Finnish Universities of Applied Sciences (UASs) and in case studies the Satakunta University of Applied Sciences (SAMK) on the west coast of Finland. The goal of this research was to find connective factors and working methods, which can be utilised and focused on the research, development and innovation work at Finnish HEIs but also shared with other European universities in the future. In addition to all this the impact of the RDI work was studied in order to find the most effective factors affecting the integration of RDI and education and the engineering educators' professional development.

This research solved real world problems of enterprises and HEIs with innovative models. The main research method of this thesis has been the design science research. The modelling of the technology knowledge transfer as well as the technology research, development and innovation inside each project were based on design science research methodology. Altogether, the whole research process rested on an idea of a new HEI targeted model for collaborative research between HEIs and industry.

This research confirms that partnerships between HEIs and enterprises generate several benefits, like new learning outcomes and need based competence development for the personnel. The partnerships seem to require constant development of the processes and actions, but this research indicates that well-functioning partnerships create research-based knowledge to support innovation processes in the industry, foster new innovation creation and recognise new opportunities for future collaboration. The research results encourage the HEIs to set their own goals more vigorously already in the beginning of the process.

The technology knowledge transfer modelling of this research has been based on applied research cases, in which the research knowledge and practical skills have been combined in order to answer the needs and challenges of the enterprises. The main goal of the practical research work has been to apply new technologies to new cases and to create new applications. The impacts of different applied research cases have been identified from the different perspectives of enterprises, HEIs and students. The modelling is based on the generalisations of these identified impacts. This research generated three different models for technology transfer. These models introduce new approaches for need and dialogue based technology knowledge transfer. The models focus on knowledge increase and innovations in SMEs. The models are non-linear, emphasise the meaning of need recognition and consist of many iterative cycles. This research states that the technology knowledge transfer deepens the collaboration between the HEIs and the SMEs. The model also aims at increasing the responsibility of the enterprises and supports push to pull transformation of the technology knowledge transfer.

As a part of this thesis, the experiences of engineering educators working as engineering researchers were studied. The results indicate that applied technology research work can increase the engineering educators’ knowledge and practical knowhow remarkably. The educators highlighted new experiences and personal development. They found the applied technology research very arduous but also rewarding. This research states that the applied technology research work is an effective way of lifelong learning.

All things considered, this research was essentially a discourse of interactions between HEIs and enterprises, especially small and medium sized enterprises. The modelling of the actions and procedures have aimed at the interactions and collaboration that can add value for both parties. As the main contribution of this research the W4 – a quadruple model for
collaborative technology research activities between higher education institutions and industry – has been created. The purpose of the W4 model is to create a WINWIN-WIN-WIN situation for the HEIs‘ regional innovation environment. When the HEIs and industry collaborate according to the model, all the participants, enterprises, HEIs, students and the surrounding society, win as the collaboration creates several advantages for all of them.

To conclude, the W4 - a quadruple model for collaborative technology research activities between higher education institutions and industry – indicates clear benefits for enterprises, HEIs and students, who bring their needs and knowledge to the shared platform of collaborative technology research activities and as a result of these activities they all gain new knowledge, practical knowhow, and ideas for innovation and development. When the enterprises openly bring their technology needs and challenges to the process of collaborative activities, the HEIs can identify and allocate their expertise to these purposes and engage students to work within the processes.
ranging from fuel costs to environmental values. This study examines companies’ vehicle investment decision making in Finland and focuses on the interaction between objective facts and subjective feelings along with the process of choosing the vehicles’ energy source.

This article is based on an interventionist case study. Switching path analysis technique (SPAT) was used to investigate companies’ switches from conventional fuels to natural gas or biogas. This article contributes to the discussion of AFV adoption by unveiling companies’ decision-making triggers, investment criteria and the use of information sources in the decision-making processes. The findings regarding the decision-making dynamics between these factors are transferable to other energy investments. However, the content of the triggers and drivers varies across contexts and may change over time, because vehicles as investment objects have different meanings for different organizational actors depending on their organizational role, investment use context, and personal preferences.

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Knitting company performance and board interlocks: An exploration with the Finnish software industry
A board of directors is a supreme organism of a modern company. Often, a single board member has a place in several companies’ management teams. This is called a board interlock and its impact on a single board member, companies and the economics on the whole has been studied for decades. However, there is a lack of understanding how software companies’ board of directors interlock as the field is driven by knowledge and relations more heavily than the other fields. Therefore, well-connected board members could be a vital competitive advantage for companies. This study presents a quantitative analysis of 262 Finnish software companies, their boards and performance. The results show that neither high board interlocks nor foreign board members are remarkably related on the performance of companies. The implications of the findings are discussed and future research inquiries are proposed.

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Examining service experiences: comparing methods to capture children's experiences

Purpose – Recent discussion on the service-dominant logic (SDL) and interest of studying service experiences in different contexts have been increased. However, this has brought up a new methodological challenge for contemporary research. Research methods used, need to capture experiences in the contexts of value co-creation while taking dimensions affecting to experience co-creation into account. This challenges researchers to adapt their methodology to be suitable for the context of studied phenomenon. This paper will provide a set of methodological snapshots applicable for SDL and service research in a context of healthcare services for children and their families.

Design/Methodology/approach – Study draws on selected literature from the fields of service research and healthcare services and tests new methods of capturing experiences in a special experience context of children's healthcare. We analyze and report a set empirical studies applying of qualitative and quantitative approaches for investigating experience in a special research field of children’s healthcare experience. These methodological approaches include probing, structured and unstructured interviews and surveys. We review and compare the key characteristics of the methods and their respective benefits for service experience research.

Findings – Key findings shows that some research methods are more appropriate capturing children’s experience data. Study also suggest that some methods are more appropriate for capturing data of co-creation in children’s social contexts.

Research implications – The paper builds contribution by increasing understanding on how different research methods capture dimensions of service experience co-creation and help researchers interested in studying children’s experiences to select an appropriate methodology for conducting their research. Originality/value – Service experience research lacks paper that pieces together different methodology approaches capturing complex phenomenon of children’s experiences.

Key words methodology, children's experiences, service experience, healthcare

Paper type – Research paper

Knowledge Management and Retention: A Case of a Water Utility in Finland

Knowledge management has been discussed and debated world-wide since the beginning of the 1990s. Over the years, knowledge management has become important due to an increased awareness of the importance of knowledge for an organisation's prosperity and survival, and due to the increased availability of information technology to store, distribute and generally manage knowledge.

The shared opinion globally and in Finland is that water utilities, where most of the larger water utilities are integrated and provide both drinking water and wastewater services, face continuous challenges with the changes of physical and operational environment and with rapidly ageing personnel. Because knowledge management, especially tacit knowledge, is a critical success factor for water utilities when striving for better and more sustainable performance, utilities should manage both explicit and tacit knowledge and transfer them to new generations of employees.
This dissertation deals with knowledge management at one Finnish utility. The following research questions are addressed: (i) how do personnel at water utilities interpret the concepts of information, knowledge management and tacit knowledge, and how is knowledge captured and shared; (ii) what information needs do personnel have in performing daily tasks and what acquisition channels do they use; and (iii) what is the role of formal and informal networks in performing daily tasks and gaining new knowledge.

The approach of this research is qualitative and contained both longitudinal and cross-sectional time horizons. The personnel of the same water utility were interviewed with a semi-structured questionnaire in 2004 and in 2013. The interviews were analysed by combining qualitative and statistical methods. Multiple sources of evidence on knowledge management practices at water utilities and in organisations was gathered in thematic workshop sessions in 2010 and in 2011.

One of the interesting findings was that interpretations of knowledge management had changed from informing people in 2004 to understanding knowledge management as personal, individual property in 2013. The personnel were proud of the knowledge they owned of the water treatment processes. This knowledge was considered technical knowledge, which is critical to the livelihood of the utility. There were many ways to share information and knowledge and a number of reasons were found explaining why knowledge sharing was considered difficult. The most important difficulties mentioned included lack of time, competing priorities, organisatorial barriers, sharing attitudes and atmosphere, a gap between older and younger people, and unwillingness to share.

In 2004 tacit knowledge was an unknown concept while in 2013 the concept was quite clear to most of the personnel. Tacit knowledge was highly valued and it was associated with the skills and knowledge gathered over the years working at the same water utility. Tacit knowledge was shared in normal daily work and especially during malfunctions.

Information needs and usage at the utility were versatile and depended on the tasks performed by the employees. Almost everyone (over 90%) needed technical information on equipment, and over 60 percent needed knowledge of legislation. This research showed that the personnel used personal files, document collections, the internet and the intranet more often in 2013 than in 2004. The shift from printed material to electronic material has increased over the years. At the same time discussion with closest co-workers kept its importance.

The traced networks in trade union and professional association membership of the personnel indicate that assistance for solving professional challenges is not sought from these sources. The most important network was the closest co-workers, concerning the solutions to problems related to daily tasks. The results showed that external networks were large, quite stable and included multiple sectors. The professional networks consisted of task-relevant contacts, and every interviewee had individual contact networks.

Knowledge management requires long-term planning and actions. In this research it was clear that the top management should take responsibility for knowledge management at the utility. They should set strategies and approaches for knowledge management actions and ensure time allocations and tools for knowledge sharing. It is important to specify which kind of knowledge is valuable and worth retaining from the information overload.

Empirical findings from tacit knowledge, knowledge capturing and sharing, professional networks and knowledge retention at water utilities contributed to the understanding of the importance of knowledge management and knowledge retention. A limitation of this research is that it deals thoroughly with one water utility only. Thus, the results of this study are neither universally applicable nor directly applicable to water utilities of the same size. Yet, the gained results were supported by the evidence from multiple water utilities and water sector organisations.

The most important scientific contribution of this dissertation is that knowledge management was explored comprehensively in a sector that has not been studied extensively earlier. The results contribute to the body of scholarly literature in information and knowledge acquiring, creation, sharing and retention of water utilities. The study, among other things, found that a more in-depth study is needed to find out how knowledge management and retention differ at water utilities of different sizes and what effect ownership has on them. More research is also required of the demographic changes at water utilities, especially the effect of new generations on the way water utilities will operate in the future.

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Managing intellectual liabilities by service recovery

Purpose – The paper studies intangible liabilities in a practical management setting with an overall aim to develop better managerial practices to avoid depreciation of organizations’ intangible assets.

Design/methodology/approach – Empirical examination of the studied phenomenon was carried out in construction industry. Empirical data was gathered in two phases. First, 16 persons engaged to customer service in four construction companies were interviewed. The purpose was to identify intangible liabilities. After the interviews, two workshops in two companies were organized to reflect findings and to improve and develop organizations’ service recovery practices.

Originality/value – The novelty value of the suggested approach lies in cross-disciplinary consideration of customer experience as an antecedent of various processes that may have negative impact on organizations’ intellectual capital, and further on performance. The paper conceptualizes the hidden renewal capability of contradictory and negative customer experiences by analyzing their potential implications on IC, especially in relational capital.

Practical implications – Contributions of the paper relate to its practical research approach and focus on relational liabilities. The paper provides new understanding about intellectual liabilities within a certain industrial context and discusses more generalizable aspects to be considered in managing intellectual capital.

Keywords – Intellectual liabilities, Intellectual capital, Service recovery, Customer satisfaction

Customer Perceived Value - A Key in Marketing of Integrated Solutions

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Reliability and Perceived Value of Sentiment Analysis for Twitter Data

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Authors: Jussila, J., Vuori, V., Okkonen, J., Helander, N.
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Social Media Analytics Empowering Customer Experience Insight

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Authors: Jussila, J., Boedeker, M., Jalonen, H., Helander, N.
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Knowledge Management for Open Innovation: Comparing Research Results Between SMEs and Large Companies

Knowledge co-creation and effective knowledge sharing boost innovativeness in companies. However, rapidly developing technologies and constant changes in the business environment challenge the companies' practices for knowledge management (KM). The purpose of this paper is to compare the key KM practices and their effect on open innovation between the small-and medium-sized companies (SMEs) and the large companies, and as empirical focus, comparing them through quantitative survey and complementary qualitative interviews. The results indicate that large companies are more externally open to innovate than SMEs and the large companies also value open dialog and knowledge sharing more. Whereas, SMEs seem to rely more on developing their internal practices to support innovativeness. In the both company sizes technology is used rather poorly to support access to open data and networks. The identified factors provide insights for developing KM practices that support open innovation in varying sizes of companies.

A typology of inter-firm project networks

While existing literature has provided rich insights into the nature and functioning of inter-firm project networks, relatively little is still known about how these temporary organizational networks differ from each other. Drawing from transaction cost economics and social embeddedness literatures, this paper provides an attempt to elaborate how two antecedent factors, namely structural embeddedness and goal ambiguity may relate to the governance structures set up to ensure that projects will be carried out efficiently and effectively by inter-organizational networks of heterogeneous participating firms. A typology of project networks derived from earlier literature is presented and discussed in light of earlier research. This typology provides an initial attempt at highlighting how the mechanisms used to safeguard, coordinate and adapt interdependent economic transactions may differ between inter-firm project networks.
Developing the project-based firm's relationship with distributors in the delivery of complex systems

Many project-based firms in industrial markets use distributors to save cost, utilize local expertise, and maximize coverage in their global markets. Distributors in business-to-business market are not only wholesalers but they are representatives of the focal firm's business in defined regions. The purpose of this paper is to increase understanding on the role of distributors in delivering complex systems and highlight the importance of developing distributors' capabilities in the delivery of complex systems. A qualitative case study was conducted in one project-based firm. The results show that the project-based firm and distributors have close collaboration in the different phases of system delivery. The results contribute by identifying different required distributor capabilities that are grouped into business, relational, marketing, and delivery capabilities. The manufacturer needs to develop the distributors' capabilities to move them from a standard equipment seller to a partner that can take an active role in delivering complex systems to the customers. The development can be divided into actions independent from projects and those closely related to the different phases of system delivery.

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Organisations: Industrial and Information Management, Research group: Center for Research on Operations Projects and Services
Authors: Momeni, K., Martinsuo, M.
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Introducing the project value framework: An integrative view of the multidimensionality of project success measurement

Measuring a project's success has been extensively discussed by practitioners and researchers alike. However, practice and research tend to provide a large number of different success measures which form a fragmented whole. Some of the used success measures even seem to be in conflict unless contextualized in terms of reference to time, or in terms of taking a perspective of a specific stakeholder. The purpose of our paper is to develop a conceptual framework for measuring project success that integrates those key dimensions necessary for understanding the distinct contribution of individual measures in the overall project assessment. The proposed project value framework relates benefits with sacrifices by considering explicitly time (in the system lifecycle), perspective (of a project stakeholder) and context (of the project itself) to select a set of measures to determine project success. We analyze the extant literature of project success to develop the project value framework. We see that the conceptual understanding of project success and value, and the key dimensions that are necessary for making sense of various success measures, has a potential to contribute significantly to the management of project operations in organizations that use projects as specific forms of organizing their activities.

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Organisations: Industrial and Information Management, Research group: Center for Research on Operations Projects and Services, Stevens Institute of Technology
Authors: Lechler, T., Ahola, T., Artto, K.
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Practices for program scope definition and goal setting in change programs

Organizations establish change programs to renew their business and implement their strategy. Programs coordinate the activities and projects in the strategic change, to achieve the pursued benefits. As the success of programs is usually assessed in terms of achieving the program benefits, there is a need for better understanding on how the benefit expectations are converted to the program scope and goals. The purpose of this paper is to explore change program scope definition based on company strategies, and the conversion of scopes towards program goals. The aim is to present the practices the organizations use to define the scope in change programs and, thereby, develop new knowledge on the process of program scope definition. A qualitative study was performed in three programs involving change in information systems, processes and organizational structures in two technology companies. The results show that organizations specify program scopes based on assumptions about the status of the organization, and develop use case scenarios of the target state of processes to convert benefit expectations to goals. The findings contribute by specifying
actions for scope definition and offering a more formal view to it in information system oriented organizational changes, when compared to behavioral organizational changes.

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Authors: Guzmán Monet, J., Martinsuo, M.
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Surviving project discontinuities: Relationship quality and extrabusiness relationship maintenance practices in project relationships
Project-based firms repeat projects in similar kinds of project networks and may often benefit from maintaining long-term relationships with their suppliers. Maintenance of extrabusiness relationships is needed during project discontinuity in order to ensure that relationships do not decay or dissolve. This paper explores relationship quality between a project-based firm and its suppliers, and mechanisms to maintain extrabusiness relationships during project discontinuity. We collected interview data in one business network with long-term and recurrent project collaboration in a situation in which the actors were not engaged in a joint project together. We explored the experienced relationship quality at the early phase of discontinuity and identified extrabusiness relationship maintenance mechanisms used during project implementation. Specific extrabusiness maintenance activities were not found during the discontinuity but, instead, certain relational and business-related activities during project implementation seem to carry over the project discontinuity as well. The results show evidence that strong relationships characterized by technical congruence, reciprocal dependence, complementing technological commitment and developed during a long-term, recurrent and demanding project execution, do not require active maintenance during periods of project discontinuity.

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Authors: Mäenpää, S., Martinsuo, M., Ahola, T., Breite, R.
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Research output: Scientific » Paper, poster or abstract

The business of projects in and across organizations
An organizational perspective of project management emphasizes the use of projects as means for profitable, sustainable business. To maintain a successful project business, it is not sufficient for project execution to be managed efficiently. Instead, the lifecycles of projects must be managed strategically. Significant business choices concerning project scope, partner relationships, and financial commitments are made before a project is planned or implemented. Similarly, significant business implications occur after a project has been completed, when the project’s results are in the customer’s use and may require repetitive or continuous services. This chapter outlines the business of projects through the decisions that occur at the front end of projects, the management control of projects during project execution, and the services offered to build continuous customer interaction over the lifecycle of product use. We will illustrate the business aspects of projects through examples of three empirical studies. The chapter will contribute to the extant literature by revealing the business lifecycles of projects in their contexts, mapping the business-inducing events of projects in and across organizations, and highlighting new avenues for research, particularly at the boundaries of projects and their broader business contexts.

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Organisations: Industrial and Information Management, Research group: Center for Research on Operations Projects and Services
Authors: Martinsuo, M., Sariola, R., Vuorinen, L.
Pages: 9-18
Publication date: Jun 2017
Using sales agents in project marketing

Many project-based firms (PBF) provide tailored solutions to a global marketplace. Success in project marketing calls for both a systematic collection and processing of customer information and active development of customer relationships on potential markets. When the base of PBF’s potential customers is not necessarily concentrated on specific market areas, project marketing activities may be prohibitively expensive to be fully carried out in-house. To combine the ability to serve global markets with an acceptable cost level, the PBF may outsource a part of its project marketing activities to external sales agents. As the use of sales agents is insufficiently covered in previous project research, we explore how Energy Solutions, a PBF delivering solutions to the process industry, routinely utilizes sales agents in its project marketing process. Drawing on interviews carried out with 14 individuals, our analysis resulted in a categorization of sales agents based on the breadth of their involvement in the project marketing process: no agent involvement, agent as lead seeker, agent as consultant, and agent as value-adding partner. The findings highlight the different ways to involve sales agents in project marketing and complement earlier research discussing the roles of external actors in the marketing of complex systems in the global marketplace.

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Tunteeko yrityksesi asiakkaiden laitekannan liiketoinintapotentiaalin?

General information
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Ministry of Education publication type: D1 Article in a trade journal
Organisations: Managing digital industrial transformation (mDIT), Industrial and Information Management, Research group: Cost Management Center
Authors: Laine, T., Lindholm, A., Stormi, K., Korhonen, T.
Publication date: 22 May 2017
Relocation of Nordic Manufacturing

Manufacturing industries have had an important role in the export-driven economies of the Nordic countries. Manufacturing companies from these countries have increasingly been moving production abroad in recent years. However, backshoring of previously offshored manufacturing is attracting growing attention among researchers and policymakers. This phenomenon, and its consequences for the renewal of manufacturing, are yet little understood.

The research project “Reshoring of manufacturing (ROaMING): Disruptive Technologies, Business Ecosystems and Performance Information as Key Enablers” focused on increased understanding of production relocation trends in the Nordic countries, Denmark, Finland, and Sweden. The aim was to create in-depth knowledge on the status of and potential for relocating manufacturing as a source of renewal of the manufacturing sector. The research approach consisted of quantitative and qualitative parts utilizing both available databases and new data collected through a large-scale survey and case research.

The report consists of five main content chapters. First, the survey results of offshoring and backshoring trends in the Nordic countries Denmark, Finland, and Sweden are presented. Then we discuss the use of financial information in decision-making regarding manufacturing offshoring and backshoring. Thereafter the results of a study on manufacturing innovations and the adoption and implementation of new manufacturing technologies are reported. The fourth chapter presents the results of a study involving two manufacturing companies on the role of business ecosystems in manufacturing relocation decisions. Finally, the fifth chapter explores the global production investments made during the period 2005-2015 by large manufacturing firms with headquarters in Denmark, Finland, and Sweden.

The results among the Nordic manufacturing firms indicate that offshoring is clearly more common than backshoring. The manufacturing relocations by Nordic firms are geographically wide-ranging. The most important regions for offshoring and of backshoring are Eastern and Western Europe, the Nordic countries, and China. Offshored production is typically cost focused, whereas production relocated to the Nordic countries is relatively complex and technology-intensive, seeking access to technology, skills and knowledge, and proximity to R&D and product development. Movement of production is expected to continue both offshore and back. The reinforcement of the Nordic countries as a strong base for high value-adding manufacturing firms can be influenced by policy measures and future research.

Policy implications, as well as future research proposals are noted as the result of this study. Cost competitiveness in the Nordic countries needs to be ensured in relation to their reference group in the competition. This also exerts pressure for continuous productivity improvements through technological advances and process improvements. Access to skills, knowledge and technology are important factors for Nordic manufacturers to relocate production. Therefore product, process and supply chain innovation, as well as colocation of R&D and production, need to be promoted. Policy-makers need to pay attention to maintaining the Nordic innovation systems. Many firms seem to lack a clear strategy or analytical capabilities for manufacturing location decisions. Expertise on managing global manufacturing networks should be enhanced. Follow-up on the extent, drivers and benefits of production relocations of the Nordic manufacturing firms is needed to enhance the fact-based understanding of the longer-term trend of manufacturing relocations.
Global challenges and role of institutions in water services

General information
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Organisations: Civil Engineering
Authors: Katko, T. S.
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Tuunaa & villia: Yritysyteltyön työkirja korkeakoulille

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Organisations: Industrial and Information Management, Research group: Novi
Authors: Hyypiä, M., Hämäläinen, A., Hämäläinen, P., Oikarainen, M., Salonius, H., Tuhkunen, A.
Number of pages: 39
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Yritysyteltyön työkirja korkeakoululle
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Hankintatoimen kyky luoda arvoa kehittyy

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Organisations: Industrial and Information Management, Research group: Center for Research on Operations Projects and Services
Authors: Jääskeläinen, A., Heikkilä, J., Thitz, O.
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ISSN (Print): 2341-7374
Change program management: Toward a capability for managing value-oriented, integrated multi-project change in its context

Program management has taken its position in project management research and in public and private organizations as a successful method for managing complex, uncertain, and large-scale changes. During the past 25 years, research has evolved from programs as the conceptual extension of projects to a rich field of empirical studies reflecting the special natures and contexts of change programs and their management, with unique theoretical foundations. To take stock of this recent history, in this article we analyze the patterns of previous empirical studies on change program management and their theoretical foundations. The goal is to identify and summarize proposals to guide forthcoming program management research. The results reveal three main themes of ongoing research: managing over the change program lifecycle, managing programs in their context, and program managers’ capabilities. The roots of change program management in organization theories are apparent; structural contingency theory and information processing theories have dominated in previous empirical research, but are clearly being extended to agency, stakeholder, and actor-network theories. New research ideas are proposed for the use of programs in various types of changes, value creation and delivery through change programs, the profiles and capabilities of different actors in program management, the coexistence and interplay of multiple programs, and the complex stakeholder networks involved with change programs. When change becomes more prevalent in the organizations' dynamic contexts, there is an increasing need to develop program management toward an organizational capability for managing value-oriented, integrated, and multi-project change in complex stakeholder contexts.

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Scopus rating (2014): SJR 1.443 SNIP 2.851 CiteScore 3.55
Scopus rating (2013): SJR 1.186 SNIP 2.651 CiteScore 3.11
Scopus rating (2012): SJR 1.11 SNIP 2.42 CiteScore 2.7
Scopus rating (2011): SJR 0.997 SNIP 2.228 CiteScore 2.57
Scopus rating (2010): SJR 1.17 SNIP 1.55
Scopus rating (2009): SJR 1.172 SNIP 1.749
Scopus rating (2008): SJR 0.926 SNIP 1.442
Scopus rating (2007): SJR 1.076 SNIP 1.63
Scopus rating (2006): SJR 0.88 SNIP 1.824
Scopus rating (2005): SJR 1.12 SNIP 1.719
Scopus rating (2004): SJR 0.732 SNIP 1.72
Scopus rating (2003): SJR 0.594 SNIP 1.09
Scopus rating (2002): SJR 0.853 SNIP 0.883
Scopus rating (2001): SJR 0.502 SNIP 1.066
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ASJC Scopus subject areas: Business and International Management, Management, Monitoring, Policy and Law, Management of Technology and Innovation
Keywords: Change, Change programs, Context, Multi-project, Organizational change program management, Program lifecycle
DOIs:
How to measure impacts of work environment changes on knowledge work productivity – validation and improvement of the SmartWoW tool

Purpose – Measuring productivity in changing environment is a challenging task for most of the organizations. However, it is very important for managers to measure how the changes in work environment impact on knowledge work productivity. SmartWoW is proving to be a useful tool for this type of productivity measurement, and organizations are using it to make changes in the work environment. As organisations become more interested in its uses, studies with more accurate results are needed. The purpose of this paper is to validate and improve the use of the SmartWoW tool.

Method – The SmartWoW tool was used in nine organizations, which formulate the research data. Convergent validity, divergent validity and reliability are tested with SPSS and AMOS. Both exploratory and confirmatory factor analyses are applied.

Findings – The SmartWoW tool structure was found to be valid. It follows the structure described in previous literature, with slight changes in two dimensions. Four variables were added to increase tool consistency, and their wording was harmonized.

Practical implications – SmartWoW is useful for evaluating an organization’s current work environment and practices, as well as for measuring the effects of work environment changes. This study’s results also suggest SmartWoW would be useful for research by, for example, evaluating how dimensions affect each other.

Originality – This study provides a better understanding of the unique features and uses of SmartWoW. The findings not only validate through statistical analysis the tool’s structure, but also improve it and offer a broader scope of its uses.

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Authors: Palvalin, M.
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Scopus rating (2014): SJR 0.42 SNIP 0.896 CiteScore 1.1
Scopus rating (2013): SJR 0.423 SNIP 0.953 CiteScore 1.36
Scopus rating (2012): SJR 0.269 SNIP 1.126 CiteScore 0.99
Scopus rating (2011): SJR 0.417 SNIP 1.041 CiteScore 1.04
Scopus rating (2010): SJR 0.233 SNIP 0.41
Scopus rating (2009): SJR 0.325 SNIP 0.717
Scopus rating (2008): SJR 0.246 SNIP 0.659
Scopus rating (2007): SJR 0.196 SNIP 0.224
Scopus rating (2006): SJR 0.233 SNIP 0.408
Scopus rating (2005): SJR 0.173 SNIP 0.292
Scopus rating (2004): SJR 0.259 SNIP 0.26
Scopus rating (2003): SJR 0.173 SNIP 0.27
Scopus rating (2002): SJR 0.122 SNIP 0.138
Scopus rating (2001): SJR 0.112 SNIP 0.026
Scopus rating (2000): SJR 0.1 SNIP 0
Scopus rating (1999): SJR 0.1 SNIP 0
Towards evidence-based management of external resources: Developing design propositions and future research avenues through research synthesis

The general question of how best to access and leverage resources that reside outside the boundaries of the focal firm has become increasingly important for companies during the last decennia, and scholars across management disciplines have responded with increasing research efforts. However, managers still seldom base their decisions on scientific evidence. Research on managing external resources is carried out in disciplinary silos and it is extremely difficult for managers to make sense of the vast amount of scientific studies. The success story of medicine as the first domain to widely adopt evidence-based practices has been an exemplar for other disciplines such as management to address the prevailing research-practice gap. Through a systematic review and synthesis of 601 articles in six academic journals representing three management disciplines we develop design propositions for supporting evidence-based management of external resources in firms. Our analysis reveals external resource management (ERM) research to be concentrated on six distinct, yet interrelated, themes. We adopt the CIMO-logic (Context, Intervention, Mechanism, Outcomes) for developing the set of design propositions within each of the research themes. A key scientific contribution is our identification of future research opportunities and directions to advance science in the field of ERM.
Emerging Challenges and Opportunities of Global Information Systems Management: Consolidated Assignments from Spring 2017

Global Information Systems Management deals with multitude of topics that relate to developing, applying and managing information systems in distributed settings for the good of organizations, communities and individuals. The Global Information Systems Management-course (TLO-35306) was arranged for the first time in Tampere University of Technology in Spring 2017. The exercise consisted of specific Global Information Systems Management-related phenomenon in a problem-based approach. Each group collaborated on finding a common topic of interest and problem to be solved from research or practice. Each group pursued the solutions to these open-ended problems (solution not defined) and reported their findings in the reports that are attached in this consolidated document. Thus, groups focused on organizational, individual or societal issues of their own choosing.

The exercise consisted iterative group working done in two parts:

1) Looking in to a phenomenon

In the first part (after groups were built), each group found out about a phenomenon and presented initial findings to the class. At this point, the open-ended problem was set. The course personnel and other groups helped in refining the focus of the group.

2) Addressing an open-ended problem

In the second part, groups addressed the emerging problems that organizations, individuals or societies faces. After this, the first version of the assignment was written. One round of feedback was conducted to harmonize the report before submitting the final version.

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Authors: Pirkkalainen, H. (ed.), Torro, O. (ed.)
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Something old, something new: Path dependence and path creation during the early stage of a project

Urban renewal projects involve several public and private stakeholders whose interaction during the project's early stage determines the scope of the project. Prior research has conveyed a somewhat ahistorical view of this early stage, based on the assumption that abundant design options are available to stakeholders. This study of a multi-stakeholder project, focused on the renewal of the commercial center of the historic garden city of Tapiola, seeks to increase understanding of processes of path dependence and path creation during the project's early stage. The findings show how a project and its stakeholders can be locked into a path that is affected by the stakeholders' shared history. The findings further reveal how external triggering events, emergent stakeholder dynamics, and active individual agency contribute to change in the project's goals, enabling breaking of the shared path and the gradual creation of a new path.

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Scopus rating (2013): SJR 1.186 SNIP 2.651 CiteScore 3.11
Scopus rating (2012): SJR 1.11 SNIP 2.42 CiteScore 2.7
Scopus rating (2011): SJR 0.997 SNIP 2.228 CiteScore 2.57
Scopus rating (2010): SJR 1.17 SNIP 1.55
Scopus rating (2009): SJR 1.172 SNIP 1.749
Scopus rating (2008): SJR 0.926 SNIP 1.442
Scopus rating (2007): SJR 1.076 SNIP 1.63
Scopus rating (2006): SJR 0.88 SNIP 1.824
Scopus rating (2005): SJR 1.12 SNIP 1.719
Scopus rating (2004): SJR 0.732 SNIP 1.72
Scopus rating (2003): SJR 0.594 SNIP 1.09
Scopus rating (2002): SJR 0.853 SNIP 0.883
Scopus rating (2001): SJR 0.502 SNIP 1.066
Scopus rating (2000): SJR 0.52 SNIP 1.145
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Authors: Ketonen-Oksi, S.
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Explaining the challenges in ERP development networks with triggers, root causes, and consequences

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Scopus rating (2013): SJR 0.511 SNIP 1.041 CiteScore 1.74
Scopus rating (2012): SJR 0.442 SNIP 0.712 CiteScore 1.2
Scopus rating (2011): SJR 0.486 SNIP 1.028 CiteScore 1.13
Scopus rating (2010): SJR 0.239 SNIP 0.401
Scopus rating (2009): SJR 0.122 SNIP 0
Scopus rating (2008): SJR 0.122 SNIP 0
Scopus rating (2007): SJR 0.122 SNIP 0
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Toimiva vesihuolto ei ole itsestäänselvyyss.

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Organisations: Civil Engineering
Authors: Katko, T. S.
Number of pages: 1
Pages: 17
Managers' viewpoint on factors influencing their commitment to safety: An empirical investigation in five Finnish industrial organisations

Managers’ strong commitment to safety is a key element of a successful safety management, culture and climate. Several studies have approached managers’ commitment from the employees’ point of view, but research approaching commitment from the managers’ viewpoint is scarce. This qualitative study aims to identify the organisational factors that hinder or promote managers’ commitment to safety and to suggest organisational measures that can be applied to support managers’ commitment to safety. A total of 49 managers in five industrial organisations were interviewed. In addition, a workshop for the safety professionals of the participating companies was organised to review the interview results and to suggest organisational measures to support managers’ commitment to safety.

The managers identified role overload, production demands, overly formal safety procedures, external safety goals, workforce attitudes and managers’ attitudes as the most common factors hindering their commitment to safety. On the other hand, the factors that promote managers’ commitment to safety are increasing managers’ safety awareness, influencing managers’ safety attitudes, recognising managers' safety commitment, emphasising managers’ safety responsibilities, developing adequate organisational safety procedures, superiors’ encouragement and support, benchmarking others’ safety activities, understanding the economic effects of safety, and safety improvement. The suggested organisational measures to support managers’ commitment to safety include inspirational and participative management training; appropriate safety objectives; peer, superior and top management support; campaigns and competitions; employee safety training; and simplified safety procedures and reporting. The study expands on previous studies on supervisors’ safety engagement and suggests practical organisational measures to promote managers’ commitment to safety.
Role of industrial internet platforms in the management of product lifecycle related information and knowledge

This paper addresses the data, information and knowledge management challenges in product lifecycle management (PLM) using novel industrial internet/industry 4.0/cyber-physical system platforms. PLM is quite seminally related to data, information and knowledge, and about getting these properly to serve a company’s business and product development as well as to create value for the customer. We analyze Industry platforms, that are enabled by industrial internet based technologies as well as certain collaboration and social media platforms that help solving certain PLM challenges. This analysis will allow companies to make informed decisions while selecting platforms to solve their PLM challenges.

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ASJC Scopus subject areas: Business, Management and Accounting(all)
Expert knowledge integration: A systematic approach for multi-stakeholder innovation

Companies developing their products or production often face complex, innovation-demanding problems. These innovations call for diverse expertise that does not exist within one company or even in its immediate network. The purpose of the knowledge integration system (KIS) tool is to transform expert knowledge into action systematically. By applying the cross-learning type of knowledge integration, the tool combines workshops and boundary objects that overcome knowledge boundaries between functions and organizations. The tool has been tested in a manufacturing investment project, where a new technology was brought into the production of a networked company. Based on this case, KIS was found to be a useful tool for supporting expert knowledge integration by collaboratively communicating and sharing knowledge in a multi-stakeholder environment to create solutions.

Relational factors as part of network relationship evaluation

The purpose of the tool is to provide the guidelines for evaluation of network relationships. It helps networked parties to focus on the essential relationship factors when the aim of the focal company is to reduce the need for control. The tool maps the level of relational factors in order to evaluate the potentiality for increasing self-direction between network parties and decrease the need for the focal company’s control. Together, the relational factors including both relational properties and relational behavior aspects form a platform that enables or restricts self-direction. The tool has been developed and tested in a case where the focal company was in need to decrease the control of its supply network and to secure its suppliers’ common cooperation capability.
Third-party-supported benchmarking for reciprocal learning

The tool has been developed for situations when a focal company encounters a practical problem in network management but does not have resources to match the problem into the right theoretical context and divide the problem into manageable entities. Here, benchmarking is viewed through a practice lens. Practice lens leads to focusing on the use of tool for creating common language and offering space for interaction. The tool has been developed and tested in a case where the focal company wanted to improve its R&D processes and better manage its innovation network. The purpose is to show how third-party-supported benchmarking is mobilized, that is, to provide the guidelines for successful benchmarking facilitating discussions and reciprocal learning in a network as well as to present the outcomes the process generated.

General information
State: Published
Ministry of Education publication type: A3 Part of a book or another research book
Organisations: Research group: Business Ecosystems, Networks and Innovations, Industrial and Information Management
Authors: Mäenpää, S., Suominen, A., Breite, R.
Number of pages: 14
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Publication date: 10 Mar 2017

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Title of host publication: Practices for network management : In search of collaborative advantage
Publisher: Palgrave Macmillan
Editors: Vesalainen, J., Valkokari, K., Hellström, M.
ISBN (Print): 978-3-319-49649-1
ISBN (Electronic): 978-3-319-49649-8
DOI: 10.1007/978-3-319-49649-8_12
Research output: Scientific - peer-review → Chapter
Sustainable project management through project control in infrastructure projects

Sustainability is becoming increasingly important in the delivery of projects as stakeholders require ethicality, eco-friendliness, and economic efficiency during a project's life cycle. Previous studies focused on the environmental aspects of sustainability in project deliverables, whereas less attention has been directed at sustainable project management during project delivery. The goal of this study is to identify the control practices that a project organization uses for sustainable project management. A qualitative single-case study was conducted on a large infrastructure project in which a road tunnel was constructed in a highly demanding environment, involving multiple stakeholders in an alliance contract. The results reveal that sustainable project management is implemented using not only indicators but a holistic control package in which control mechanisms are used differently for different sustainability dimensions. Internal project control is complemented with sustainable project governance, linking the project to its external stakeholders and regulations. The alliance contract activates the partners to exploit innovation opportunities and, thus, promotes economic, environmental, and social sustainability.
Governmental Governance of Megaprojects: The Case of EXPO 2010 Shanghai

General information
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Ministry of Education publication type: A1 Journal article-refereed
Organisations: Industrial and Information Management, Tongji University
Authors: Zhai, Z., Ahola, T., Le, Y., Xie, J.
Pages: 37-50
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Peer-reviewed: Yes

Publication information
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Scopus rating (2015): SJR 0.979 SNIP 1.721 CiteScore 2.34
Scopus rating (2014): SJR 0.824 SNIP 1.021 CiteScore 1.1
Scopus rating (2013): SJR 0.592 SNIP 0.897 CiteScore 1.01
Scopus rating (2012): SJR 0.653 SNIP 1.527 CiteScore 0.87
Scopus rating (2011): SJR 0.218 SNIP 0.7 CiteScore 0.5
Original language: English

Links:

Research output: Scientific - peer-review › Article

Etenemisen seurannasta elinkaariohjaukseen ratkaisutoimituksissa


Luomme viitekehyksen näistä osatekijöistä niin, että ratkaisutoimitusten projektipäälliköt voivat tunnistaa sopivia keinoja elinkaariarvon ohjaukseen, erityisesti projektien varhaisissa vaiheissa. Tämä pilottitutkimus avaa lisätutkimuksen mahdollisuuksia erityisesti elinkaariarvon ohjauskäytäntöjen tarkasteluun erilaisissa toimintaympäristöissä.

General information
State: Published
Johdanto
DIMECCin Service Solutions for Fleet Management (S4Fleet) -tutkimusohjelman kuluessa on syntynyt erilaisia
menetelmiä, työkaluja ja hyviä käytäntöjä, joilla organisatiorat hyödyntävät teollista internetiä ja sen kautta saatavaa
dataa kunnossapidoon ja muun teollisen palveluliiketoiminnan edistämisessä. Teollisen internetin ratkaisujen oletetaan
parantavan sekä kunnossapidon tehokkuutta ja laatua että palveluliiketoiminnan asiakkaiden tyttävyysyttä toimittajien
toimintaan. S4Fleet-ohjelman yhteisenä tuotoksena olemme nyt tuottaneet kokoomatokseen olemme nyt tuottaneet
kokoomateoksen, joka koostaa ohjelman alkuvaikutteja aikana tunnistettuja ja kokeiltuja menetelmiä, työkaluja
ja hyviä käytäntöjä datamahdollisella teollisen palveluliiketoiminnan
kehittämiseen. Myös muut aihepiirin tutkijat ja kehittäjät oivat voineet ehdottaa.
Kirjan
kohdeyleisöä ovat ensisijaisesti kunnossapidon ja muun teollisen palveluliiketoiminnan johtajat, kehittäjät ja
muut asiantuntijat. Kirjaa voidaan mahdollisesti käyttää myös opetustarkoituksissa. Kirja on toteutettu
DIMECCin S4Fleet-

Ratkaisua täydentävän palvelun omaksuminen ja käytön edistäminen
Laitteita, järjestelmiä ja prosesseja valmistavat ratkaisutoimittajat etsivät uutta liiketoimintaa lisäämällä palveluja

Aiemmin tutkimus on paljolti rajautunut uusien teknologioiden omaksumiseen ja kuluttajaliiketoimintaan, ja tämä tutkimus
luu uutta tietoa etenkin teknologiapohjaisia tuotteita täydentävien palvelujen omaksumisesta yritysten välisessä,
teollisessa liiketoiminnassa.
Sosiaalisen median hyödyntäminen konepajateollisuusyritysten viestinnässä ja erityisesti asiakasarvon viestimisessä

Visualizing the Geography of Platform Boundary Resources: The Case of the Global API Ecosystem

Platform boundary resources play an increasingly transformative role in the global digital ecosystem. In this study, we focus on one type of platform boundary resource, namely application programming interfaces (APIs). Guided by two competing assumptions—1) that geographic boundaries are blurred and potentially less important in a digitally connected world, and 2) that geographic proximity matters for co-innovation—we investigate the global footprint of APIs. Using a data-driven visual network analysis approach to examine more than 15,000 APIs and mashups, we first map the global locations of where APIs are being created. We then examine how API mashups connect these locations globally and regionally. Our results show that while APIs are globally distributed, they are mainly concentrated in major entrepreneurial regions. We also find that there is a skewed distribution, with the U.S. and Silicon Valley in particular leading the way. We conclude with both theoretical and managerial implications.
Winner does not take all: Selective attention and local bias in platform-based markets

We model how macro-level dynamics of platform competition emerge from micro-level interactions among consumers. We problematize the prevailing winner-take-all hypothesis and argue that instead of assuming that consumers value the general connectivity of an entire network, they are selectively attentive and locally biased. We contrast several alternative agent-based models with differing sets of assumptions regarding consumer agents' behavior and compare their predictions with empirical data from the competition between Sony's PlayStation 3 and Microsoft's Xbox 360. The results show that only when consumers are assumed to be selectively attentive and locally biased is it possible to explain real-life market sharing between the given platforms. In effect, it is shown how a late-entrant platform can get adopted by most consumers in the market, despite the fact that an early entrant has greater initial installed base, greater pool of complementary products, and lower initial price.
Avoiding wow-gaps through wow-canvas in business development

When talking about business development, it is important to keep in mind that the purpose of developing should drive towards differentiation of the company superiorly from rivals. The Wow-factor affects to all stakeholders of the company. Therefore, Wow-factor should be defined clearly and utilized better in all company processes. Wow approach is the approach through distinctive linkages between human, business and management aspects. Approach may emerge new, unique and motivating power to business development. This article introduces the model how to find the building blocks of Wow and how to track Wow through the company processes. The model is developed by combining the business model canvas, Wow-gap model and the theory of the Wow to a distinctive Wow-canvas. This article also deepens the knowledge of the use of the Wow-factor and the Wow-gap model in business development. Future research needs and actions are addressed in the end of the article.
Engaging in knowledge exchange: The instrumental psychological ownership in open innovation communities

Online communities have become a vital channel for professionals to expand their networks and initiate new strategic collaborations. Such online behaviors have led to multiple types of innovation potential that are based on the co-creation of ideas toward new solutions. Yet, very little is known about the role of psychological ownership of knowledge in professionals’ knowledge exchange in these communities that are based on voluntary contributions. We apply the psychological ownership theory and posit that psychological ownership of knowledge is instrumental to increased knowledge exchange intentions of professionals. Informed by the theory, our model incorporates several enablers of online engagement which could be associated with psychological ownership. Our exploratory quantitative study evidences that perceived ownership of knowledge plays a critical instrumental role in idea exchange behavior. We evidence how
personal outcome expectations, organizational innovativeness and affective community commitment are associated with psychological ownership of knowledge which is an important predictor of intentions to exchange knowledge in open innovation communities. Implications for theory and practice are discussed.

**General information**

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Organisations: Industrial and Information Management, Research group: Business Data Research Group
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Scopus rating (2015): SJR 1.085 SNIP 2.588 CiteScore 4.21
Scopus rating (2014): SJR 1.065 SNIP 2.307 CiteScore 3.62
Scopus rating (2013): SJR 1.225 SNIP 3.1 CiteScore 3.61
Scopus rating (2012): SJR 1.268 SNIP 2.357 CiteScore 3.09
Scopus rating (2011): SJR 0.797 SNIP 1.991 CiteScore 2.4
Scopus rating (2010): SJR 0.676 SNIP 1.587
Scopus rating (2009): SJR 0.562 SNIP 1.257
Scopus rating (2008): SJR 0.587 SNIP 1.414
Scopus rating (2007): SJR 0.69 SNIP 1.2
Scopus rating (2006): SJR 0.569 SNIP 1.22
Scopus rating (2005): SJR 0.464 SNIP 0.935
Scopus rating (2004): SJR 0.376 SNIP 1.021
Scopus rating (2003): SJR 0.806 SNIP 1.58
Scopus rating (2002): SJR 0.487 SNIP 1.037
Scopus rating (2001): SJR 0.446 SNIP 1.157
Scopus rating (2000): SJR 0.397 SNIP 0.908
Scopus rating (1999): SJR 0.253 SNIP 1.064
Original language: English
DOIs: 10.1016/j.ijinfomgt.2017.09.006
Research output: Scientific - peer-review » Article

**Finding the wow-factor to enhance business**

In every company’s business, there should be something really unique that differentiates the company from others, superiorly. In order to enhance company’s business and profits, the Wow-factor needs to be found consciously, defined clearly and utilized better. To enhance business by using Wow-factors and its potential, the concept of Wow need to be understood. This article presents the importance of the Wow and how it is connected to company’s everyday business. This article also presents one method to find the company’s Wow-factor by a case study. Method shows how to give personnel the opportunity to tell their feelings and point-of-views of what is that great, unique and positive thing what the company is doing. Article also deepens the knowledge behind the Wow-factor and why business development should take the Wow-factor into account. Future research needs and actions are handled at the end of the article.

**General information**

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Ministry of Education publication type: A4 Article in a conference publication
Organisations: Industrial and Information Management, Turku University of Applied Sciences, Aalen University of Applied Sciences
Authors: Penttinen, M., Reunanen, T., Borgmeier, A.
Number of pages: 10
Pages: 96-105
Publication date: 2017
Firms' knowledge profiles: Mapping patent data with unsupervised learning
Patent data has been an obvious choice for analysis leading to strategic technology intelligence, yet, the recent proliferation of machine learning text analysis methods is changing the status of traditional patent data analysis methods and approaches. This article discusses the benefits and constraints of machine learning approaches in industry level patent analysis, and to this end offers a demonstration of unsupervised learning based analysis of the leading telecommunication firms between 2001 and 2014 based on about 160,000 USPTO full-text patents. Data were classified using full-text descriptions with Latent Dirichlet Allocation, and latent patterns emerging through the unsupervised learning process were modelled by company and year to create an overall view of patenting within the industry, and to forecast future trends. Our results demonstrate company-specific differences in their knowledge profiles, as well as show the evolution of the knowledge profiles of industry leaders from hardware to software focussed technology strategies. The results cast also light on the dynamics of emerging and declining knowledge areas in the telecommunication industry. Our results prompt a consideration of the current status of established approaches to patent landscaping, such as key-word or technology classifications and other approaches relying on semantic labelling, in the context of novel machine learning approaches. Finally, we discuss implications for policy makers, and, in particular, for strategic management in firms.
Forecasting stock prices from limit order book using convolutional neural networks

In today's financial markets, where most trades are performed in their entirety by electronic means and the largest fraction of them is completely automated, an opportunity has risen from analyzing this vast amount of transactions. Since all the transactions are recorded in great detail, investors can analyze all the generated data and detect repeated patterns of the price movements. Being able to detect them in advance, allows them to take profitable positions or avoid anomalous events in the financial markets. In this work we proposed a deep learning methodology, based on Convolutional Neural Networks (CNNs), that predicts the price movements of stocks, using as input large-scale, high-frequency time-series derived from the order book of financial exchanges. The dataset that we use contains more than 4 million limit order events and our comparison with other methods, like MultiLayer Neural Networks and Support Vector Machines, shows that CNNs are better suited for this kind of task.
How can crowds be used in developing complex industrial products? An analysis of factors impacting the usefulness of crowdsourcing outcomes

Understanding how to plan and execute crowdsourcing challenges of complex industrial products is crucial for receiving useful information and knowledge from crowds. This qualitative single-case study was, thus, initiated to analyse the factors impacting the usefulness of crowdsourcing outcomes. The data were collected by means of semi-structured in-depth interviews with representatives of a crowdsourcing company and a crowdsourcing platform provider. From these data, a number of factors impacting the usefulness of information and knowledge acquired from crowdsourcing were identified, and their significances were evaluated, thereby increasing our understanding of value creation from crowdsourcing activities. The need for novel skills and competences was highlighted. Though more validation is needed to generalise these preliminary results, this study generates a new qualitative understanding of the use of crowdsourcing in the development of complex (new) product development.

Infrastructures, integration and architecting during and after digital transformation

In this paper we look at infrastructure and architecting challenges stemming from digital transformation of companies, which changes both their infrastructure and architectural work. Companies will use increasingly external digital infrastructures for their business operations and this will change both architecting and the role of architects. We outline challenges brought by using external digital infrastructures and finally propose research topics based on the identified changes in architectural practice.
Inter-organizational knowledge sharing barriers within an SME network: a case study

Introduction to part II: knowledge integration in networks

Kilpailuetua turvallisuudesta
Teollisuuden palveluntuottajarytmykset sekä heidän asiakkaansa edellyttävät yhä enemmän turvallisuuden eteen tehtyjä panostuksia. Monesti tarjouskilpailuun ei ole mahdollisuuksia päästä, jos turvallisuusasiat eivät ole kunnossa. Turvallisuusnäkökulmat on tarpeen huomioida jo palvelun kehitysvaiheessa, jotta palvelun toteuttaminen on
Limit Order Books and Liquidity around Scheduled and Non-Scheduled Announcements: Empirical Evidence from NASDAQ Nordic

Information arrivals may drive investors to require immediacy, generating sudden liquidity demand across multiple price levels in limit order books. We document significant intraday changes in stock limit order book characteristics and liquidity beyond the best levels around scheduled and non-scheduled company announcements. At aggregated level, liquidity beyond the best levels behaves quite differently from the bid–ask spread around scheduled announcements. Moreover, scheduled announcements improve multi-level liquidity to an exceptionally good level. We also provide evidence for pre-reactions in order books before non-scheduled announcements, which suggest the possibility of information leakage.
Management style, focus and purpose in development of lean in university hospital

Today’s rapid turmoil in economy caused by globalization and changes in world, has forced, leaders and managers in public institutions as well as private organizations to adapt and change their organizations’ cultures with their own management systems and styles. Different situational management theories and approaches are scrutinized in this study. Literature review focuses on management styles. This paper investigates classic approaches, management boundary conditions and possibilities that these approaches can give to leaders and managers. The ontology for management style was created in this study, and gives the preliminary frame for university hospital leaders when inspecting possibility to move to Lean management. This article points out to future research needs.

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Organisations: Industrial and Information Management, Turku University of Applied Sciences, Turku University Hospital
Authors: Reunanen, T., Maijala, R.
Number of pages: 13
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Publication date: 2017

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Volume: 594
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ASJC Scopus subject areas: Control and Systems Engineering, Computer Science(all)
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Source: Scopus
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Research output: Scientific - peer-review » Article

Managing business networks for value creation in facilities and their external environments: A study on co-location
Purpose: The purpose of this paper is to increase understanding of the logic of business network formation among the co-located and external actors of a facility. Design/methodology/approach: The research adopts a theory-building approach
through developing propositions inductively from the empirical case study on four purposefully sampled modern service station facilities. The focus is on analyzing how a facility and its inherent co-located actors represent an entity that forms a business network with external actors in the facility’s environment. Findings: The findings propose that when co-located with a large number of actors, the facility and its actors represent an entity that is connected to a wide business network of multiple external actors. On the other hand, when co-located with a small number of actors, the facility becomes a part of the overall supply in the surrounding business environment with a differentiated offering for competitive advantage. Practical implications: The research suggests that an appropriate co-locating strategy, for example, when planning the tenant mix of the facility, can contribute to creating a vivid business network in the external environment, which raises the facility to a role of a central entity in such a network. Originality/value: The findings explaining how co-location affects the businesses within the facility and within a wider networked environment are novel to the scholarly knowledge on co-location. The research bridges the theories of co-location and business networks that have been treated as separate discourses in previous research.

General information
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Ministry of Education publication type: A1 Journal article-refereed
Organisations: Industrial and Information Management
Authors: Artto, K., Ahola, T., Kyrö, R., Peltokorpi, A.
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Peer-reviewed: Yes

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Journal: Facilities
Volume: 35
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ISSN (Print): 0263-2772
Ratings:
Scopus rating (2016): SJR 0.421 SNIP 1.217 CiteScore 1.06
Scopus rating (2015): SJR 0.369 SNIP 1.028 CiteScore 0.84
Scopus rating (2014): SJR 0.447 SNIP 1.291 CiteScore 1.1
Scopus rating (2013): SJR 0.344 SNIP 1.184 CiteScore 0.73
Scopus rating (2012): SJR 0.361 SNIP 0.983 CiteScore 0.62
Scopus rating (2011): SJR 0.399 SNIP 0.734 CiteScore 0.66
Scopus rating (2010): SJR 0.339 SNIP 0.594
Scopus rating (2009): SJR 0.364 SNIP 0.701
Scopus rating (2008): SJR 0.446 SNIP 0.634
Scopus rating (2007): SJR 0.189 SNIP 0.368
Scopus rating (2006): SJR 0.305 SNIP 0.852
Scopus rating (2005): SJR 0.198 SNIP 0.29
Scopus rating (2004): SJR 0.188 SNIP 0.43
Scopus rating (2003): SJR 0.189 SNIP 0.466
Scopus rating (2002): SJR 0.195 SNIP 0.691
Scopus rating (2001): SJR 0.195 SNIP 0.688
Scopus rating (2000): SJR 0.187 SNIP 0.532
Scopus rating (1999): SJR 0.204 SNIP 1.037
Original language: English
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10.1108/F-07-2015-0049
Research output: Scientific - peer-review › Article

Master data management and its organizational implementation: an ethnographical study within the public sector
Purpose: Master data management (MDM) aims to improve the value of an organization’s most important data, such as customer data, by bridging the silos between organizational units and information systems. However, incorporating data management practices into an organization is not a simple task. The purpose of this paper is to provide a new understanding of the challenges in establishing and developing the MDM function within an organization.
Design/methodology/approach: This papers report an ethnographic study within a municipality. The data were collected from two consecutive MDM development projects over the time period of 32 months by observing MDM-related activities and interviewing appropriate actors. Observations, interviews, and impressions were documented to a diary that was later qualitatively analyzed. Various project documentation were also used. Findings: In total 15 challenges were identified. Seven of these were not identified earlier in the literature. New challenges included legislation-driven challenges, mutual understanding of master data domains, and the level of granularity for those domains. Eight issues, such as data owner
and data definitions, were MDM specific, others being more generic. All of the issues were identified as preconditions or as affecting factors for the others. Three of the issues were identified as pivotal. The issues emphasize strong alignment between the complex concept of MDM and the organization adopting it. Research limitations/implications: This research was based on a single qualitative case study, and caution should be exercised with regard to generalizations. The findings increase understanding about the complex organizational phenomena. The study offers public sector and private sector practitioners insights of the organizational issues that establishing a MDM function can encounter. Originality/value: The issues discovered in the research shed light on the strong alignment between the complex concept of MDM and the organization. The results of this study assist researchers in their endeavor to understand the organizational aspects of MDM, and to build theoretical models, frameworks, practices, and explanations.

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Authors: Vilminko-Heikkinen, R., Pekkola, S.
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Scopus rating (2014): SJR 0.417 SNIP 0.893 CiteScore 1.4
Scopus rating (2013): SJR 0.405 SNIP 1.163 CiteScore 1.68
Scopus rating (2012): SJR 0.472 SNIP 1.086 CiteScore 1.54
Scopus rating (2011): SJR 0.458 SNIP 1.108 CiteScore 1.53
Scopus rating (2010): SJR 0.457 SNIP 1.02
Scopus rating (2009): SJR 0.407 SNIP 0.808
Scopus rating (2008): SJR 0.533 SNIP 0.997
Scopus rating (2007): SJR 0.411 SNIP 0.613
Scopus rating (2006): SJR 0.216 SNIP 0.201
Scopus rating (2005): SJR 0.142 SNIP 0.128
Original language: English
DOIs: 10.1108/JEIM-07-2015-0070
Research output: Scientific - peer-review › Article

Mittareista lisäarvoa palveluiden kehittämiseen

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Ministry of Education publication type: D2 Article in professional manuals or guides or professional information systems or textbook material
Organisations: Industrial and Information Management, Research group: Center for Research on Operations Projects and Services, Research group: Center for Research on Operations Projects and Services
Authors: Jääskeläinen, A.
Pages: 23-27
Publication date: 2017

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Publisher: Xamk Kehittää 16, Kaakkois-Suomen ammattikorkeakoulu
Editor: Rajahonka, M.
ISBN (Print): 978-952-344-029-6
Links:
Research output: Professional › Chapter
Network visualisations of knowledge assets: Their value and user experiences for innovation development

This paper explores the value of network visualisations for presenting complex knowledge assets to executive decision-makers in order to develop culturally relevant insights for programme development. The value is first addressed with an analysis of network visualisation process called 'Ostinato', an operational context in relation to cognitive fit as a theoretical context. Then, value is explored with an analysis using taxonomy of interactive dynamics for visual analytics. Furthermore, evaluating the usability of visualisation is conducted in the context of the Parisian ecosystem, with board members using network visualisations to explore complex multi-layered knowledge about relationships among key executives, companies and financing organisations. All findings support the argument that value of knowledge assets in problem-solving performance depends on both format of the data and nature of the task. Furthermore, the findings support the importance of continual involvement and interaction between data analysts and decision-makers; they highlight the importance of considering knowledge assets as value drivers that can support knowledge-based innovation.

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Organisations: Industrial and Information Management, mediaX and H*STAR Stanford University Stanford, VTT Technical Research Centre of Finland
Authors: Russell, M. G., Still, K., Huhtamäki, J.
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Scopus rating (2015): SJR 0.217 SNIP 0.185 CiteScore 0.28
Scopus rating (2014): SJR 0.215 SNIP 0.149 CiteScore 0.3
Scopus rating (2013): SJR 0.289 SNIP 0.366 CiteScore 0.36
Scopus rating (2012): SJR 0.197 SNIP 0.131 CiteScore 0.3
Scopus rating (2011): SJR 0.246 SNIP 0.457 CiteScore 0.52
Scopus rating (2010): SJR 0.256 SNIP 0.374
Scopus rating (2009): SJR 0.611 SNIP 0.766
Scopus rating (2008): SJR 1.512 SNIP 1.332
Scopus rating (2007): SJR 0.491 SNIP 1.195
Scopus rating (2006): SJR 0.591 SNIP 1.545
Scopus rating (2005): SJR 0.282 SNIP 0.07
Scopus rating (2004): SJR 0.195 SNIP 0
Original language: English
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ASJC Scopus subject areas: Business and International Management, Management Science and Operations Research
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Source-ID: 85024102416
Research output: Scientific - peer-review › Article

New Product Development Project Managers as Actors: The Viewpoint of Management Accounting and Control

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Organisations: Managing digital industrial transformation (mDIT), Research group: Cost Management Center, Industrial and Information Management, Teaching and Learning Services
Authors: Laine, T., Korhonen, T., Suomala, P., Tervala, E.
Nordic workplace concept development from office as a city to city as an office

Purpose: The purpose of this paper is to describe, discuss and analyze forerunner cases from three different decades in workplace concept development in Sweden and Finland and discuss the transformation over time to better facilitate management of office development and disseminate Nordic experiences.

Design/methodology/approach: The reflecting paper is discussing the development of workplace concepts. It is based on case studies collected from 1980s to the new millennium. The reflection is based on the perspective of Nordic culture. The characteristics of the Nordic culture used in the paper are low power distance and individualism.

Findings: The evolution from “office as a city” to “city as an office” has taken place in both countries and Nordic cultural values have provided fruitful platform for them. However, the layer of organizational culture in the studied workplaces also has an impact on the development and implication of the concepts.

Research limitations/implications: The selection of case studies is limited to two Nordic countries only. The comparison of all five Nordic countries could increase the understanding of Nordic culture and similarities and differences between the countries. The study could be deepened by a more thorough literature review including not only Nordic but also European cases.

Practical implications: The dilemma of management when designing workspaces for the changing world is in that individuals increasingly choose where to work, when, with whom and how. Facilitating that freedom of choice is a balancing act in modern workspace design where people is a scarcer resource than space. It requires an active management that sees their facilities as a part of their system not as a costly box top put it in.

Social implications: Easy access seems to be the key to the workspace of the future when decision power shifts from organizations to individuals. Simultaneously, individuals need to take more and more responsibility and action to get their job done: the cases illustrate how this has been done and that the integration and interaction between office concepts and office work will need to be on business agendas.

Originality/value: The perspective of Nordic workplace concept development from 1980s provide the material for future development, without an understanding of the past one cannot understand the future.
On the basis of the sales engineering competences and education
Sales engineers (SE) sell technical products and services to companies. They consult the professional customer and suggest technically and economically feasible solutions with maximum utility for both the customer and their own company. They combine technical knowledge with commercial skills. They are best trained to understand the requirements of the industry. Nowadays there is no clear definition of the profession of a sales engineer. Sales engineering is a profession which includes at least as much skills than knowledge. This unique profession is a mixture of technical, sales, business, management and soft skills, internationalization included. Therefore traditional division between engineering, economics, management and other education does not seem to fit for sales engineering education and its needs. Since there is no definition for SE curricula, the state-of-the-art of the education has never been studied before. This article reveals the need for the sales engineers, introduces methods for the definition of the sales engineering education, and presents a state-of-the-art education from European perspective. Study proposes boundary limits for sales engineering education and gives a basic definition for sales engineers’ education. Future research actions and needs are addressed at the end of the article.

General information
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Ministry of Education publication type: A4 Article in a conference publication
Organisations: Industrial and Information Management, Turku University of Applied Sciences, ESTA School of Business and Engineering, Aschaffenburg University of Applied Sciences, Aalen University of Applied Sciences
Authors: Reunanen, T., Röhr, T., Holopainen, T., Schneider-Störmann, L., Görne, J.
Number of pages: 13
Pages: 160-172
Publication date: 2017

Host publication information
Title of host publication: Advances in Human Factors, Business Management and Leadership - Proceedings of the AHFE 2017 International Conferences on Human Factors in Management and Leadership, and Business Management and Society
Publisher: Springer Verlag
ISBN (Print): 9783319603711

Publication series
Name: Advances in Intelligent Systems and Computing
Volume: 594
ISSN (Print): 2194-5357
Keywords: AASE, Curricula, Education, Engineering, Sales, Sales engineer
ASJC Scopus subject areas: Control and Systems Engineering, Computer Science(all)
DOIs: 10.1007/978-3-319-60372-8_16

Bibliographical note
jufoid=75019
Source: Scopus
Source-ID: 85031290140
Research output: Scientific - peer-review > Conference contribution

Organizational effects of digitalization: A literature review
The effect of digitalization on organizations has been studied separately but there has been very little research done on the overall “big” picture of the effects. However, the digitalization of society and business is marching forward at an ever increasing speed, calling for more converged research on the phenomenon. The main areas of effects elicited from the literature are organizational learning, digital innovations, organizational agility, business ecosystems, and organizational structures. More minor influences have been gathered in the framework of digitalization presented in this article. It can be seen as a tool for managers to explore their organizations capabilities on the digitalization front.

General information
State: Published
Ministry of Education publication type: A2 Review article in a scientific journal
Organisations: Industrial and Information Management
Authors: Kuusisto, M.
Number of pages: 22
Pages: 341-362
Publication date: 2017
Peer-reviewed: Yes
Partnering in offshore drilling projects

Purpose: The purpose of this paper is to evaluate to which extent partnering practices observed in earlier research focussing on the construction industry are applied in offshore development drilling projects.

Design/methodology/approach: The paper reviews earlier research on project partnering and the relationship-based procurement (RBP) taxonomy. The taxonomy is then empirically applied to describe partnering practices in an incentive-based drilling project in Norway. Findings: Many elements of project partnering observed earlier in construction projects were found to characterize offshore development drilling projects. However, as assessed using the RBP framework, the authors found that partnering elements in observed context rated consistently lower than elements previously reported in the construction industry, indicating a lower maturity of partnering practices in the studied context. Practical implications: The present study provides a multi-dimensional and systematic description of partnering practices in offshore drilling projects. Project owners can utilize this information to identify partnering elements requiring particular emphasis when initiating and managing drilling projects. Based on the findings, such elements include transparency and open-book auditing, integrated risk mitigation and insurance practices and establishment of authentic leadership. The findings further imply that partnering models cannot be directly applied across industry boundaries but must be tailored to fit the salient characteristics of each context. Originality/value: The paper systematically describes to which extent specific partnering elements of the RBP taxonomy are applied in offshore drilling projects.
Perspectives on tools and applications supporting co-creation in knowledge work

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Industrial and Information Management, Research group: Knowledge and Learning Research Center
Authors: Okkonen, J., Vuori, V.
Number of pages: 7
Pages: 369-376
Publication date: 2017

Host publication information
Title of host publication: Proceedings of the 12th International Forum on Knowledge Asset Dynamics 2017 : 7-9 Jun. 2017, St. Petersburg, Russia
Links:
http://gsom.spbu.ru/en/events/event2017_06_09/
Research output: Scientific - peer-review » Conference contribution

ProcuValue Value Creating Procurement: Project Report
This project addressed the shift in purchasing from a "classical purchasing philosophy" reflecting a transaction-oriented approach to a "modern purchasing philosophy" highlighting longer supplier relationships and a strategic approach in managing supplies and the purchasing function. The current understanding of modern purchasing is limited and it is notably difficult to put the new ideas highlighting long-term value creation into practice. The aim of the project was to create new and widely applicable knowledge for managing strategic purchasing and supply management. It examined the viewpoints of both buyer and supplier. More specifically, this project investigated 1) the benefits of long-term purchasing, 2) the strategic capabilities of the purchasing function, 3) models, practices, and performance measures for modern PSM, and 4) supplier capabilities and the supplier-buyer relationship characteristics. This project had four case companies: Metsä Group, Posti Group Corporation, Tieto Oyj, and Valmet Corporation. All these companies are large multi-national companies operating in the business-to-business markets. The case companies represent the viewpoint of a buyer. The project started with a purchasing maturity analysis, which was carried out by a survey addressed to the case companies. It continued with an interview study, which paid more attention to specific aspects in purchasing: value creation, long-term orientation, and performance management. A supplier survey was conducted in the latter part of the study and addressed to more than 600 suppliers of the case companies. In addition, each of the cases had their own development projects with their respective objectives, schedules and methods. Different characteristics of long-term purchasing were identified, such as purchasing strategies highlighting close supplier partnerships, strategic technology choices, and purchasing related to long-term investments. A long-term approach to purchasing was found to offer benefits such as the utilization of supplier expertise and increased attractiveness among suppliers. The identified strengths of the purchasing functions studied were the skills of purchasing professionals to ensure the availability of purchased goods and services, the existence of a long-term purchasing strategy, documentation of a purchasing process, a link between purchasing and company strategy, and an awareness of the importance of purchasing in contributing to cost competitiveness. The most common development areas of purchasing included cross-functional integration between purchasing function and other functions such as product development, involvement of suppliers in product development, bundling of the supplies, and using and communicating of supplier evaluations. New models, practices and performance measures for contemporary purchasing and supply management were developed in the course of this study. In the case company Valmet, a new design-to-cost framework was developed in order to improve cross-functional and inter-organizational collaboration in product development. At Posti, an approach for measuring supplier partnerships was designed. In the case of Metsä Group, a framework for measuring supplier quality was developed. At Tieto, the idea of combining data from different functions was successfully presented and tested. The analysis of supplier capabilities and supplier-buyer relationship characteristics revealed that a foundation for a good buyer-supplier relationship does indeed exist. Suppliers appear to be capable when offering and implementing their solutions. However, integration between supplier and buyer frequently remains rather superficial. For example, true collaboration in product development is rare. Several avenues for future research in the field of PSM can be identified. There remains a need to better understand the benefits of long-term purchasing in terms of financial numbers as well as the mechanisms for creating the benefits. Further, there is a need to better understand when to search for long and close supplier relationships. Supplier satisfaction is a rising topic requiring more attention since buyer companies are increasingly competing for the most capable suppliers. Digitalization in purchasing and supply management is a topic gaining increasing attention and requiring more research in the future. There has already been lot of work in automating and digitalizing purchases. This project revealed a topical need for digital supplier portals, which centralize all the supplier information (e.g. costs, contracts, supplier offerings and their use in different business).

General information
State: Published
Samsung and Volkswagen crisis communication in Facebook and Twitter: A comparative study

Since September 2015 at least two major crises have emerged where major industrial companies producing consumer products have been involved. In September 2015 diesel cars manufactured by Volkswagen turned out to be equipped with cheating software that caused NO2 and other emission values to be reduced to acceptable levels while tested from the real, unacceptable values in normal use. In August 2016 reports began to appear that the battery of a new smart phone produced by Samsung, Galaxy Note7, could begin to burn, or even explode, while the device was on. In Nov. 2016 also 34 washing machine models were reported to have caused damages due to disintegration. In all cases, the companies have experienced substantial financial losses, their shares have lost value, and their reputation has suffered among consumers and other stakeholders. In this paper, we study the commonalities and differences in the crisis management strategies of the companies, mostly concentrating on the crisis communication aspects. We draw on Situational Crisis Communication Theory (SCCT). The communication behaviour of the companies and various stakeholders during crisis is performed by investigating the official web sites of the companies and communication in Twitter and Facebook on their own accounts. We also collected streaming data from Twitter where Samsung and the troubled smart phone or washing machines were mentioned. For VW we also collected streaming data where the emission scandal or its ramifications were mentioned and performed several analyses, including sentiment analysis.

General information

State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Industrial and Information Management, Jyväskylä Yliopisto, Laboratory of Industrial and Information Management
Authors: Zhang, B., Veijalainen, J., Kotkov, D.
Number of pages: 12
Pages: 312-323
Publication date: 2017

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Title of host publication: WEBIST 2017 - Proceedings of the 13th International Conference on Web Information Systems and Technologies
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ISBN (Electronic): 9789897582462
Keywords: Crisis communication strategies, Facebook, Samsung Galaxy Note 7 crisis, Samsung washing machine crisis, SCCT, Sentiment analysis, Twitter, Volkswagen emission crisis
ASJC Scopus subject areas: Computer Networks and Communications, Information Systems
DOI: 10.5220/0006301403120323
Source: Scopus
Source-ID: 85024486864
Research output: Scientific - peer-review › Conference contribution

Start-ups initiating business relationships: process and asymmetry

The purpose of this paper is to develop an understanding of how start-ups initiate business relationships and to identify the subprocesses that characterise business-relationship initiations in a start-up context. Design/methodology/approach The paper builds on business-relationship initiation models, develops a theoretical framework of relationship initiation and its subprocesses and, in a multiple-case study, applies this framework to seven relationship initiations by start-ups.
General information
State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: Industrial and Information Management, Research group: Center for Innovation and Technology Research
Authors: Aaboen, L., Aarikka-Stenroos, L.
Pages: 230-250
Publication date: 2017
Peer-reviewed: Yes

Publication information
Journal: The IMP Journal
Volume: 11
Issue number: 2
ISSN (Print): 2059-1403
Original language: English
DOIs: 10.1108/IMP-06-2015-0027
Research output: Scientific - peer-review › Article

Systematic literature review on enterprise architecture in the public sector

General information
State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: Industrial and Information Management
Authors: Dang, D. D., Pekkola, S.
Publication date: 2017
Peer-reviewed: Yes

Publication information
Journal: ELECTRONIC JOURNAL OF E-GOVERNMENT
Volume: 15
Issue number: 2
ISSN (Print): 1479-439X
Original language: English
Research output: Scientific - peer-review › Article

Tarinoita kansainvälistymisen poluilta: Pk-yrityksen kansainvälistyminen - onnistumisia ja haasteita

General information
State: Published
Ministry of Education publication type: D5 Text book, professional manual or guide or a dictionary
Organisations: Industrial and Information Management, Research group: Knowledge and Learning Research Center
Authors: Palomäki, K., Hakanen, T., Helander, N., Valkokari, K., Vuori, V.
Number of pages: 36
Publication date: 2017

Publication information
Place of publication: Espoo
Publisher: VTT
Original language: Finnish
Research output: Professional › Book

The adoption of green initiatives in logistics service providers-a strategic perspective
Logistics service providers (LSPs) have started to transform their operations and strategy to be more effective from a green perspective. One concern that is of particular interest of LSPs is how to create organisational green awareness and translate this into practice in their operations. The purpose of this paper is to investigate the roles of green strategic commitment and organisation in LSPs' adoption of green initiatives. The data for this study were collected through a questionnaire survey, investigating a sample of LSPs operating in the Swedish, Finnish and Italian markets. From the literature analysis, a set of testable hypotheses was developed. The results indicate that there are relationships between the nature, as well as the scope, of functional involvement and the green strategic priority. The results further suggest that the inclusion of environmental consideration in the overall business strategy is positively related to the involvement and coordination of multiple functions as well as existence of a separate environmental function.
The potential of management accounting and control in global operations: Profitability-driven service business development

Purpose: The purpose of this paper is to identify the financial potential of new service businesses in the context of a global machinery manufacturer. The objective is to examine the supportive role of management accounting (MA) and control in service business development, which has not been empirically examined previously. Design/methodology/approach: The paper takes advantage of an interventionist case study at a global machinery manufacturer and is empirically based on a comprehensive examination of the service business potential in the selected product category in different market areas. The researchers were actively involved in the accounting development activities underlying this paper. Findings: The results suggest that the development of a global service business is necessary to build on market area characteristics. An analysis should combine financial information and equipment fleet information across product lines and organizational units. Research limitations/implications: MA and control practices tend to require significant development to actually support the process of identifying and capturing the service business potentials. As the findings are limited to one case environment, further studies should address the longitudinal evolution of MA and control, and the choice and utilization of different performance measures, in similar contexts. Practical implications: The paper provides managerial insights on how to utilize MA information and proposes ideas for performance indicators. Originality/value: The process examined in this paper responds to the need for tools and techniques supporting service business development. MA and control could provide a comprehensive understanding of the dynamics of service business profitability potential and support in identifying and prioritizing the possible avenues of realizing such potential.

General information
State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: Industrial and Information Management, Research group: Cost Management Center, Managing digital industrial transformation (mDIT)
Authors: Lindholm, A., Laine, T., Suomala, P.
Pages: 496-514
The role of performance measurement in supplier-buyer value-creation

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Industrial and Information Management, Research group: Center for Research on Operations Projects and Services
Authors: Jääskeläinen, A., Thitz, O., Heikkilä, J.
Publication date: 2017

Host publication information
Title of host publication: Proceedings of 9th Conference on Performance Measurement and Management Control : 13-15 September 2017, Nice, France
Publisher: EIASM

Publication series
Name: Conference on Performance Measurement and Management Control
Publisher: EIASM
ISSN (Electronic): 2295-1660
Links:
http://www.eiasm.org/frontoffice/event_announcement.asp?event_id=1187#4844
Research output: Scientific - peer-review » Conference contribution

The use of performance measurement information in the work of middle managers
The purpose of this paper is to investigate how middle managers utilize performance measurement information in their work. More specifically, the study gives understanding on the impact of performance measurement, policies and procedures (formal controls), and individual intuition and experiential knowledge (informal controls) on strategy implementation and decision making. The study also identifies hindrances to the use of measurement information.
The study is carried out as a semi-structured interview study in Finnish companies representing five industries and 29 interviewees. Empirical data were analyzed deductively according to the research framework combining informal and formal management controls with two managerial processes.

This study contributes to the earlier literature by highlighting the usage of performance measurement information as opposed to developing new measures. In addition, the novelty value of the paper relates to the focus in the work of middle managers which has gained less attention in the previous research.

General information
State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: Industrial and Information Management, Research group: Center for Research on Operations Projects and Services
Authors: Jääskeläinen, A., Luukkanen, N.
Number of pages: 21
Pages: 479-499
Publication date: 2017
Peer-reviewed: Yes

Publication information
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ISSN (Print): 1741-0401
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Scopus rating (2016): SJR 0.607 SNIP 1.046 CiteScore 1.85
Scopus rating (2015): SJR 0.638 SNIP 1.371 CiteScore 2.08
Scopus rating (2014): SJR 0.421 SNIP 1.289 CiteScore 1.59
Scopus rating (2013): SJR 0.345 SNIP 1.003 CiteScore 1.28
Scopus rating (2012): SJR 0.294 SNIP 1.144 CiteScore 1.22
Scopus rating (2011): SJR 0.317 SNIP 0.71 CiteScore 1.2
Scopus rating (2010): SJR 0.344 SNIP 0.939
Scopus rating (2009): SJR 0.485 SNIP 1.214
Scopus rating (2008): SJR 0.5 SNIP 0.948
Scopus rating (2007): SJR 0.152 SNIP 0.184
Scopus rating (2006): SJR 0.118 SNIP 0.071
Scopus rating (2005): SJR 0.114 SNIP 0.079
Original language: English
Electronic versions:
PM utilized by middle managers
DOIs:
10.1108/IJPPM-02-2016-0043
Links:
http://urn.fi/URN:NBN:fi:tty-201704061261
Research output: Scientific - peer-review › Article

Time-series classification using neural bag-of-features

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Signal Processing, Industrial and Information Management, Research group: Business Data Research Group
Authors: Passalis, N., Tsantekidis, A., Tefas, A., Gabbouj, M., Kanniainen, J., Iosifidis, A.
Publication date: 2017

Host publication information
Publisher: European Association for Signal Processing EURASIP
ISBN (Electronic): 978-0-9928626-8-8
Links:
Using deep learning to detect price change indications in financial markets

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Industrial and Information Management, Research group: Business Data Research Group, Signal Processing
Authors: Tsantekidis, A., Passalis, N., Tefas, A., Kanniainen, J., Gabbouj, M., Iosifidis, A.
Publication date: 2017

Host publication information
Publisher: European Association for Signal Processing EURASIP
ISBN (Electronic): 978-0-9928626-8-8

Valkea kaupunki, mustat vedet

General information
State: Published
Ministry of Education publication type: A2 Review article in a scientific journal
Organisations: Civil Engineering
Authors: Juuti, P., Rajala, R.
Number of pages: 3
Pages: 15-17
Publication date: 2017
Peer-reviewed: Yes

Publication information
Journal: Vesitalous
Volume: 2017
Issue number: 1
ISSN (Print): 0505-3838
Original language: English
Links: http://www.vesitalous.fi/vesitalous-lehdet/vesien-historia/
Research output: Scientific - peer-review » Review Article

Value co-creation analysis in customer-supplier network relationships
In order to succeed in complex networks and tough competition, companies need to know their customers’ drivers for value creation better than competitors do. In addition, companies strive to analyze and measure which the most valuable customers are, in order to understand what value the company itself receives from its customers. The tool presented in this chapter provides a path toward understanding these issues. It provides insights on value co-creation in the customer–supplier boundary in network relationships; thus, it focuses on the dyadic level of interaction in a business network. The tool was tested in an ICT company which aimed to develop its customer relationship management process based on deeper understanding of the mutual value creation logic. The case includes empirical data from both the buyers’ (the customer side) and the supplier’s side.

General information
State: Published
Ministry of Education publication type: A3 Part of a book or another research book
Organisations: Industrial and Information Management, Research group: Novi
Value co-creation analysis in customer–supplier network relationships

In order to succeed in complex networks and tough competition, companies need to know their customers’ drivers for value creation better than competitors do. In addition, companies strive to analyze and measure which the most valuable customers are, in order to understand what value the company itself receives from its customers. The tool presented in this chapter provides a path toward understanding these issues. It provides insights on value co-creation in the customer–supplier boundary in network relationships; thus, it focuses on the dyadic level of interaction in a business network. The tool was tested in an ICT company which aimed to develop its customer relationship management process based on deeper understanding of the mutual value creation logic. The case includes empirical data from both the buyers’ (the customer side) and the supplier’s side.

General information
State: Published
Ministry of Education publication type: A3 Part of a book or another research book
Organisations: Industrial and Information Management, Research group: Knowledge and Learning Research Center
Authors: Helander, N., Vuori, V.
Number of pages: 12
Pages: 251-262
Publication date: 2017

Liikennejärjestelmän ja -hankkeiden kokonaisvaltainen arvointi
Transport system planning is constantly evolving. The need to evaluate urban environment and sustainable modes of transport have been recognised. Existing transport project appraisal methods have been developed to evaluate projects for long-haul transport. Current methods do not pay enough attention to urban environment. This report describes the current status of present methods of transport project appraisal based on interviews and a literature review. The report also introduces a new model to evaluate transport projects based on qualitative and strategy-based factors. This model is further developed into a comprehensive resource efficiency model of urban structure, which is presented in a WHOLE-project report to-be-published in 2017.

Land use and transport have a strong connection, which cannot be found in the existing methods of transport appraisal as they ignore the factors that are crucial in projects in urban environment. However, these methods are required to be used in urban projects that will receive funding from the government. The existing transport project appraisal methods, like cost-benefit analysis have other challenging factors like simplifying multi-dimensional aspects into monetary values and giving a high priority to the value of time. Several alternative methods are presented but they also have the issue of numerical valuation. No holistic model to evaluate transport projects have been provided as different factors cannot be prioritised in relation to each other. More holistic measures are required to evaluate the transport system as a whole instead of analysing different cases individually.

The qualitative transport project appraisal model presented in the report is developed to evaluate the projects according to the national and regional strategies and objectives. The model is divided into ten topics, which are urban structure,
economy and business, transport system, walking and cycling, public transport, car traffic, accessibility and reachability, environment, safety and security and health and wellbeing. These topics consist of questions based on strategies and objectives and different indicators and measures to provide the answer to these questions. In a strategy-based approach, the link between urban structure and land use is emphasized. This linkage is mostly ignored by current models. The model is used in cooperation with cost benefit analysis, which describes the financial factors of the project. The strategic model emphasises the holistic and qualitative factors. The model also provides a method for post evaluation as the same questions and measures can be used on the realized results of a project.

General information
State: Published
Ministry of Education publication type: D4 Published development or research report or study
Organisations: Department of Information Management and Logistics, Research group: Transport Research Centre Verne
Authors: Liimatainen, H., Viri, R., Haapamäki, R., Tainio, M.
Number of pages: 72
Publication date: 22 Dec 2016

Publication information
Publisher: Tampereen teknillinen yliopisto. Liikenteen tutkimuskeskus Verne.
Original language: Finnish

Publication series
Name: Tampereen teknillinen yliopisto. Liikenteen tutkimuskeskus Verne. Tutkimusraportti
Volume: 93
ISSN (Print): 2242-3486
Electronic versions:
Verne_tutkimusraportti93
Links:
Research output: Professional > Commissioned report

Educators' open educational collaboration online: The dilemma of emotional ownership
The open education movement has witnessed ups and downs from initial interest in transparency and openness, followed by a lack of reuse of open educational resources (OER) and the massive boost of interest in massive open online courses (MOOCs). This article addresses educators' online behaviors and perceptions regarding participation in collaborative development of OER in online settings. Using a data-driven approach to study educators' perceptions, this article presents multiple considerations for collaborative OER development and validates a new model explaining educators' intention to participate in collaborative action. The findings reveal the contradictory nature of emotional ownership of knowledge: a critical enabling factor for commitment and a barrier to knowledge exchange in an open and transparent manner. The findings also show how outcome expectations regarding increase in reputation and status in the network do not influence
the intention to share knowledge. Further interviews with idea-sharing platform users enable us to explain the favorable settings to resolve the dilemma of emotional ownership. The study contributes not only to further development of the open education movement but also to theory development of educators’ collaborative behaviors online.

General information
State: E-pub ahead of print
Ministry of Education publication type: A1 Journal article-refereed
Organisations: Department of Information Management and Logistics
Authors: Pirkkalainen, H., Pawlowski, J. M., Pappa, D.
Publication date: 13 Dec 2016
Peer-reviewed: Yes

Publication information
Journal: Computers & Education
ISSN (Print): 0360-1315
Ratings:
Scopus rating (2016): CiteScore 5.5 SJR 2.613 SNIP 3.193
Scopus rating (2015): SJR 2.939 SNIP 3.534 CiteScore 5.64
Scopus rating (2014): SJR 2.464 SNIP 3.306 CiteScore 4.57
Scopus rating (2013): SJR 2.529 SNIP 3.456 CiteScore 5.12
Scopus rating (2012): SJR 2.626 SNIP 3.184 CiteScore 4.57
Scopus rating (2011): SJR 2.329 SNIP 2.998 CiteScore 4.46
Scopus rating (2010): SJR 1.575 SNIP 2.352
Scopus rating (2009): SJR 1.331 SNIP 2.278
Scopus rating (2008): SJR 1.216 SNIP 2.829
Scopus rating (2007): SJR 1.27 SNIP 2.75
Scopus rating (2006): SJR 1.047 SNIP 2.585
Scopus rating (2005): SJR 0.702 SNIP 1.438
Scopus rating (2004): SJR 0.549 SNIP 1.599
Scopus rating (2003): SJR 0.68 SNIP 1.702
Scopus rating (2002): SJR 0.55 SNIP 1.732
Scopus rating (2001): SJR 0.683 SNIP 1.492
Scopus rating (2000): SJR 0.424 SNIP 1.116
Scopus rating (1999): SJR 0.358 SNIP 0.9
Original language: English
Keywords: Open educational resources, Knowledge exchange, Emotional ownership, Idea sharing, Virtual communities
DOIs:
10.1016/j.compedu.2016.12.005
Source: RIS
Source-ID: urn:D89F90A5FA5138FB2ADC1ED629C9F950
Research output: Scientific - peer-review › Article

Assessing business learning by analysing ERP simulation log files

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Department of Information Management and Logistics, Research group: Novi
Authors: Nisula, K., Pekkola, S.
Publication date: 10 Dec 2016

Host publication information
Title of host publication: AIS SIGED 2016 Conference on IS education and Research. : Dublin, Ireland, December 10-11, 2016
Place of publication: Dublin
ISBN (Print): 978-0-692-81119-1
Links:
http://cis2016.aisnet.org/ais-siged-international-conference-education-research/
Research output: Scientific - peer-review › Conference contribution
Purpose: Finnish government allowed high capacity transport (HCT) trucks to operate freely on Finnish roads in October 2013, although Finland already differed from most of the EU countries by using EU’s exemption to allow European modular system trucks (up to 60 tonnes and 25.25 meters long) to operate in national roads. This decision clearly differs from general European legislation (FinLex 4.12.1992/1257). The new regulation increased the maximum weight limit of trucks from 60 tonnes to 76 tonnes and the maximum height limit from 4.2 meters to 4.4 meters. The maximum length of trucks remained at 25.25 meters. In addition to this new regulation, Finland has allowed operators to test even larger (up to 104 tonnes and 34.5 meters long) HCT vehicle combinations with exemption permissions on certain roads. During the summer 2015, four transport operators operated with seven HCT combinations by using this exemption permission. In these trials vehicle combinations transported raw timber, laminated veneer lumber beams, long shipping containers and retail goods. (Lahti & Tanttu 2016) The purpose of this study is to analyse how new HCT trucks have affected the Finnish road freight transportation sector by focusing on the trucks that are 76 tonnes or lighter. The impacts of the new heavier and higher trucks are analysed via the development in energy efficiency, emissions and transportation volumes. The similar analysis has been done in 2013 before the new regulation came into force by the authors and this study also includes a comparison between the predicted impacts and the realised impacts (see Liimatainen & Nykänen 2014a).Thousands of HCT trucks, which are heavier than 60 tonnes and lighter than 76 tonnes, have been registered in Finland since the new regulation. Finnish transport operators have been interested in new heavier and higher trucks, but without effective use of increased load capacity potential benefits can not be achieved. Up to 76 tonnes HCT trucks have been permitted in Finnish roads since autumn 2013 and after two and a half year experiences it is possible to analyse how well transport companies have been able to utilize potential load capacity based on actual data.

Design/methodology/approach: The study presents a quantitative analysis where data from national road freight transport statistics from 2000 to 2015 are combined to the fuel consumption data from LIPASTO and NTM databases by using KAHMA - truck fleet management model (Liimatainen & Nykänen 2014b; Statistics Finland 2016). This time series allows
authors to analyse the impacts of new HCT trucks from about two and a half year time period and compare that development with historical development and the predicted impacts from the study from 2013. Vehicle registration information is gathered from the register information services of Finnish Transport Safety Agency and from the vehicle manufactures and importers. Furthermore, the impacts of the exemption permission HCT trucks are presented based on the existing Finnish literature (see Lahti & Tanttu 2016). Findings: In Finland transport operators have been widely interested in new higher and heavier vehicles and thus new regulation has been well adopted in terms of vehicle registration volumes. Shift from 60 tonnes to 76 tonnes offers more than one third increase in payload, which has encouraged transport companies to actively invest in new HCT trucks. Experiences from exemption permission pilots have also been positive and vehicles have been working without any significant problems (Lahti & Tanttu 2016).

Relevance/contribution: HCT trucks have been seen as one of the most effective solutions to improve the road freight efficiency. However, attitudes towards HCT trucks have strongly differed in national legislation between EU countries. (International Transport Forum 2016; OECD 2011; Sanchez Rodrigues et al. 2015) This study presents data analysis which provides actual data over the two year time period about the impacts of the HCT trucks operating on the Finnish road network. The results provide unique empirical input to the ongoing policy debate on high capacity transport. Keywords: high capacity transport, road freight transport, energy efficiency, CO2 emissions

General information
State: Published
Organisations: Department of Information Management and Logistics, Research group: Transport Research Centre Verne
Authors: Nykänen, L., Liimatainen, H.
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Keywords: HCT, road transport, Freight logistics, Energy efficiency, policy
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Reinventing organisational creativity and innovation through adapting a service-based working culture

General information
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Ministry of Education publication type: A3 Part of a book or another research book
Organisations: Department of Information Management and Logistics
Authors: Ketonen-Oksi, S.
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Editors: Schiuma, G., Lerro, A.
DOI: 10.4018/978-1-5225-2050-4
Research output: Scientific - peer-review › Chapter

Tieliikenteen kuljetusyritysten vastuullisuusmalli: Tiilaajachjeistus

The responsibility model being developed under the leadership of the Finnish Transport Safety Agency (Trafi) is a voluntary participation management and procedure model for road transport, for promoting responsibility in the road transport sector. The responsibility model is used to provide an incentive and support for transportation companies to adopt a proactive and knowledge-based management culture. The responsibility model covers various aspects of responsible road transport by taking into account the key security, quality and environmental issues of transportation companies and linking them with the companies’ finances. While the responsibility model has primarily been developed with transportation companies in mind, it also provides tools and operating models for communications and cooperation between the companies and transport clients.

Trafi has been developing the responsibility model for several years now. The first responsibility model development project carried out in cooperation with companies engaged in road-traffic goods transport was launched in 2013, as the result of which the core content and structure on which the responsibility model is built were created. In 2014, the development of the responsibility model continued in cooperation with goods transport companies. The actual tool for tracking responsibility and the sample forms for the responsibility model, as well as detailed instructions for transportation companies on how to use the responsibility model in their own operations, were created as the result of the first follow-up project.
The responsibility model development project for road-traffic passenger transport companies, during which the model was also expanded to cover road-traffic passenger transport, was launched in the autumn of 2015. The first series of actual expert interviews with transport clients were also conducted in conjunction with the project on the responsibility model for passenger transport. Road-traffic transport clients play such a central role in the development and promotion of responsibility that, in the autumn of 2016, Trafi launched a responsibility model instructions for clients project, for which this is the final report. The purpose of the project was to identify the most effective way for transport clients to use the responsibility model and to draw up the necessary instructions for them. A steering group was formed for the purposes of quality assurance and monitoring the project’s progress.

The steering group’s members are Sanna Ström, chairman (Trafi), Marke Lahtinen, secretary (Trafi), Mikko Västilä (Trafi), Arttu Laukonen (Trafi), Marko Rajamäki (Trafi), Ann-Mari Mäntylä (Trafi) and Lasse Nykänen (Tampere University of Technology/Verne Traffic Research Centre).

This report, which has five chapters, also includes a summary, at the end of the report, and an annex with the responsibility model user instructions for organisations which place orders for transports by road. Presented in the first two chapters of the report is background information on the development of the responsibility model and a description of the implementation of the study discussed in this final report. Chapters 3-5 discuss the perceptions of how transport clients are able to comply with the responsibility model and utilise it in their own operations, which were formed during the responsibility model projects and the literature review. The chapters also discuss the client organisations’ level of interest and commitment to enhancing responsibility within the road transport industry, and particularly on how to use the responsibility model for this.

**General information**
State: Published
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Organisations: Department of Information Management and Logistics, Research group: Transport Research Centre Verne
Authors: Nykänen, L., Viri, R.
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Älypölkky, radan monitorointi, kreosoottipölkyn korvaavat vaihtoehdot

General information
State: Published
Organisations: Civil Engineering, Research group: Track Structures
Authors: Luomala, H.
Publication date: 29 Nov 2016

Ballast bed

General information
State: Published
Organisations: Civil Engineering, Research group: Track Structures
Authors: Luomala, H.
Publication date: 24 Nov 2016

Näkökulma-kolumni: Putkiremontit kestävät aivan liian kauan

General information
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Organisations: Civil Engineering
Authors: Saari, A.
Publication date: 24 Nov 2016

Sleepers

General information
State: Published
Organisations: Civil Engineering, Research group: Track Structures
Authors: Luomala, H.
Publication date: 24 Nov 2016

http://www.rakennuslehti.fi/kirjoittajat/arto-saari/

Links:
Research output: Scientific › Other contribution
Enterprise Architecture Benefit Realization

In today's volatile business environment, organizations need to constantly reshape their operations. Enterprise Architecture (EA) is a promising approach to supporting organizational transformation and providing the necessary agility to respond to environmental changes. Consequently, it has received attention from both academia and industry. In particular, the practical aspects of creating and implementing EA have been addressed in previous research.

Many researchers claim that a multitude of benefits can be realized by EA. These include improved decision making, better alignment of business and IT, and reduced costs. However, the question of how EA creates benefits has received little attention. Only recently have a few models been published on the EA benefit realization process. This refers to a process consisting of several interacting constructs impacting the realization of benefits by EA in an organization, such as EA products (including architecture documentation, i.e., models), different kinds of EA utilization constructs, and social and cultural constructs. Nevertheless, the results are, to a large extent, contradictory and are presented on an abstract level. Consequently, there is no unified view of EA benefit realization.

This thesis focuses on understanding EA benefit realization, taking four different viewpoints on the phenomenon. First, the EA benefit realization process is described on a general level as a data-based model. Second, EA stakeholders are considered to uncover their interaction with EA and their EA-related concerns. Third, EA product and service use (including the utilization of, for example, architecture models and architectural support for development projects) is addressed to discover when, why, and to whom EA benefits actually emerge in practice. Fourth, the measurement of EA benefit realization is scrutinized to form the basis for rationalizing the EA approach and improving EA practice.

The thesis states that EA benefits are realized through a complex process involving several interconnected constructs. There are many stakeholders that interact in the process, having various and even conflicting concerns about EA. EA use is also a complex phenomenon that is heavily intertwined with EA stakeholders, EA products, and services. Concrete measures for the EA benefit realization process constructs are also proposed. The results can be used as a basis of further study, for example, validation of the proposed model. Recommendations for EA practice are also given.

The thesis is article-based and contains six articles. The empirical part of the study is based on a multiple qualitative case study in a large public organization.
Seeking New Ways of Innovating in Industry- Research Collaboration Practice

This chapter sheds light on the dynamics of innovation activity and its prerequisites for industry-research collaboration practice. It focuses on a particular intentional attempt to change the prerequisites of innovations. This new kind of research programme aimed to improve the competitiveness of the Finnish metals and engineering industry through enhancing innovations and industrial renewal. Three theoretical lenses were used in reflecting collaboration practice and learning in the programme. Two examples of changes in collaboration activity were presented and analysed within the broader context of the programme. The findings present how the characteristics of the programme and its management practices seemed to construct favourable conditions for co-innovating. The interpretations were founded on the reflections made by the four persons in charge of leading the programme. The chapter is concluded by summing up the results in terms of insight gained, as well as a general framework that aims to support practical efforts to create better prerequisites and conditions for industry-research collaboration in innovation activity.

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Organisations: Pori Department, Research group: Business Ecosystems, Networks and Innovations
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Number of pages: 27
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Research output: Scientific › peer-review › Chapter
The nexus between social media behaviour, negative consumer emotions and brand disloyalty

General information
State: Published
Organisations: Department of Information Management and Logistics, Research group: Novi, Managing digital industrial transformation (mDIT)
Authors: Jalonen, H., Jussila, J.
Publication date: 11 Nov 2016
Peer-reviewed: Unknown
Keywords: social media, Electronic word of mouth, negative emotions, brand disloyalty

Performance Measurement for Managing Welfare Services
Performance management of welfare services is a topical issue at the moment. Because of the major structural developments in society, versatile knowledge and new tools are needed to support the performance development and management of welfare services. This research aims to find out how the performance of welfare services can be measured and managed at different levels within a welfare service system. To achieve this goal, research questions in this dissertation examine the current state of performance measurement and management in Finnish welfare service organisations, how identified challenges related to managing and measuring performance in welfare service organisations can be overcome, and how performance management can be supported by the means of measurement in the welfare service system. The theoretical part of the research builds on different research streams focusing on performance measurement and management in welfare services.

This research can be characterized as a qualitative multiple case study. Research questions are studied through six research articles applying various research methods. Interviews and action research were the main methods employed. The empirical material of the research consists of data collected in six separate research projects related to performance measurement in welfare services at different levels of the service system. Altogether, 22 public, private and non-profit organisations operating in the welfare service sector participated the research. The most of participants provide social services.

This study contributes to prior research by providing a more holistic view of performance management and measurement by structuring performance measurement tasks at different levels within the welfare service system. This research suggests and applies practical performance measurement frameworks at different levels of the welfare service system. This research indicates that different aspects related to performance and performance management are focused as the level of analysis moves from organisations to the service system. In welfare service organisations, the focus is on the outcomes that the organisation seeks to provide to its clients and on the resources and processes needed to achieve those outcomes. As intangible aspects of the service provision are focused in welfare services, this research suggests intellectual capital management as an applicable perspective in managing performance in welfare service organisations. At the service system level, the focus shifts towards the longer-term effects on clients created by many organisations, thus extending performance measurement activities beyond the limits of just one organisation. At the service system level, the foremost managerial task relates to ensuring cost-effective service provision, which entails measuring the impacts of different service options and managing the effectiveness of service provision. This research suggests that impact measurement at the service system level should entail measuring the qualitative impacts created to clients and also measuring the quantitative and financial impacts to the service system. According to this research, the operationalization of concepts related to performance, user participation and outside support are focal factors that facilitate performance measurement efforts in welfare services, regardless of the level of analysis.

General information
State: Published
Ministry of Education publication type: G5 Doctoral dissertation (article)
Organisations: Department of Information Management and Logistics, Research group: Novi
Authors: Sillanpää, V.
Number of pages: 117
Publication date: 4 Nov 2016
Perceived risks in social media use – a longitudinal study among university students.

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Pori Department, Research group: Business Ecosystems, Networks and Innovations, Department of Information Management and Logistics, Research group: Novi, Managing digital industrial transformation (mDIT)
Authors: Aramo-Immonen, H., Jussila, J. J., Ilvonen, I., Helander, N.
Number of pages: 4
Pages: 777-780
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Keywords: social media, social media risks, knowledge management, E-Learning
DOI: 10.1145/3012430.3012606
Links: https://2016.teemconference.eu/
Research output: Scientific - peer-review » Conference contribution

Editorial to "The best papers from the 32nd International Symposium on Automation and Robotics in Construction and Mining (ISARC 2015)*

General information
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Ministry of Education publication type: B1 Article in a scientific magazine
Organisations: Department of Civil Engineering, Research group: Structural Fire Engineering, Univ of Oulu
Authors: Malaska, M., Heikkilä, R.
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Peer-reviewed: No

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Journal: Automation in Construction
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Scopus rating (2015): SJR 1.462 SNIP 2.464 CiteScore 4.03
Scopus rating (2014): SJR 1.501 SNIP 2.655 CiteScore 3.58
Scopus rating (2013): SJR 1.394 SNIP 3.035 CiteScore 3.44
Project change stakeholder communication
This action-based qualitative case study explores how the project communication routines affect stakeholder engagement during change management process and evolve project culture. With an inductive design, this research studies change communication practices in two different case contexts. The results underline the fact that an effective communication ensures stakeholder participation in the change management processes through teamwork and empowerment, whereas lacking communication routines lead to a rational and straightforward project culture where task performance and efficiency are preferred over stakeholder involvement. Theoretical results suggest that project communication planning requires more attention on the know-how of stakeholders than the current stakeholder evaluation models instruct.

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Organisations: Department of Civil Engineering, Research group: Construction Management, University of Vaasa (UVA)
Authors: Butt, A., Naaranoja, M., Savolainen, J.
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Publication date: 1 Nov 2016
Peer-reviewed: Yes

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Scopus rating (2014): SJR 1.443 SNIP 2.851 CiteScore 3.55
Scopus rating (2013): SJR 1.186 SNIP 2.651 CiteScore 3.11
Scopus rating (2012): SJR 1.11 SNIP 2.42 CiteScore 2.7
Scopus rating (2011): SJR 0.997 SNIP 2.228 CiteScore 2.57
Scopus rating (2010): SJR 1.17 SNIP 1.55
Scopus rating (2009): SJR 1.172 SNIP 1.749
Scopus rating (2008): SJR 0.926 SNIP 1.442
Scopus rating (2007): SJR 1.076 SNIP 1.63
Scopus rating (2006): SJR 0.88 SNIP 1.824
Boundary Objects as Part of Knowledge Integration for Networked Innovation

**General information**

State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: Pori Department, Research group: Business Ecosystems, Networks and Innovations
Authors: Mäenpää, S., Suominen, A. H., Breite, R.
Pages: 25-36
Publication date: 27 Oct 2016
Peer-reviewed: Yes

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Volume: 6
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Mäenpää_et_al_TIMReview_October2016
Links:
http://urn.fi/URN:NBN:fi:tty-201611084698
Research output: Scientific - peer-review › Article

Servitization in global business-to-business distribution: The central activities of manufacturers

Manufacturers' servitization development is a prevalent trend in the current business world. Companies then aim to increase customer closeness and complement product offerings with services. However, extant literature on distribution and marketing channels literature remains limited in terms of the implications of servitization for global business-to-business distribution. Therefore, this qualitative multiple case study identifies the central activities of servitizing manufacturers in global distribution. The study concludes with the following research propositions: Servitizing manufacturers develop global service portfolios and customize offerings according to local customer characteristics; build global operation models and adjust local service processes; ensure global brand coherence and design the customer experience according to local customer expectations; and create global value propositions and enhance local value co-creation with business customers. The study outlines managerial implications in terms of organizing global distribution. It also discusses new knowledge sharing and capability needs regarding solution sales, service provision and customer relationship management.

**General information**

State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: Department of Information Management and Logistics, Research group: Novi, Managing digital industrial transformation (mDIT)
Authors: Hakanen, T., Helander, N., Valkokari, K.
Publication date: 20 Oct 2016
Peer-reviewed: Yes
Co-design, co-teaching and co-learning in technology hands-on university tuition

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Department of Information Management and Logistics, Research group: Novi
Authors: Myllärniemi, J., Helander, N., Hellsten, P., Ilvonen, I.
Number of pages: 6
Pages: 153-158
Publication date: 17 Oct 2016

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Publisher: ACM
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DOI: 10.1145/2994310.2994329
Links: 
http://www.mindtrek.org/2016/academic/
Research output: Scientific - peer-review › Conference contribution

Identifying weak ties from publicly available social media data in an event
The concept of weak ties was introduced by Granovetter through the seminal paper titled "Strength of weak ties". Since then the role of weak ties in general and their specific role as occupying the structural hole has been explored in many different fields. In this study, we identify actual or potential weak ties using publicly available social media data in the context of an event. Our case study environment is community managers' online discussions in social media in connection to the yearly-organized Community Manager Appreciation Day (CMAD 2016) event in Finland. We were able to identify potential weak ties using the conversation based structural holes, making use of social network analysis methods (like clustering) and content analysis in the context of events. We add to the understanding of and useful data sources for the Strength of weak ties theory originated from Granovetter, and developed further by other researchers. Our approach may be used in future to make more sophisticated conference recommendation systems, and significantly automate the data
The 5C categorization of social media tools
Social media can offer potential business benefits in the company context. However, successful social media initiative calls for careful strategic planning and approaching social media tools as enablers for reaching a purpose. A categorization of social media tools is called for to help the strategic choices and evaluation between the tools. To date, no coherent classification exists, and those suggested approach social media tools from a substantival perspective of what a tool is. From strategical planning viewpoint it is more practical to take the functional perspective of what a tool does. In this paper, we present a framework for categorizing social media tools by the actions they enable. The 5C categorization is based on the actions enabled by the social media tools: communicating, collaborating, connecting, completing, and combining. In order to demonstrate how the 5C categorization can be used as a framework to assess social media tools we conducted an empirical study of social media based crowdsourcing platforms in business-to-business setting. The 5C categorization can be utilized in planning a social media strategy as it forwards the understanding of which tools are suitable for certain purpose and provides a scheme to evaluate and compare different social media tools and applications.
and success factors in RMTI creation. A qualitative study was conducted with manufacturing firms located in Finland, whereby 23 different exemplary cases of RMTI were explored. Success factors are revealed in supplier firm competence, expert resourcing, good pre-planning and early feedback, and coordination.

General information
State: Published
Ministry of Education publication type: B3 Non-refereed article in conference proceedings
Organisations: Industrial and Information Management, Research group: Center for Research on Operations Projects and Services
Authors: Chaoji, P., Martinsuo, M.
Number of pages: 3
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http://urn.fi/URN:NBN:fi:itty-201612214891
Research output: Scientific Conference contribution

Assessing Regional Cooperation in Water Services: Finnish Lessons Compared With International Findings
Water services, that is, water supply and wastewater disposal, are traditionally the responsibility of local governments. Many municipalities have joined forces to meet the challenges of increasing water quality requirements, aging infrastructures, and decreasing fiscal resources. Regional cooperation is claimed to generate benefits in various ways, but there are challenges to this assumption. This article assesses the benefits and challenges of regional cooperation through the following categories: economies of scale, socioeconomic and spatial disparities, autonomy and legitimacy, by comparing Finnish experiences with previous research findings. Our assessment concludes that the benefits and challenges of regional cooperation are not straightforward, not only dependent on the local context but also on the level and tradition of cooperation, especially on the degree of organizational autonomy.

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State: Published
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Organisations: Department of Civil Engineering
Authors: Kurki, V., Pietilä, P., Katko, T.
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Scopus rating (2014): SJR 0.36 SNIP 0.776 CiteScore 0.4
Scopus rating (2013): SJR 0.39 SNIP 0.699 CiteScore 0.32
Scopus rating (2012): SJR 0.407 SNIP 0.418 CiteScore 0.37
Scopus rating (2011): SJR 0.375 SNIP 0.646 CiteScore 0.37
Scopus rating (2010): SJR 0.264 SNIP 0.953
Scopus rating (2009): SJR 0.102 SNIP 0
Scopus rating (2008): SJR 0.105
Scopus rating (2007): SJR 0.122
Scopus rating (2005): SJR 0.101 SNIP 0
Scopus rating (2004): SJR 0.1 SNIP 0.092
Learning by playing: A cross-sectional descriptive study of nursing students' experiences of learning clinical reasoning

Background Clinical reasoning is viewed as a problem-solving activity; in games, players solve problems. To provide excellent patient care, nursing students must gain competence in clinical reasoning. Utilising gaming elements and virtual simulations may enhance learning of clinical reasoning. Objectives To investigate nursing students’ experiences of learning clinical reasoning process by playing a 3D simulation game. Design Cross-sectional descriptive study. Setting Thirteen gaming sessions at two universities of applied sciences in Finland. The prototype of the simulation game used in this study was single-player in format. The game mechanics were built around the clinical reasoning process. Participants Nursing students from the surgical nursing course of autumn 2014 (N = 166). Methods Data were collected by means of an online questionnaire. Results In terms of the clinical reasoning process, students learned how to take action and collect information but were less successful in learning to establish goals for patient care or to evaluate the effectiveness of interventions. Learning of the different phases of clinical reasoning process was strongly positively correlated. The students described that they learned mainly to apply theoretical knowledge while playing. The results show that those who played digital games daily or occasionally felt that they learned clinical reasoning by playing the game more than those who did not play at all. Conclusion Nursing students’ experiences of learning the clinical reasoning process by playing a 3D simulation game showed that such games can be used successfully for learning. To ensure that students follow a systematic approach, the game mechanics need to be built around the clinical reasoning process.
Comparison of community managed projects and conventional approaches in rural water supply of Ethiopia

This study aimed to compare Community Managed Projects (CMP) approach with the conventional approaches (Non-CMP) in the case of Ethiopia. The data collection methods include a household survey (n=1806), community representative interviews (n=49), focus group discussions with district water experts (n=48) and observations of water systems (n=49). The data were collected from seven districts of two regions of Ethiopia. The study shows that CMP have a better platform to involve the community than non-CMP. In terms of reducing distances to water points, all approaches succeeded. However, the intended amount of water supplied is not achieved in all the cases: only 25% of CMP users and 18% of non-CMP users are able to get water according to the national standard, 15 L per capita per day. Fee collection in the approaches has a high disparity in favour of CMP. To keep long-lasting services, three requirements need to be particularly fulfilled: quantity, quality and accessibility.

General information
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Ministry of Education publication type: A1 Journal article-refereed
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Authors: Behailu, B. M., Suominen, A., Katko, T. S., Mattila, H., Yayehyirad, G.
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DOIs:
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Links:
http://urn.fi/URN:NBN:fi:ttty-201608164415
Links:
http://www.academicjournals.org/journal/AJEST/article-full-text-pdf/04AF23059936
Research output: Scientific - peer-review › Article
Developing a conceptual model for the relationship between social media behavior, negative consumer emotions and brand disloyalty

Companies have been facing the dark side of social media. Particularly, the odds of customer complaints and brand insults have increased tremendously. Social media has given a voice to disappointed consumers. They use the voice when they feel negative emotions, for example, due to product failures, service problems or unethical behavior. It seems reasonable to expect that the more ubiquitous social media becomes, the more it persuades people to share also their negative experiences. However, although social media raises new challenges for companies, it also gives them new opportunities. Social media enables companies to trace disappointed customers, evaluate their impressiveness and communicate with them. The conceptual paper aims to develop a model for the relationship between social media behavior, negative consumer emotions and brand disloyalty. The argument of this paper is that although social media gives consumers more power which is manifested in sharing negative emotions related to the company, the effect this has on brand disloyalty depends on the company's behavior.
**Students as mystery shoppers: lowering knowledge sharing barriers in higher education**

This empirical research paper focuses on discussing potential knowledge sharing barriers volunteering students as mystery shoppers perceived in the context of higher education. More specifically, the focus is on students’ ideas on finding solutions to lowering individual knowledge sharing barriers, i.e. improving the quality of their instruction.

Mystery shopping is a method of observing service performance from the user, or customer, perspective and it has been widely used to evaluate the overall service quality within service businesses. Using empirical data from students volunteering as mystery shoppers appears not as a widely used research and development tool.

Moreover, there is little context-specific research on learning and teaching in such a knowledge intensive community like a university from the perspective of knowledge management (KM). KM offers thus a useful approach for analysing learning and teaching, as well as improving the processes of knowledge creation.

A Finnish technical university and its student union organised a mystery shopping project with 45 student participants. They observed their learning experiences for six weeks in order to complement data from other sources. The students kept a casual theme-based diary on four larger topics: teaching staff and teaching (including pedagogical competence and teaching culture, instruction and guidance, course arrangements), students and the learning culture, student services and learning environment. The initial goal of the project was to add a student voice on the processes of developing learning and teaching in higher education.

The research approach represents qualitative content analysis in which knowledge-sharing barriers were first recognised from the qualitative mystery shopper data. Next those instances where the students offered their solution to lowering that barrier were selected for further analysis. The results identify learner suggestions that may contribute to lowering knowledge sharing barriers. Result also indicate that individual knowledge sharing barriers as described in the literature appear to be valid in a higher education setting.

**General information**

State: Published  
Ministry of Education publication type: A4 Article in a conference publication  
Organisations: Language Centre  
Authors: Tukiainen, M. O.  
Publication date: 13 Sep 2016

**Host publication information**

Title of host publication: 44th Annual Conference Of The European Society For Engineering Education: 12-15 September 2016, Tampere, Finland  
Place of publication: Tampere  
ISBN (Electronic): 978-2-87352-012-0  
ASJC Scopus subject areas: Education  
Links:  
Research output: Scientific › peer-review › Conference contribution

**Methods for identifying and measuring the performance impacts of work environment changes**

Purpose: The purpose of this paper is to introduce and evaluate methods for analysing the impacts of work environment changes. New working practices and work environments present the potential to improve both the productivity and the wellbeing of knowledge workers, and more widely, the performance of organisations and the wider society. The flexibility offered by information and communication technology has influenced changes in the physical environment where activity-based offices are becoming the standard. Research offers some evidence on the impacts of work environment changes, but studies examining methods that could be useful in capturing the overall impacts and how to measure them are lacking.

Design/methodology/approach: This paper concludes research of the last five years and includes data from several organisations. The paper presents and empirically demonstrates the application of three complementary ways to analyse the impacts of knowledge work redesigns. The methods include: interview framework for modelling the potential of new ways of working (NWoW); questionnaire tool for measuring the subjective knowledge work performance in the NWoW context; and multidimensional performance measurement for measuring the performance impacts at the organisational level. Findings: This paper presents a framework for identifying the productivity potential and measuring the impacts of work environment changes. The paper introduces the empirical examples of three different methods for analysing the impacts of NWoW and discusses the usefulness and challenges of the methods. The results also support the idea of a measurement process and confirm that it suits NWoW context. Practical implications: The three methods explored in this study can be used in organisations for planning and measuring work environment changes. The paper presents a comprehensive approach to work environment which could help managers to identify and improve the critical points of knowledge work. Originality/value: Changes in the work environment are huge for knowledge workers, but it is still unclear whether their effects on performance are negative or positive. The value of this paper is that it applies traditional measurement methods to NWoW contexts, and analyses how these could be used in research and management.
Integrating mobile orienteering to team forming activity in a software engineering course

One of the most important skills software engineers need when entering work life is working in teams, including communicating, collaborating, as well as coordinating work in a team. This paper presents a team building activity aiming to support the first phases of team formation with a mobile orienteering activity. Created tasks at orienteering checkpoints were related to communication, collaboration and work division. Students were enthusiastic about the activity and expressed in their group reports on the activity that it supported the team building activity well, helped break the ice and supported agreeing the ways of working. Students also liked getting out of the classroom. The approach seems promising and we will investigate in the future similar type of activities in the first phases of team formation as well as will explore further integrating physical activity to the exercise sessions.

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Department of Pervasive Computing, Research area: User experience
Authors: Väätäjä, H., Ahtinen, A.
Publication date: Sep 2016

Host publication information
Title of host publication: SEFI 2016 Annual Conference Proceedings : Engineering Education on Top of the World: Industry University Cooperation
Publisher: European Society for Engineering Education SEFI
ISBN (Electronic): 9782873520144
Keywords: soft skills, engineering skills, collaboration, Team working, group forming, mobile orienteering, team forming
Research output: Scientific - peer-review › Conference contribution

Combining mineral fractions of recovered MSWI bottom ash: improvement for utilization in civil engineering structures

In real-life construction projects, the utilization of different types of waste derived aggregates can often be falsely considered as utilization, but in fact, it is merely dumping the potentially high value material from one site to another. For example, building highway noise barriers with waste derived aggregates cannot be considered as utilization. In this study, a more advanced approach was chosen in order to create aggregate like products from recovered municipal solid waste incineration (MSWI) bottom ash (BA) and thus potentially increase their value and image in civil engineering applications.

MSWI BA from one waste incineration plant in Finland was first treated with a Dutch dry treatment technology called ADR (Advanced Dry Recovery). This process separates non-ferrous and ferrous metals from MSWI BA and generates mineral fractions of different grain sizes. These mineral fractions may not be used separately, for example, in the unbound structural layers of roads due to the strict grain size distribution requirements of these civil engineering structures. Hence, different combinations were designed from these BA mineral fractions using the mathematical proportioning of aggregates.

The aim was to create aggregate like products from this waste material for different structural layers (filtration, sub-base and base) of, for example, road and field structures. Three mixtures were chosen based on their correspondence to the grain size distribution requirements of natural aggregates and further analyzed in the laboratory from their technical, mechanical and environmental point of view. The leaching of chrome (Cr) and chloride (Cl-) exceeded the Finnish emission boundary values for utilization of certain types of ashes in civil engineering. On the other hand, the technical and mechanical properties of these mixed bottom ash products were considered suitable to be used, for example, in the unbound structural layers of the interim storage field in a waste treatment center. In such location, also the leaching potential of harmful substances can be further studied and verified in a larger scale.

General information
State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: Department of Civil Engineering, Research group: Earth Constructions, Research area: Earth and Foundation Structures
Authors: Sormunen, L. A., Kalliainen, A., Kolisoja, P., Rantsi, R.
Number of pages: 12
Publication date: 22 Aug 2016
Peer-reviewed: Yes
Digiselvitys 2016: Digitaalisuuden nykytila ja kehityssuunnat kiinteistö- ja rakennusalan

General information
State: Published
Ministry of Education publication type: D4 Published development or research report or study
Organisations: Department of Information Management and Logistics, Research group: Novi, Department of Civil Engineering, Research group: Construction Management, Research group: Construction Processes, Tampere University of Technology, BES Built Environment Services Oy
Authors: Puhto, J., Snellman, S., Gussander, J., Kärkkäinen, H., Pekkanen, J.
Number of pages: 35
Publication date: 12 Aug 2016

Publication information
Place of publication: Tampere
Publisher: Tampereen teknillinen yliopisto. Rakennustekniikan laitos
Original language: Finnish

Publication series
Name: Tampereen teknillinen yliopisto. Rakennustekniikan laitos. Rakennustuotanto ja -talous. Raportti
Volume: 19
ISSN (Print): 1797-8904
Electronic versions:

Digiselvitys 2016
Research output: Professional › Commissioned report

Enterprise Architecture Benefit Realization: Review of the Models and a Case Study of a Public Organization

In recent years, Enterprise Architecture (EA) has been of interest to both researchers and practitioners. However, EA benefit realization has not been focused on much. Even though a few studies have addressed the subject, the results are somewhat fragmented and are subjected to limited empirical validation, particularly from the viewpoint of different theoretical constructs and their interrelations in the benefit realization process. To understand how the EA benefits accumulate and how related constructs influence each other, we propose a model and criteria for analyzing the explanatory power of the existing EA benefit realization models. Our model emerged from the data of a qualitative case study with 14 semi-structured EA stakeholder interviews. The results support earlier findings, thereby contributing to the enhancement of the relevance and generalizability of the constructs present in previous studies. However, the results also indicate that no existing EA benefit realization model fully captures the complex process of EA benefit realization. Our findings highlight the following: the importance of EA process quality; EA service quality and supportive social environment; constructs that have received less attention in previous studies.

General information
State: Published
How can FM service providers improve their service delivery through value co-creation?

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Department of Civil Engineering
Authors: Petrušaitienė, V., Rytkönen, E., Nenonen, S.
Number of pages: 10
Pages: 79-88
Publication date: 1 Aug 2016

Host publication information
Title of host publication: Facilities management research and practice: does FM contribute to happiness in Nordic countries? : CFM Second Nordic Conference, 29-30 August 2016, Lyngby, Denmark
Publisher: Technical University of Denmark
Editor: Anker Jensen, P.
ISBN (Electronic): 978-87-502-1104-4
Keywords: FM services, Workplace, Knowledge workers, Value co-creation
Links:
Source: Bibtex
Source-ID: urn:52bdd37d98463ae0d8e8b47164c24353
Research output: Scientific - peer-review › Conference contribution

Third places and user preferences – affordances in the cities

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Department of Civil Engineering
Authors: Nenonen, S., Rahtola, R., Kojo, I.
Number of pages: 9
Pages: 17-25
Publication date: 1 Aug 2016

Host publication information
Title of host publication: Proceedings of CFM's Second Nordic Conference: Facilities Management Research and Practice; : 29-30 AUGUST 2016, Denmark
Editor: Jensen, P. A.
ISBN (Print): 9788750211044
Keywords: workspace management, new ways of working, discourse, typologies, spatial transformation
Links:
A laboratory listening experiment on subjective and objective rating of impact sound insulation of concrete floors

General information
State: Published
Ministry of Education publication type: B3 Non-refereed article in conference proceedings
Organisations: Department of Civil Engineering, Research group: Building Acoustics, Turku University of Applied Sciences
Authors: Kylliäinen, M., Hongisto, V., Oliva, D., Rekola, L.
Number of pages: 9
Pages: 894-902
Publication date: Aug 2016

Host publication information
Title of host publication: Proceedings of the INTER-NOISE 2016, 45th International Congress on Noise Control Engineering: Towards a Quieter Future, August 21-24, 2016, Hamburg, Germany
Place of publication: Hamburg
Publisher: German Acoustical Society (DEGA)
Article number: 193
ISBN (Electronic): 978-3-939296-11-9
Links:
http://pub.dega-akustik.de/IN2016/data/articles/000193.pdf
http://www.internoise2016.org/
Research output: Scientific › Conference contribution

A method for design of sound insulation of glazed balconies against traffic noise

General information
State: Published
Ministry of Education publication type: B3 Non-refereed article in conference proceedings
Organisations: Department of Civil Engineering, Research group: Building Acoustics, A-Insinöörit Suunnittelu Oy
Authors: Kovalainen, V., Kylliäinen, M., Huhtala, T.
Number of pages: 8
Pages: 3834-3841
Publication date: Aug 2016

Host publication information
Title of host publication: Proceedings of the INTER-NOISE 2016, 45th International Congress and Exposition on Noise Control Engineering: Towards a Quieter Future, August 21-24, 2016, Hamburg, Germany
Place of publication: Hamburg
Publisher: German Acoustical Society (DEGA)
Article number: 503
ISBN (Electronic): 978-3-939296-11-9
ASJC Scopus subject areas: Acoustics and Ultrasonics
Links:
http://pub.dega-akustik.de/IN2016/data/articles/000503.pdf
http://www.internoise2016.org/
Research output: Scientific › Conference contribution

A manager's means to motivate experts at work
Motivated employers are vital for all companies. Motivation can be affected by using extrinsic and/or intrinsic motivators. However, intrinsic motivators offer more versatile options and are significantly more efficient. Intrinsic motivation is especially important to experts. Managers can affect and develop the motivation of experts in several ways. The results of this survey are in line with motivation theories. The study highlighted work satisfaction and significance and importance of work. The opportunity to plan and complete work tasks are considered important. The personnel want to have the kinds of duties that give them satisfaction and feelings of progress, achievement and success. Constructive feedback also surfaces as an issue.

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Space is a vital element in a system for the development of anything, as it defines the freedom needed to evolve, mature, and contribute. Lack of space is lack of freedom, which means lack of progress and development. Organizations are systems that are obliged to give space to new management and leadership initiatives. The Company Democracy Model, presented in this paper, is based on the space given to people to act in a democratic environment where ideas lead to meritocracy, valid knowledge, innovation, competitiveness, extroversion, and other benefits and ideals. Democracy, on the other hand, can be annoying to those resisting and reducing the space, freedom, and opportunity that people deserve to be judged upon. The paper presents numerous reasons why organizations fail to learn from their mistakes, and provides a democratic co-evolutionary and co-opetitive framework that can significantly contribute to organizational development, as long as a minimum of space is given to freedom of speech and communication.
Schedule health assessment of construction projects

Several factors can contribute to the success of construction projects. A sound and good quality construction schedule is considered to be one of them. The quality of schedules has been a research topic only for a few efforts and amongst them construction-oriented research is even more rare. Methodical grounds for assessing schedule quality have been studied via literature study for the development of appropriate solutions to assess the quality of construction schedules. These findings combined with the experiences from practical implementations have resulted in the definition of a metric to measure schedule quality for construction projects. It includes 75 schedule requirements classified into 5 groups: general requirements, construction process, schedule mechanics, cost and resources and control process. This structure forms a core for the developed method to assess construction schedule quality termed as Schedule Health Assessment. The developed method has also the purpose of assisting project planners to produce and maintain good quality schedules starting from the project initiation until its completion, as via using the method to detect deficiencies of project schedules and other critical issues having importance with respect to schedule maintenance.
Experienced risks in social media use – longitudinal study among university students

Several recent studies indicate that there is a need for increased use of ICT and social media in the Finnish education [1], [2]. This research was conducted in order to explore the attitude towards social media use among university students. The motivation for seeking answer to the research question: “What risks students experience in social media use?” derived from the need to discover learning barriers in social media based learning environments. In particular, there is a need for novel interaction means in order to co-create and learn informally [3] also beyond the traditional classroom. The assumptions, beliefs and attitudes towards social media are studied from the perspective of perceived risks of the students. The study was conducted among graduate students attending “Communities and Social Media in Knowledge Management” course between the years 2012-2016. A web-based survey was executed annually, with a total of 113 respondents. Based on the results we were able to categorize the perceived risks and derive implications on how to lower learning barriers of students in social media based learning environments.

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Department of Information Management and Logistics, Research group: Novi, Pori Department, Research group: Business Ecosystems, Networks and Innovations, Managing digital industrial transformation (mDIT)
Authors: Jussila, J., Aramo-Immonen, H.
Number of pages: 6
Pages: 1255-1260
Publication date: 4 Jul 2016

I feel great - university students affective experiences on learning and teaching

According to Kolb [1], experience is the source of learning and development. This is a statement that serves as the starting point of this study. We argue that the role of affective experiences cannot be overlooked when evaluating university learning and teaching. In the present paper, we will study students’ affective experiences in higher education setting, specifically in engineering education in a technological university. The perceived affective experiences are empirically analysed through a mystery shopper data set, which was gathered in the case university by a group of students. The study bases theoretically on affective experiences framework, more familiar from the consumer behaviour research stream. The aim of the study is to analyse what kinds of affective experiences students recognise when studying in a technical university and further to elaborate, how these affective experiences could be used to increase student engagement and the students’ motivation to learn. The study provides an innovative approach to university learning and teaching by applying mystery shopper method and affective experience approach from more businessoriented disciplines. The contribution to education science is the increased understanding of the role of affective experience in learning.

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Language Centre, Department of Information Management and Logistics, Research group: Novi, Managing digital industrial transformation (mDIT)
Authors: Tukiainen, M., Helander, N., Hellsten, P., Jussila, J., Myllämiemi, J., Boedeker, M.
Towards a maturity modeling approach for the implementation of industrial Internet

This Research-in-Progress paper facilitates the design and provides guidelines for the development of a maturity model to achieve a coordinated, systematic and stepwise adoption of industrial internet, thus enabling the industrial internet to be used to its full potential in manufacturing enterprises. Using analogous maturity models from the fields of supply chain management and product lifecycle maturity among others, this paper explains why a maturity model approach would facilitate the step-by-step implementation of industrial internet. The paper goes on to provide systematic design guidelines for industrial internet maturity model for mass production manufacturing industries which use heavy equipment. The detailed research design presented here uses ADR methodology to enable the construction of the ensemble artefact. The industrial internet maturity model will be tested, developed and validated using the experience-based feedback from industrial practitioners. This will enable the industry to plan a roadmap to assess the current situation and define the direction for the future development of industrial internet related activities and business models for industry.

Knowledge integration method development for multi-stakeholder innovation

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Pori Department, Research group: Business Ecosystems, Networks and Innovations
Authors: Mäenpää, S., Suominen, A., Breite, R.
Enablers and Restraints of Knowledge Work – Does profession make a difference?

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Department of Information Management and Logistics, Research group: Novi
Authors: Helander, N., Okkonen, J., Vuori, V., Paavilainen, N., Kujala, J.
Number of pages: 13
Pages: 40-52
Publication date: 10 Jun 2016

Host publication information
Title of host publication: Towards a new architecture of knowledge: Big Data, culture and creativity: IFKAD 2016-11th International Forum on Knowledge Asset Dynamics, Dresden 15-17.6.2016, Germany
ISBN (Print): 978-88-96687-09-3
Links:
http://10times.com/ifkad
Research output: Scientific - peer-review › Conference contribution

A Customer's Possibilities to Increase the Performance of a Service Provider by Adding Value and Deepening the Partnership in Facility Management Service
Reliable and good suppliers are an important competitive advantage for a customer and that is why the development of suppliers, improvement of performance and enhancement of customership are also in the interest of the customer. The purpose of this study is to clarify a customer's possibilities to increase the performance of a service provider and to develop the service process in FM services and thus help to improve partnership development. This research is a qualitative research. The research complements the existing generic model of supplier development towards partnership development by customer and clarifies the special features that facility management services bring to this model. The data has been gathered from interviews of customers and service providers in the facility management service sector. The result is a model of customers' possibilities to develop the performance of service providers from the viewpoint of value addition and relationship development and in that way ensure added value to the customer and the development of a long-term relationship. The results can be beneficial to customers when they develop the cooperation between the customer and the service provider toward being more strategic and more partnership focused.

General information
State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: Department of Civil Engineering, Research group: Construction Processes, University of Vaasa
Authors: Sillanpää, E., Junnonen, J., Sillanpää, I., Saari, A.
Number of pages: 12
Pages: 50-61
Publication date: 1 Jun 2016
Peer-reviewed: Yes

Publication information
Journal: Management and Production Engineering Review
Volume: 7
Issue number: 2
ISSN (Print): 2080-8208
Ratings:
Scopus rating (2016): SJR 0.126 SNIP 0.551 CiteScore 0.48
Original language: English
The effect of climate change on freeze-thaw durability of concrete structures in Finland

Lahdensivu presented in his Doctoral Thesis (Durability Properties and Actual Deterioration of Finnish Concrete Facades and Balconies, 2012) that without proper air-entrainment outdoor concrete structures have needed average of 307 freeze-thaw cycles (threshold value: t ≤ -5 °C) after a rain event in southern Finland and 388 cycles in inland for incipient freeze-thaw damage to occur. The difference between figures can be explained by the greater amount of wind-driven rain (WDR) before the freeze-thaw cycle on coastal areas.

As a consequence of climate change it has been shown that by the end of the century, the amount of WDR is going to increase 30 % at southern Finland and 40 % at inland. At the same time the amount of freeze-thaw cycles after a rain event are decreasing significantly at both locations which indicates freeze-thaw durability-wise longer service life for outdoor concrete structures. However, the latest studies show that while the amount of freeze-thaw cycles is decreasing, the amount of WDR before the cycles is also increasing significantly.

The WDR at winter time in Finland is highly orientated on west to south-east directions which can be seen also by the degradation rate observations of concrete facades and balconies based on condition assessments. In this study, the changes at WDR before the freeze-thaw events and the effect of climate change on them depending on the structure orientation are calculated to estimate the changes of climatic stress level on outdoor concrete structures.

General information

State: Published
Organisations: Department of Civil Engineering, Research group: Service Life Engineering of Structures
Authors: Pakkala, T., Lemberg, A., Lahdensivu, J.
Number of pages: 1
Pages: 53
Publication date: Jun 2016
Peer-reviewed: Unknown
Event: Paper presented at OCEANEXT : Interdisciplinary Conference,
Keywords: Freeze/thaw, Concrete, Wind-driven rain, Service life
ASJC Scopus subject areas: Civil and Structural Engineering
Links:
https://oceanext.sciencesconf.org/?lang=en
https://oceanext.sciencesconf.org/93828/document

Vastuullisuusmallin kokeiluprojekti henkilöliikenneyrityksissä

The Finnish Transport Safety Agency Trafi is developing a management and procedure model for road transport companies with the purpose of reinforcing the safety culture of commercial traffic and promoting environmentally sustainable practices.

The two previous trial studies concerning the responsibility model focused on goods traffic. This third stage moved the focus on passenger traffic.

The trial was participated in by nine public transport and taxi companies of different sizes from around the country. Nine parties, both public and private, that order transports were interviewed to get an understanding of the views held by those who order such transports.

The study was commissioned by Trafi and implemented by the Verne Traffic Research Centre of the Tampere University of Technology. The project manager in charge was researcher Lasse Nykänen. In addition to Mr Nykänen, the research group consisted of his assistant Arttu Lauhkonen.

The steering group for the study met twice in the course of the project. The steering group was led by Sanna Ström. The
other members were Juhani Intosalmi, Marke Lahtinen and Mikko Västilä from Trafi, and Lasse Nykänen and Arttu Lauhkonen from Traffic Research Centre Verne.

General information
State: Published
Ministry of Education publication type: D4 Published development or research report or study
Organisations: Department of Information Management and Logistics, Research group: Transport Research Centre Verne, Department of Information Management and Logistics
Authors: Nykänen, L., Lauhkonen, A.
Publication date: Jun 2016

Publication information
Place of publication: Helsinki
Publisher: Liikenteen turvallisuusvirasto Trafi
Volume: 2016
Original language: Finnish

Publication series
Name: Trafin tutkimuksia
Publisher: Liikenteen turvallisuusvirasto
No.: 13
ISSN (Electronic): 2342-0294
ASJC Scopus subject areas: Safety, Risk, Reliability and Quality
Keywords: responsibility, responsibility model, Safety, quality, Environment, road transport, passenger transport
Links:
http://www.trafi.fi/filebank/a/1465480577/b8db52fa08391e95c5e39329e2441d75/21740-Vastuullisuusmallin_kokeiluprojekti_henkilokuljetusyrityksissan_tutkimusraportti_13_2016.pdf
Research output: Professional » Commissioned report

Deterioration mechanisms and life cycle of concrete monoblock railway sleepers in Finnish conditions
Thirty eight sleepers aged 30 to 40 years old were removed from Finnish railway lines and were loaded. Twelve new sleepers were also tested. The old sleepers fulfilled most of the requirements specified for the new ones. The old sleepers were also much more resistant to loading than predicted by structural calculations. The purpose of field tests was to establish the role of traffic loads in the life-cycle of sleepers: the actual stresses and moments in sleepers due to traffic loads; the distribution of the load through the underside of the sleeper to the ballast; and the variation in ballast-sleeper reaction on different sections of track in different seasons. Strain changes at the top surfaces of sleepers were measured on tracks while the rail was loaded by passing trains. Ballast-sleeper reactions tended to be concentrated under the rail along a length of sleeper of approximately 350 mm towards the centre of the track. The mean bending moments determined at the rail seat and centre of sleepers were about ±2.5 kNm, and the maximum moments were up to ±10 kNm. The purpose of fatigue loading tests was to analyse the long term properties of the sleepers and the effect of fatigue on the stiffness of sleepers. Several load levels were chosen in order to estimate the significance of the fatigue in a real operating situation. The fatigue limit determined based on the loading tests and the computational limit state of crack formation were clearly higher than the bending moments measured in the field tests.

General information
State: Published
Ministry of Education publication type: D3 Professional conference proceedings
Organisations: Department of Civil Engineering, Research group: Vaativat rakenteet, Research group: Vaativat rakenteet, Research group: Track Structures
Authors: Kerokoski, O., Rantala, T., Nurmikolu, A.
Publication date: 31 May 2016

Host publication information
Title of host publication: WCRR 2016 Proceedings : 11th World congress on railway research, 29.5-2.6.2016, Milano
Links:
http://www.wcrr2016.org/

Bibliographical note
ei isbn 8.12.16
Research output: Professional » Conference contribution
Relevance of five generic business ideation approaches vis-à-vis contexts embedded within construction markets

In general, ideation encompasses the formation of ideas or mental images of things not present to the senses or simply the creation of new ideas. Business ideation is herein perceived to be the core area within future-oriented business management (BM). The main aim of the paper is to assess and advance the relevance of the five generic approaches to business ideation vis-à-vis firms targeting contexts embedded within construction markets. A typology differentiates between the fitting, value-creating, profit generating, systemizing, and commercializing approaches. It is argued that each approach is, at minimum, highly relevant in the case of business unit (BU) management targeting preferred client investment and procurement behavior within construction markets. Approach 1 involves BUs aiming at fit between clients and their needs as well as units’ offerings and operations, respectively. Professional clients couple needs with preferred procurement methods whereas competing BUs are trying to achieve best fit between solutions and client behaviors. This approach calls for research on how to sustain such fit between a BU and clients when changes occur.

Approach 2 enables BUs to create value by specifying high-value propositions, producing value to clients, and capturing their fair shares of produced values. Farsighted clients look for more or novel values for construction investments and, thus, units are collaborating and co-producing values to clients. This approach calls for research on a BU’s value co-production with such clients, value capture, and offerings integration. Approach 3 accommodates BUs that are focusing on generating profits, achieving high-profit levels, and sustaining them. Pioneering clients pursue complex investment aims that can be met only by radical solutions. This approach calls for research on a BU’s profit-generating mechanisms related to clients with complex investment needs and radical solutions. Approach 4 facilitates BUs to systemize businesses around core ideas. Sectoral clients have large or complex needs and, in turn, units are satisfying them by engineering systems as wholes and delivering them as parts. This approach calls for research on BUs with systems and clients, multi-dimensional investments, and system engineering as wholes and parts. Approach 5 facilitates BUs to couple ideas with commercializing dimensions such as entrepreneurship, innovation, business development, venturing, or spin-offing. Risk-taking clients prefer to enter high-innovation contracts and, thus, units are offering novel solutions and emerging business cases. This approach calls for research on a BU’s entrepreneurial competencies and risk-taking clients, wicked investment needs, and high-innovation contracts. In the same vein, the suggestions are put forth to CIB-related scholars for directing research on along the BM and ideation dimensions and adopting most relevant approaches. Likewise, management in firms and BUs competing in construction markets are encouraged to assess the business case-sensitive relevance of each of Approaches 1-5 and try out those with initial high relevance.

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Department of Civil Engineering, Research group: Construction Management
Authors: Huovinen, P.
Number of pages: 12
Pages: 1129-1140
Publication date: 28 May 2016

Host publication information
Title of host publication: Proceedings of the CIB World Building Congress 2016, May 30 - June 3, 2016, Tampere, Finland: Advancing products and services
Volume: V
Place of publication: Tampere
Publisher: Tampere University of Technology. Department of Civil Engineering
Editor: Achour, N.
Keywords: Business ideation, business management, construction markets, literature review
Electronic versions:
CIB WBC16 Pekka Huovinen Final paper (camera-ready) 280316
Links:
http://urn.fi/URN:NBN:fi:tty-201611214721
Links:
Research output: Scientific - peer-review Conference contribution

Life-Cycle Economics of Rentable Prefabricated School Facility Units in Municipal Real Estate Procurement

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Department of Civil Engineering, Research group: Life-cycle Economics, School of Architecture, Research group: Service Life Engineering of Structures
Social media analytics empowering marketing insight - A framework for analyzing affective experiences from social media content

General information
State: Published
Organisations: Department of Information Management and Logistics, Research group: Novi, Managing digital industrial transformation (mDIT)
Authors: Jussila, J., Boedeker, M., Jalonen, H., Helander, N.
Publication date: 27 May 2016
Peer-reviewed: Unknown
Links:
http://www.emac2016.org/
Research output: Scientific · Paper, poster or abstract

Baltic Sea 2030 - Trends and scenarios
The current Baltic Sea logistics system is a result of an optimisation process by industry, ports, shipowners and other stakeholders, all adapting to changes in the operating environment and building strategies for the future. As a result of this process we see the current logistics system, but the parameters of the optimisation process are changing constantly. Global directions of change are called megatrends and common megatrends include: globalisation and increasing importance of Asia, global political issues but national interest, rising energy demand and increase in alternative energy sources, climate change, increasing pace of technological development and urbanisation.

In this study five trend categories were identified based on the megatrends and considered in terms of their effect on the Baltic Sea logistics system. The trends were also analysed by their significance and affectability by maritime sector in order to give the actors a better understanding of the trends which may and should be affected.

Four scenarios were build based on the trends. The age of growth scenario is characterised by steady economic growth, growing importance of service sector and restoration of trade between Russia and Europe. The age of regulation, on the other hand, is defined by slow economic development due to strict environmental regulation and lack of innovations in
heavy industry. The age of locality could be sparked by rapid climate change which would lead to high price of energy and resulting halt in global trade. The age of change would be possible if technological innovations enable rapid transition to renewable energy and Russia integrates closely to Europe as its energy resources lose its geopolitical significance.

The actors may take one of these scenarios and begin to work actively towards it or take another and work against it. Actors may also build their own scenario as a new combination of the factor values presented in the futures table in this article.

UX Expeditions in Business-to-Business Heavy Industry - Lessons Learned
Traditionally, user experience research has focused on consumer products, and there is little research on the role of experience design in business-to-business industry. This paper shortly reports the lessons learned on introducing experience design to Finnish metals and engineering industry during a 5-year research programme. It proved important to prepare the organization to the experience thinking, to give practical means to designing for experiences, to provide distinctive experiences in all touchpoints, and to widely advertise the benefits of experience-driven design. Investing in experiences ultimately pays off by enhanced competitive advantage. We call for more research on experience design in this domain by suggesting research topics for the future.

Comparing university students’ commitment – a multicultural case study
The aim of this research was to evaluate and compare the creative tension of university students in three different universities in South Korea and Finland. The creative tension, or the gap between a person’s feeling of current reality and
Organizational Commitment and Engagement in Two Finnish Energy Sector Organizations

This study was conducted to show a novel way to analyze organizational commitment and engagement levels in organizations and to compare the results of two Finnish organizations operating in the energy sector. Employees estimate the truth value of statements with regard to their own organization at a given moment in time. The employees also specify how they would like the situation represented by the statements to be in the future. In this study, we requested participation from a total of 90 senior salaried employees from two companies in the spring of 2014. In the end, we obtained 54 responses in total, giving us a response rate of 88% for Company A and 25% for Company B. On the basis of the responses, a collective understanding of each organization was first defined, and then a comparison was made between these two organizations. The results of these comparisons show that there are similarities between the companies, even though the degree of affective commitment was significantly higher in one of the companies. However, both companies had similar focus points and priorities in the current state, target state, and proactive vision. On the other hand, the study also discovered that there were major differences regarding some of the evaluated features, as expected. As a result of the analysis, important areas of development were observed in both companies.
Possible impacts of increasing maximum truck weight: Finland case study

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Crowdsourcing in Business-to-Business Markets: A Value Creation and Business Model Perspective
The foundation for the analysis of this chapter builds on the value creation model of Amit and Zott (2001), where they studied the importance of sources of value creation in the field of electronic business. This model was chosen for the purposes of this study because it is developed from fundamental value creation models and dominates concerning value creation in e-business, of which crowdsourcing by utilizing social media tools represents also. Moreover, Amit and Zott's business model (2001, p. 511), which focuses on e-business for B2C companies, can be adapted for all virtual markets in general, and also applies to B2B companies (2006, p. 20). Most importantly, the model enables to analyze the relations between value creation and business model. In next, the theoretical background of value creation is opened up especially in the context of business-to-business markets, and furthermore, the model of Amit and Zott (2001) is presented. Lastly, crowdsourcing in business-to-business markets as the research context of the present study is discussed.

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Research output: Scientific - peer-review › Chapter
Integration obstacles during ERP development

ERP (Enterprise Resource Planning) systems have increasingly been developed and integrated with other internal and external systems. This paper contributes to the field of enterprise systems integration by clarifying the concept of integration in the context of ERP systems. We investigated integration obstacles during ERP development in 5 large organizations through theme-based interviews. Besides considering integration as purely technical challenge, our findings reveal the other perspectives of integration. In total 31 environmental, technical, managerial, and organizational integration obstacles were identified from empirical data and further mapped with 13 ERP challenge categories derived from the literature. Our findings reveal that integration barriers are related to all 13 categories of ERP challenges. This indicates that integration should not be a separate project from ERP development. Identifying the integration obstacles is necessary for practitioners to develop counteractions to enterprise integration problems.

Benchmarking supplier development: An empirical case study of validating a framework to improve buyer-supplier relationship

In today's dynamic business environment, firms are required to utilize efficiently and effectively all the useful resources to gain competitive advantage. Supplier development has evolved as an important strategic instrument to improve buyer-supplier relationships. For that reason, this study focuses on providing the strategic significance of supplier development approaches to improve business relationships. By using qualitative research method, an integrated framework of supplier development and buyer-supplier relationship development has been tested and validated in a Finnish case company to provide empirical evidence. It particularly investigates how supplier development approaches can develop buyer-supplier relationships. The study present a set of propositions that identify significant supplier development approaches critical for the development of buyer-supplier relationships and develop a theoretical framework that specifies how these different supplier development approaches support in order to strengthen the relationships. The results are produced from an in-depth case study by implementing the proposed research framework. The findings reveal that supplier development strategies i.e., supplier incentives and direct involvements strongly effect in developing buyer-supplier relationships. Further research may focus on considering indepth investigation of trust and communication factors along with propositions developed in the study to find out general applicability in dynamic business environment. Proposed integrated framework along with propositions is a unique combination of useful solutions for tactical and strategic management's decision making and also valid for academic researchers to develop supplier development theories.
Can crowdsourcing platforms be used in b2b innovation?

Crowdsourcing for Value Creation in Lean Start-ups

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Crowdsourcing for Value Creation in Lean Start-ups

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Together We Stand, Divided We Fall – Analyzing Information Systems Acquisition as Service

Information systems (IS) acquisition is not a widely studied topic in the literature. In particular, although the role and participation of different stakeholders such as business people, IT people, and external vendors and consultants is acknowledged, little is known about how they cooperate in an IS acquisition project. In this paper, we will apply a value co-creation framework taken from service research as a lens to study an IS acquisition project in an organization. The case organization intends to acquire their new IS as a cloud service. This approach is novel to all stakeholders, so they have to intensively cooperate for example under tight time constraints. The analysis reveals that appropriate cooperative work adds value to all participants, creates a win-win situation, and that the original value co-creation framework needs to be tailored according to the context.
Designing Measures for Managing the Effectiveness for Integrated Service Delivery: The Case of a Geriatric Outpatient Clinic

Health and social services are increasingly produced in cooperation among several specialized organizations. This has increased the importance of service integration in the sector. While the literature acknowledges the need for performance measurement addressing outcomes and effectiveness of service integration, not enough is known about applying such measurement practices. This paper examines the design of a performance measurement system to support the effectiveness management of an integrated service delivery. The research identifies three aspects of effectiveness – community, client and network level. Empirical examination reveals that success factors for design of measures for integrated service delivery include consensus on the targets, coordination and fluent cooperation among actors in the network. The paper contributes to performance measurement literature by illustrating how the design of system level measurement is carried out in practice and analyzing the lessons learned.

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What is product lifecycle management (PLM) maturity? Analysis of current PLM maturity models

Product lifecycle management (PLM) implementation and adoption involves extensive changes in both intra- and inter-organizational practices. Various maturity approaches, for instance based on CMM (Capability maturity modeling) principles, can be used to make the implementation of PLM a better approachable and a more carefully planned and coordinated process. However, there are a number of different types of current approaches which can be thought to fall under the concept of PLM maturity. The aim of this paper is to investigate and analyze the various existing PLM maturity approaches to get an organized picture of the current models and their main background presumptions, goals and restrictions. Thus, we aim to facilitate their proper selection and use to facilitate the implementation of PLM.

General information
State: Published
Knowledge Sharing and Knowledge Security in Finnish Companies

Knowledge management includes several aspects, which can sometimes be even contradictory when operationalized in the daily activities of an organization. In this study, we empirically explore the knowledge management activities that large and small and medium sized companies in Finland have. The focus is especially on sharing and securing knowledge. The theoretical background for the paper is in the broader frame of knowledge management literature, and especially the knowledge sharing and knowledge security viewpoints. The empirical study offers a view on the status of both knowledge sharing and knowledge security in companies of different sizes. The study is able to identify the main challenges in knowledge sharing among companies of different sizes. Furthermore, the areas of knowledge security that still need more careful attention and development actions among companies in their daily operations, are also identified.

A Case Study on Participatory Approach to Support Shift to Experience Design of Work Tools in B2B Context

To support the shift from technology-driven to experience-driven design in a company developing work tools (materials handling equipment), we developed and applied a participatory approach to increase awareness and buy-in of experience design and related methods at the company. We 1) present user experience (UX) design guidelines developed for both designers and managers based on the participatory process, 2) report evaluation of the guidelines with designers,
developers, and selected internal and external stakeholders, and 3) present a participatory approach to create personas and experience journey maps covering the product life-cycle. SWOT analysis of the guidelines revealed that guidelines need to be understandable without expert UX knowledge, managerial support is needed that was aimed to be supported by the guidelines developed for managers, and representative user participation is needed. Participants experienced positively the applied participatory approach, and the mindset change is proceeding in the case company.

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**Acceptability of contaminated soils and waste materials in landfill structures**

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**Analyzing the relationship between workspace and smart infrastructure reliability and continuity: An ethnography of technicians' work**
Ensuring the reliable and continuous operations of complex, unpredictable, and unstable smart infrastructures, such as computerized and automated power grids or water distribution systems, is a persisting organizational challenge and a societal concern. As technologies are inherently unreliable and, especially, the behavior of complex technological systems is unpredictable, the reliability and continuity of such systems cannot be a mere technological concern, but are precarious achievements that require humans, technologies and other actors. Prior research has shown that work creates variance in organizational performance and that reliability and continuity emerges from what work is done and how it is performed. This ethnographic research focuses on technicians’ IT enabled workspace to analyze how the materiality of the workspace conditions and enables technicians to perform the reliability and continuity of a smart infrastructure (smart power grid). Building on sociomaterial theorizing and infrastructure studies, a concept of infra-acting is developed to denote the technicians’ possibilities for action in smart infrastructure setting, and to foreground and make sense of the reciprocity between the (materiality of) technicians’ workspace and infrastructure continuity. Discussion and conclusions are provided.

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A Practice Lens for Understanding the Organizational and Social Challenges of Information Security Management

As the cost and amount of information security breaches continue to rise, information security management becomes vital for organizations. Often organizations seek advice from information security management standards and other frameworks to manage their information security. Such standards and frameworks depict information security management as a rational, systematic and linear process and leave out the complexity and uncertainty of real-life settings. In particular, they pay little attention to the organizational and social challenges inherent in information security management. Therefore, this study draws on the practice theory to develop a practice lens for understanding how people, practices and what happens in practice interact and create such challenges. This lens depicts information security management as emerging from mundane aspects of information security management work and from the enacted social structures of and events arising at an organization and its environment and enables a deeper understanding of the organizational and social challenges. After developing this lens, it is illustrated and elaborated through an ethnographic study at an IT service provider, and its contributions to research and practice discussed.

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Big data rahoitusmarkkinoilla

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Case study: developing campus spaces through co-creation
Higher education institutions are designed to support their core processes – learning, teaching, research, and societal impact. In order for university facilities to support these activities, it is crucial to determine together with the users what these activities are and how they are supposed to be developed in the future. This article examines the relationship between user needs and the service level in construction projects through a case study where a university cafeteria was renovated using a participatory design (PD) method called charrette. The aim of this case study was to study the effects of collaborative ways of working when applied to a space retrofit project, and how the co-created ideas are actualized during the project. Based on video observation, project document analysis, and survey questionnaires, this research shows that PD duly provides a positive impact on the resulting premises, even though every part of the project may not be successful. However, the use of PD during the concept design phase does not necessarily guarantee success. The accomplishments can be undone in the later phases of the project if collaboration is not extended through the entire project. Further, the findings of this case study revealed a framework of user needs that can be used in design management in order to enhance the user perspective.
Commercialising reclaimed materials in earthworks – guidelines for productization and the process of appending these materials in the Finnish national code of practice

To decrease the use of non-renewable natural resources as well as environmental effects of earth-works, natural aggregate materials can be replaced with recycled materials acquired from surplus soil, industrial by-products and waste, etc. When wishing to increase the usage of these reclaimed materials (="UUMA"-material), the usage must be straightforward for developers, designers and constructors alike. To make this possible, the materials must have design guidelines for their appropriate applications. They must be productized and CE marked or otherwise authorized, and the construction guidelines for the materials must be included in the Finnish general specifications for infrastructural construction works (InfraRYL). As productization is especially important in increasing the usage of UUMA materials, guidelines for vendors are being drawn that present information on commercializing reclaimed materials to be used in earthworks. The guidelines for productization are being prepared in the Finnish national UUMA2 programme (2013-2017, www.uuma2.fi), which was created to promote the use of recycled materials in earthworks.
Commitment and motivation in professional organization
Personnel is vital for the companies and the performance in organizations is based on competence of personnel. Motivation and commitment are critical preconditions for organizational success. The study focuses on evaluating commitment and motivation levels of experts. The aim was to discover the main exceptions between the current status and the vision regarding commitment and motivation. The fluctuations of commitment and motivation levels were analyzed in terms of departments, gender, age and years of service. The survey was conducted by using Helix, an Evoluto-based application, which was developed for measuring and evaluating the personnel commitment levels. This survey strongly emphasized the significance of affective commitment. In observing either the creative tensions or the product of creative tension and importance, all surfacing main categories fall under the affective commitment component.

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Consensus building in the pre-design phase of building projects
Building projects are unique manoeuvres in which numerous participants who possess different skills work together to complete various tasks. Working processes vary in complexity from simple to very complex. Although the building construction sector has traditional ways of structuring projects, project management professionals are continuously seek new process models and ways to cooperate between people and project participants. This paper focuses on processes in the pre-planning phase of a building project and is based on exploratory study where the conceptual and empirical literature about construction processes and decision-making were reviewed. Over thirty existent models were identified and thirteen of these models, which take a decision making into account, were more closely studied. In addition, decision-making models in other fields were surveyed. Using a hermeneutic cycle approach, the aim of this paper is to investigate a preferable model for the pre-planning phase of construction projects that can produce the main objectives, which is to best serve the end user and the project as a whole. As a final result a new model in the case of the pre-design phase of the building process is introduced and discussed. This paper asks what we have learnt from these foci.

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Construction of enterprise architecture in discourses within the public sector

Enterprise Architecture (EA) has been employed in the public sector to improve efficiency and interoperability of information systems. Despite their daily use in the public sector, the concepts of Enterprise Architecture and efficiency are ambiguous and lack commonly accepted definitions. The benefits and outcomes of using EA in the public sector have been studied with mixed results. This study examined the use of EA in the Finnish basic education system using critical discourse analysis (CDA). The research revealed how the role and rationale of EA is constructed in the speech of public sector officials. Three orders of discourse, each having its own views on EA, were found. While there were commonly accepted functions for EA, there were also areas where the concepts were not mutually understood or accepted.

Contextual factors and entrepreneurial innovation: case study in equipment & machinery

General information
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Organisations: Research group: Business Ecosystems, Networks and Innovations, Industrial and Information Management
Delphic maxims based applied philosophy for business and governance management

Knowledge analysis and representation is significant in defining situations before they are implemented through action. Knowledge engineering precedes knowledge management and knowledge utilization needs knowledge creation. In the race for capturing and mastering knowledge, emphasis is given to the development of intelligent methods and tools to understand the human mind, but not the human being itself. To tackle this complexity, it is necessary to seek knowledge in non-trivial sources via root cause analysis models of philosophical wisdom, which usually provides the answers. As problems become more complex over time, synergies of knowledge disciplines are critical and necessary. This paper presents a triadic categorization approach, based on classes, taxonomies, and ontologies of the Delphic Maxims, and their analysis by cognitive models in an attempt to reveal their contribution to modern business and governance management through the essence of the Hellenic contribution to the global economy, civilization and humanity.

Developing competitive advantage through tracking tools in service business: The case of a global industrial service supplier

This research is about the utilisation of tracking tools in maintenance resource coordination to investigate the benefits of tracking in the coordination processes. Based on service industry, this study uses a pilot project, questionnaires and interviews as research methods. Various challenges were found in the field of mobile workforce management; coordination, safety at work, achieving optimisation goals of cost-efficiency, quality and customer service. Many of these challenges can be facilitated with tracking. However, the possibilities of tracking utilisation vary in differing business areas of case company. Four dimensions in the existing business were identified. They are connected with the mobility and
management style of service technicians. Further, the main tracking opportunities were introduced into each of these business fields. The successful usage and implementation of a tracking system necessitates strong support from management. Tracking tools offer numerous opportunities for maintenance resource coordination. Undoubtedly, the tracking implementation and utilisation require consideration of several managerial matters.

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Scopus rating (2011): SJR 0.29 SNIP 0.837 CiteScore 1.49
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Scopus rating (2009): SJR 0.242 SNIP 0.439
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Development of students’ commitment over time—case study from a finnish university of technology
Using a fuzzy logic-based application that utilizes linguistic scale values, we have evaluated commitment and engagement of five individual university students from Finland studying Industrial Management and Engineering from bachelor’s to master’s level. The data was gathered over one year and the students answered the application three times during different management courses. This research paper concentrates on analyzing three different commitment categories to see whether there has been change over time, as expected. Our assumption is that academic commitment and engagement toward studies tend to increase as studies progress and students approach graduation.

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Authors: Einolander, J., Vanharanta, H.
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Different approaches of the PLM maturity concept and their use domains – analysis of the state of the art

Product lifecycle management (PLM) implementation and adoption involves extensive changes in both intra- and inter-organizational practices. Various maturity approaches, for instance based on CMM (Capability maturity modeling) principles, can be used to make the implementation of PLM a better approachable and a more carefully planned and coordinated process. However, there are a number of different types of current approaches which can be thought to fall under the concept of PLM maturity. The aim of this paper is to investigate, analyze and categorize the various existing PLM maturity approaches to get an organized picture of the models and their background presumptions, as well as their potential use domains, and to facilitate their proper use to better implement PLM in different industry contexts.

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Authors: Kärkkäinen, H., Silventoinen, A.
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Publication date: 2016

Different roles in leadership styles in modern organization

Today's rapidly changing world has forced leaders to change their leadership styles aligned to the current situation faster than ever. What kind of leadership style should be utilized in modern expert organization? What are leaders' own experiences and can leadership styles somehow been assessed? What have scholars founded regarding leadership styles? This paper examines different situational leadership approaches in order to reveal literature based ontology of
leadership styles. Ontology includes leadership styles from over ten well known and tested leadership approaches. Case study is also used to test the possibility for find leaders’ styles and development needs via survey. A sample group of leaders answered to the survey with a focus to clarify the leaders of a conscious understanding towards of the working role styles of leadership. The perspective of this paper is the leadership styles and coordination between different leadership approaches. Paper handles results and points out future research suggestion.

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AS/IC Scopus subject areas: Control and Systems Engineering, Computer Science(all)
Keywords: Leadership, Leadership style, Ontology, Situational leadership
DOI: 10.1007/978-3-319-42070-7_24

Bibliographical note
JUFOID=79020
Source: Scopus
Source-ID: 84979649746
Research output: Scientific - peer-review › Conference contribution

Ecosystems Here, There, and Everywhere — A Barometrical Analysis of the Roots of ‘Software Ecosystem’
This study structures the ecosystem literature by using a bibliometrical approach in analysing theoretical roots of ecosystem studies. Several disciplines, such as innovation, management and software studies have established their own streams in the ecosystem research. This paper reports the results of analysing 601 articles from the Thomson Reuters Web of Science database, and identifies ten separate research communities which have established their own thematic ecosystem disciplines. We show that five sub-communities have emerged inside the field of software ecosystems. The software ecosystem literature draws its theoretical background from (1) technical, (2) research methodology, (3) business, (4) management, and (5) strategy oriented disciplines. The results pave the way for future research by illustrating the existing and missing links and directions in the field of the software ecosystem.

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Pori Department, Research group: Business Ecosystems, Networks and Innovations, VTT Technical Research Centre of Finland, University of Turku
Authors: Suominen, A., Hyrynsalmi, S., Seppänen, M.
Number of pages: 15
Pages: 32-46
Publication date: 2016

Host publication information
Title of host publication: Software Business: 7th International Conference, ICSOB 2016, Ljubljana, Slovenia, June 13-14, 2016, Proceedings
Publisher: Springer Verlag
ISBN (Print): 9783319405148

Publication series
Name: Lecture Notes in Business Information Processing
Empowerment in construction: a qualitative analysis of subcontractors’ quality assurance

General information
State: Published
Organisations: Department of Civil Engineering, Research group: Construction Processes
Authors: Viita, J., Junnonen, J.
Pages: 436-448
Publication date: 2016

Host publication information
Title of host publication: Proceedings of the CIB World Building Congress 2016: Volume II - Environmental Opportunities and Challenges. Constructing Commitment and Acknowledging Human Experiences
Publisher: Tampere University of Technology. Department of Civil Engineering

Evaluating the business impacts of social media use with System Dynamics and Agent-Based Modeling: A Literature Review

Social media has been widely adopted as a useful business tool, especially in the domain of business to consumer marketing. However, the deployment of social media tools to business processes is hindered by the lack of concrete indicators of the effects its use has on the business process. Computer based modeling has been widely used to simulate and predict business effects in other streams of study, but relatively little in the evaluation of social media impacts. This paper argues that System Dynamics and Agent-Based Modeling have been and should be utilized in measuring social media and its impacts in business context in general, as well as in the context of business ecosystems. The authors review the current state of the use of these simulation methods in the evaluation of social media business impacts by conducting a systematic literature review.

General information
State: Published
Organisations: Department of Information Management and Logistics, Research group: Novi, Managing digital industrial transformation (mDIT), Granite Partners Ltd
Authors: Pirttilä, O., Kärkkäinen, H., Jussila, J. J.
Publication date: 2016
Peer-reviewed: Yes

Publication information
Journal: INTERNATIONAL JOURNAL OF VIRTUAL COMMUNITIES AND SOCIAL NETWORKING
Volume: 8
Issue number: 2
ISSN (Print): 1942-9010
Original language: English
Keywords: social media, system dynamics, agent-based modelling
ASJC Scopus subject areas: Management of Technology and Innovation
Electronic versions:
Functional model for organisational and safety culture

Cultures are usually defined as shared values, attitudes and behaviour of certain group. The core of culture is inside person's mind. Only through behaviour or other actions of persons the culture becomes visible and shareable. Cultural artefacts and all other perceptible signs of culture are formed through action. From this perspective culture requires functionality. It does not exist nor spread without activity of individuals. In systems theory there is a methodological distinction between theoretical system and empirical system. Theoretical system "is a complex of concepts, suppositions, and propositions having both logical integration and empirical reference". Empirical system is "a set of phenomena in the observable world that is amenable to description and analysis by means of a theoretical system". However, in cultural context, theoretical models usually describe only properties of the empirical system. Usually the functionality of the culture is left undefined. Therefore theoretical models may have flaws in their ability to describe the functionality of the culture, which is essential part of the culture. In this paper we use a novel functional model to explore the functionality of the most commonly used culture models. We inspect Schein's organizational culture model, Cooper's reciprocal safety culture model and Johnson's cultural web. We study them and their functionality with our own functional model, which integrates person to sociotechnical system and shows person-sociotechnical system interaction. This study clearly shows that if culture's basis is in shared mental models, then the question whether organization is or has culture is absurd. As Antonsen has pointed out certain mandatory organizational features are clearly structural and not cultural. We also emphasize the behavioural aspect when defining cultural issues. The shared mental model alone is not sufficient requirement to define a feature as a cultural artefact, nor is the behaviour all employees share. Behaviour or action is cultural artefact only when the members of the culture have truly free will to choose their behaviour.
Knowledge work productivity framework – new ways of working context
Knowledge work productivity has been a popular topic in many research areas for decades. Current interest towards it has arisen due to organizations’ needs to make major changes for improving the productivity and lowering the costs. In the New Ways of Working concept, organizations change their work environment to support flexibility and employees’ opportunities to find the best ways to do their work. These changes impact the workplace, technology and management of the organization. Productivity is a typical dependent variable in many research areas, but fewer studies have been made that combine productivity drivers with the same model or study it from the knowledge worker perspective. The purpose of this paper is to identify key factors of knowledge work and what their impacts are on knowledge work productivity. The paper creates a knowledge work productivity framework. The framework consists of two major elements, the knowledge worker itself and the work environment. The value of the framework for researchers is that it increases the understanding of the phenomenon of knowledge work productivity and offers future research opportunities. For managers looking for competitive advantage or planning work environment changes, it gives a good grasp of what to focus on.

Lasitettu parveke on energiansäästöä tuottava asunnon ulkotila - Auringonsuojaverhot ratkaisu sisälämpötilojen hallintaan

General information
State: Published
Ministry of Education publication type: D1 Article in a trade journal
Organisations: Civil Engineering, Research group: Service Life Engineering of Structures
Authors: Hilliaho, K.
Number of pages: 4
Pages: 52-55
Publication date: 2016
Master's students' commitment and engagement in their course behavior

Student commitment is a major concern for universities around the world. Research has indicated that students' psychological attachment to their university, in other words commitment, can be a major predictor of student retention, as well as affecting many other attitudes and types of behavior. This makes university commitment critical to university success. The present study seeks to find out whether there is a relation between students' grades and the degree of their engagement and commitment, using the Evolute approach. The research group in this study consisted of master's degree students studying in faculties of Business and Built Environment and Computing and Electrical Engineering. In the newly developed instrument, respondents assessed 124 unique statements regarding their current situation and their vision for the future. This score and its sub-scores are compared in relation to individual course grades.

Host publication information
Title of host publication: Advances in Human Factors, Business Management, Training and Education : Proceedings of the AHFE 2016 International Conference on Human Factors, Business Management and Society
Publisher: Springer Verlag
ISBN (Print): 9783319420691

Publication series
Name: Advances in Intelligent Systems and Computing
Volume: 498
ASJC Scopus subject areas: Control and Systems Engineering, Computer Science(all)
Keywords: Commitment, Engagement, Fuzzy logic, Human resource management, Leadership, Master students
DOIs:
10.1007/978-3-319-42070-7_6
Source: Scopus
Source-ID: 84979695579
Research output: Scientific - peer-review › Conference contribution

Modelling of plastic culvert and road embankment interaction in 3D
A series of 3D Finite Element simulations was performed to investigate the effect of different factors influencing the distortions undergone by a plastic culvert tube while subject to external loading from a heavy truck. The applied simulation model was verified by full-scale loading tests carried out on a number of actual culvert installation sites. Based on the results of the study, it can be concluded that both installation depth and quality of the material surrounding the culvert have a dominant effect on culvert distortions while the effects of material quality above the culvert and the type of tyre configuration transmitting the wheel load are much less pronounced.

General information
State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: Department of Civil Engineering, Research area: Earth and Foundation Structures, Research group: Earth Constructions
Authors: Kolisoja, P., Kalliainen, A.
Number of pages: 8
Pages: 427-434
Publication date: 2016
Open Innovation Adoption Practices and Evaluation Methods in the Global Process Industry

Inter-organisational collaboration is crucial for Open Innovation adoption in order to realise, in practice, the potential benefits of the concept. However, the number of empirical studies on the activities and processes that contribute to Open Innovation adoption is relatively limited. Therefore, this chapter provides empirical evidence from the global process industry, where we have defined, tested and utilised the standardised process, evaluation methodologies and tools that engage several collaborators to improve the key business process performance of their firms. The results show that the standardised process can provide several concrete business results for the management, and can efficiently promote the adoption of Open Innovation, as well as the utilisation of the firm’s tacit knowledge to further improve the business performance.

General information
State: Published
Ministry of Education publication type: A3 Part of a book or another research book
Organisations: Research group: Business Ecosystems, Networks and Innovations, Industrial and Information Management, Nokia Corporation, Savonia University of Applied Sciences
Authors: Pellikka, J., Kajanus, M., Seppänen, M.
Pages: 181-2015
Publication date: 2016

Host publication information
Title of host publication: Open Innovation: A Multifaceted Perspective: Part I
Publisher: WORLD SCIENTIFIC
ISBN (Print): 978-981-4719-17-9

Publication series
Name: Open Innovation: Bridging Theory and Practice
DOIs:
10.1142/9789814719186_0008
Research output: Scientific - peer-review › Chapter

Perspective of Social Usability In the Change Processes of an Academic Workplace

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Department of Civil Engineering
Authors: Kostiainen, E., Nenonen, S.
Pages: 688-701
Reinforcement Corrosion Modelling in Renovation Strategy for Concrete Facades

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Department of Civil Engineering, Research group: Service Life Engineering of Structures
Authors: Köliö, A., Lahdensivu, J., Pentti, M.
Pages: 199-211
Publication date: 2016

Resiliency of prefabricated daycares and schools: Finnish perspective to relocatable education facilities
The industrialised production of prefabricated daycare and school properties offer flexible alternatives for communities for provision of communal services. The paper investigates architectural qualities and financial solutions for rentable and relocatable education facilities in Finland. In particular, the focus is on the communal interests in solving the property management with a portfolio of rentable facilities for different time spans ranging from very short term to periods up to over twenty years. The short term rental terms offer solutions for disaster mitigation such as flooding but also spaces during refurbishment of existing buildings, e.g. due to moisture and mould damage. A core issue is a potential sustainable and flexible co-existence of both permanent and flexible modules that can adapt, for example to demographic changes, improving the efficiency of communal property management. Thus the prefabricated solutions have a potential, if the architectural quality is high enough, to provide alternatives for the real estate strategies of cities also in longer term provision of daycare and school facilities.

General information
State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: Department of Civil Engineering, School of Architecture, Research group: Service Life Engineering of Structures, Research group: Life-cycle Economics
Authors: Edelman, H., Vihola, J., Annila, P., Laak, M.
Number of pages: 12
Pages: 316-327
Publication date: 2016
Peer-reviewed: Yes

Publication information
Journal: International Journal of Strategic Property Management
Volume: 20
Issue number: 3
ISSN (Print): 1648-715X
Ratings:
Scopus rating (2016): SJR 0.293 SNIP 0.691 CiteScore 0.92
Scopus rating (2015): SJR 0.561 SNIP 0.828 CiteScore 1.32
Scopus rating (2014): SJR 0.638 SNIP 0.741 CiteScore 1.14
Resource – Space Charts for Construction Workspace Scheduling

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Authors: Bragadin, M. A., Kähkönen, K.
Pages: 677-688
Publication date: 2016

Host publication information
Publisher: Tampere University of Technology. Department of Civil Engineering
Links:
Research output: Scientific - peer-review › Conference contribution

Rohkeammalla sosiaalisen median käytöllä tehoja innovaatiotoimintaan

General information
State: Published
Ministry of Education publication type: D1 Article in a trade journal
Organisations: Department of Information Management and Logistics, Research group: Novi, Managing digital industrial transformation (mDIT)
Authors: Jussila, J.
Number of pages: 2
Pages: 22-23
Publication date: 2016
Peer-reviewed: Unknown

Publication information
Journal: Tietoasiantuntija
Volume: 31
Issue number: 2-3
ISSN (Print): 1795-7338
Original language: Finnish
Electronic versions: Rohkeammalla_jariJ_TA_lehti_2_3_2016
Links:
http://urn.fi/URN:NBN:fi:tty-201609064488
Research output: Professional › Article
Role of Power and Sense Making in the Briefing of a Small Renovation Project

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Department of Civil Engineering, Research area: Construction Management and Econimics, Research group: Construction Management
Authors: Naaranoja, M., Kähkönen, K., Keinänen, M.
Pages: 611-621
Publication date: 2016

Host publication information
Title of host publication: Proceedings of the CIB World Building Congress 2016: Volume I - Creating built environments of new opportunities
Publisher: Tampere University of Technology. Department of Civil Engineering
Links:
Research output: Scientific - peer-review › Conference contribution

Social media-based value creation and business models
Purpose - The purpose of this paper is to create an organized picture of the current understanding of social media-based value creation and business models. Design/methodology/approach - Following the process model presented by Fink (2005), a systematic literature review of academic journal articles published between 2005 and 2014 was conducted. The research was grounded on the theoretical foundations of service-dominant logic. Findings - This study offers detailed descriptions and analyses of the major social media mechanisms affecting how value is created in social media-based value networks and the kinds of impact social media can have on present and future business models. Research limitations/implications - The study is limited to academic research literature on business organizations, excluding all studies related to public and non-profit organizations. Practical implications - Attention is given to developing an in-depth understanding of the functions and concrete value creation mechanisms of social media-based co-creation within the different organizational processes (e.g. in product and service development and customer services) and to updating the related practices and knowledge. Originality/value - This study provides new insight into the challenges related to research models and frameworks commonly used for observing value creation, thus highlighting the need for further studies and updates.

General information
State: Published
Ministry of Education publication type: A2 Review article in a scientific journal
Organisations: Department of Information Management and Logistics, Research group: Novi, Managing digital industrial transformation (mDIT)
Authors: Ketonen-Oksi, S., Jussila, J. J., Kärkkäinen, H.
Pages: 1820-1838
Publication date: 2016
Peer-reviewed: Yes

Publication information
Journal: Industrial Management and Data Systems
Volume: 116
Issue number: 8
ISSN (Print): 0263-5577
Ratings:
Scopus rating (2016): SJR 0.768 SNIP 1.214 CiteScore 2.59
Scopus rating (2015): SJR 0.634 SNIP 1.12 CiteScore 2.06
Scopus rating (2014): SJR 0.864 SNIP 1.568 CiteScore 2.33
Scopus rating (2013): SJR 0.963 SNIP 1.489 CiteScore 2.48
Scopus rating (2012): SJR 1.003 SNIP 1.513 CiteScore 2.72
Scopus rating (2011): SJR 0.797 SNIP 1.33 CiteScore 2.44
Scopus rating (2010): SJR 0.824 SNIP 1.282
Scopus rating (2009): SJR 0.993 SNIP 1.511
Scopus rating (2008): SJR 0.768 SNIP 1.158
Scopus rating (2007): SJR 0.962 SNIP 1.662
Scopus rating (2006): SJR 0.778 SNIP 1.563
Scopus rating (2005): SJR 0.598 SNIP 1.157
Scopus rating (2004): SJR 0.509 SNIP 1.054
Scopus rating (2003): SJR 0.651 SNIP 1.417
Scopus rating (2002): SJR 0.313 SNIP 0.482
Scopus rating (2001): SJR 0.223 SNIP 0.298
Scopus rating (2000): SJR 0.161 SNIP 0.239
Scopus rating (1999): SJR 0.129 SNIP 0.227

Original language: English
ASJC Scopus subject areas: Management of Technology and Innovation, Information Systems
Keywords: social media, business model, value creation, value co-creation

Electronic versions:

DOI:
10.1108/IMDS-05-2015-0199

Links:
http://urn.fi/URN:NBN:fi:tty-201608164417

Research output: Scientific - peer-review › Review Article

Spatial borders and affordances of a temporary school building – Enhancing the school engagement and learning experience

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Department of Civil Engineering
Authors: Airo, K., Vaara, L., Nenonen, S.
Pages: 715-725
Publication date: 2016

Host publication information
Title of host publication: Proceedings of the CIB World Building Congress 2016: Volume II - Environmental Opportunities and Challenges. Constructing Commitment and Acknowledging Human Experiences
Publisher: Tampere University of Technology. Department of Civil Engineering
Links:
Research output: Scientific - peer-review › Conference contribution

Tammikuun tehopiikki – mitä tapahtui 7.1.2016? Miten tehoa hallitaan paremmin jatkossa?

General information
State: Published
Ministry of Education publication type: D4 Published development or research report or study
Organisations: Department of Civil Engineering, Research group: Life-cycle Economics, Department of Automation Science and Engineering, Research area: Measurement Technology and Process Control, Department of Electrical Engineering, Research area: Power engineering, Research group: Construction Processes, University of Tampere
Pages: 1-15
Publication date: 2016

Publication information
ISBN (Electronic): 978-952-03-0346-4

Publication series
Name: EL-TRAN analyysi
Volume: 7/2016
Links:
Research output: Professional › Discussion paper
Teräsrumpujen uudet korjausmenetelmät: Haikaistu sisäputki, puolipohjaus ja pohjan betonointi

Tässä tutkimuksessa arvioitiin uudentyyppisten korjausmenetelmien soveltuvuutta teräksestä valmistettujen tierumpujien käyttöönnön pidentämiseksi. Tutkimuksessa rajauduttiin tarkastelemaan sellaisia korjausmenetelmiä, joita käytetään rumpuputken aukon koko pieneneen mahdollisimman vähän. Rumpujen korjaaminen on kannattavinta kohteissa, joissa rumpun asennusympäristö on suuri tai tien aukiolaisuus aiheuttaa suuresti liikenteen liikenteenjärjestelykustannuksia.


Aiemmissa rumpuputken mekaanisen toiminnan mallinnuksissa käytetyn PLAXIS 3D-ohjelmiston rinnalla mallinnettiin tässä tutkimuksessa rumpuputken peitettyyn raskasyksiköön liittyviä asioita myös ANSYS-ohjelmistolla. Tämän seurauksena todettiin, että korjatut rumpuputken mekaanista käyttäytymistä ei saatu verifioitua uskottavaksi arvioiduilla materiaaliparametreilla.

The effects of improved energy efficiency on indoor environmental quality in multi-family buildings

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Department of Civil Engineering, Research group: Structures and Their Behaviour, Research area: Structural Engineering, Research group: Building Physics and Acoustics, Natl Inst Hlth & Welf, Finland National Institute for Health & Welfare, Dept Envirnmt Hlth, Kaunas Univ Technol, Kaunas University of Technology, Dept Environm Technol
Authors: Du, L., Prasauskas, T., Leivo, V., Turunen, M., Kiviste, M., Martuzevicius, D., Haverinen-Shaughnessy, U.
Publication date: 2016

Host publication information
Title of host publication: Indoor Air 2016 : The 14th international conference of Indoor Air Quality and Climate Ghent, Belgium July 3-8 2016
Article number: 737
ISBN (Electronic): 978-0-9846855-5-4
Links: http://www.indoorair2016.org/
Research output: Scientific - peer-review › Conference contribution

The impact of residential development on nearby housing prices
Purpose - Even as multi-story apartment building development proposals in existing neighbourhoods represent a substantial component of policy debate at local planning boards, there is limited evidence for the impact of such residential developments on surrounding apartment values. The void in knowledge is addressed in this study, and the impact of multi-story apartment building developments on apartment values in residential high-rise areas located outside city and district centres is investigated in Helsinki Metropolitan Area, Finland.

Design/methodology/approach - Whether a multi-story apartment building development is followed by an increase in housing values depends on both positive and negative externalities. To specify valuation effects of proximate development projects, advanced research design combining matched sample methodology and hedonic-based difference-in-difference approach is used.
Findings It appears from the analysis that completion of a single multi-story apartment building has an immediate positive impact on apartment values within 300 metre radius. While, there is no statistically significant impact on price trend.
Research limitations - This paper studies apartment values only in Helsinki Metropolitan Area, Finland, and it is important to notice that local regulations and market conditions may have a notable impact on the outcomes.
Originality/value This study is the first of its kind to provide with statistically significant evidence for positive impacts from multi-story apartment building development in Finnish residential high-rise areas, and may have a crucial role in helping to dispel prejudices related to such developments.

General information
State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: Department of Civil Engineering, Research group: Life-cycle Economics
Authors: Kurvinen, A., Vihola, J.
Number of pages: 4
Pages: 671-690
Publication date: 2016
Peer-reviewed: Yes

Publication information
Journal: International Journal of Housing Markets and Analysis
Volume: 9
The impact of senior house developments on surrounding residential property values

Purpose - Even as many countries are facing changes in demographic profile and new types of senior housing developments are becoming more important, there is limited evidence for the development impact of a senior house on surrounding residential property values. This study addresses the void in knowledge, investigating the impact of senior house developments on apartment values in Tampere, Finland.

Design/methodology/approach - To specify valuation effects of proximate senior house development projects, advanced research design combining propensity-score matching procedure and hedonic pricing models is used.

Findings - The results show that a senior house development has a significant positive impact on proximate residential property values within a 500 metre radius. The impact is found to be the highest in underdeveloped neighbourhoods. Nevertheless, in neighbourhoods where property values and demand for housing units are higher and senior house developments fall into the criteria of infill development, a premium is lower, but still statistically significant and notable in magnitude.

Research limitations - This paper studies apartment values only in Tampere, Finland, and it is important to notice that local regulations and market conditions may have a notable impact on the outcomes from senior house developments.

Originality/value - This study is the first of its kind to address a number of empirical issues and provide with statistically significant evidence for positive impacts from senior house developments – encouraging investors and developers to build senior houses.
The Workplace for Researchers – Enhancing Concentration and Face-to-face Interaction

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Department of Civil Engineering
Authors: Huhtelin, M., Nenonen, S.
Pages: 753-764
Publication date: 2016

Host publication information
Title of host publication: Proceedings of the CIB World Building Congress 2016: Volume I - Creating built environments of new opportunities
Publisher: Tampere University of Technology. Department of Civil Engineering
Links:

TiedeAreena 2016

General information
State: Published
Ministry of Education publication type: D6 Edited professional books
Organisations: Pori Department
Authors: Tuomi, P. (ed.)
Number of pages: 56
Publication date: 2016

Publication information
Publisher: Tampereen teknillinen yliopisto, Porin laitos
Original language: Finnish
To network or not to network? Analysis of the Finnish software industry-A networking approach

The purpose of this paper is to study the role of networking in the development and present situation of Finnish software companies. Although the target of interest of this study is Finland, the conclusions can also to some extent be applied to other countries with mature software industries. In Finland there is uniquely wide longitudinal material on the software business available; the software industry survey is an annual study targeted for the branch, which has already been repeated for 18 consecutive years. The study shows that networking has been a key trend in the industry and also a driver for internationalization, but as it has not been identified very well in networking literature concerning the software industry, there is a clear need for further examination of software industry networks.


The purpose of this paper is to introduce a model to manage knowledge security risks in organizations. Knowledge security risk management is a sensemaking process that should be carried out by managers, and the proposed model works as a tool for the sensemaking process. The model is illustrated with an analytical case example. The process model helps to identify knowledge security risks and provides a comprehensive approach to evaluating and balancing the costs and benefits of knowledge sharing and knowledge risk management. The paper addresses calls for research on the emerging topic of knowledge security and the important topic of new knowledge sharing tools from the combined perspectives of business benefits and risk management. The results presented in this paper are preliminary and conceptual, and further research on the topic is suggested. The process model proposed in this paper can be a valuable tool for practitioners aiming to develop knowledge sharing practices in companies, and at the same time need to consider the security of knowledge.
Two decades of the dark side in the information systems basket: suggesting five areas for future research

Despite its benefits, information technology (IT) use is associated with serious negative effects on individuals. For example, technostress and IT addiction can harm IT users’ organizational performance and everyday well-being. Such dark side phenomena have become more evident since IT has transmuted into a major component of humans’ job routines and private lives. However, since current information systems (IS) research on the dark side is in an early and fragmented stage, there is a need for a synthesis. To address this need, we conducted a literature review of 37 articles published in the IS basket journals between 1995 and 2015. We detected four key phenomena: technostress, information overload, IT addiction, and IT anxiety. Within the analysis of the articles, we paid special attention to the antecedents, consequences, and mitigation mechanisms of each phenomenon. Based on our findings, this article contributes to IS research by pointing out unmapped territories in the IS basket and suggesting five areas for future research: (1) Technostress mitigation mechanisms in everyday use of IT, (2) IT addiction in organizational use of IT, (3) Information overload in everyday use of IT, (4) IT anxiety in everyday use of IT, and (5) Personal IT actions as mitigation mechanisms.
Uusilla työvälineillä somen suomenkieliset tunnesisällöt analyysiin ja hyötykäyttöön

General information
State: Published
Ministry of Education publication type: D1 Article in a trade journal
Organisations: Department of Information Management and Logistics, Research group: Novi, Managing digital industrial transformation (mDIT)
Authors: Jussila, J.
Number of pages: 3
Pages: 8-10
Publication date: 2016
Peer-reviewed: Unknown

Publication information
Journal: Tietoasiantuntija
Volume: 2016
Issue number: 2-3
ISSN (Print): 1795-7338
Original language: Finnish
Electronic versions: Uusilla_työvälineillä_JJ_TA_lehti_2_3_2016-2
Research output: Professional › Article

Ventilation rates before and after energy retrofit in multi-family buildings in Finland

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Department of Civil Engineering, Research group: Structures and Their Behaviour, Research area: Structural Engineering, Research group: Building Physics and Acoustics, Natl Inst Hlth & Welf, Finland National Institute for Health & Welfare, Dept Environm Hlth
Authors: Leivo, V., Turunen, M., Aaltonen, A., Kiviste, M., Haverinen-Shaughnessy, U.
Publication date: 2016

Host publication information
Title of host publication: Indoor Air 2016: The 14th international conference of Indoor Air Quality and Climate. Ghent, Belgium July 3-8 2016.
Article number: 764
ISBN (Electronic): 978-0-9846855-5-4
Links: http://www.indoorair2016.org/
Research output: Scientific - peer-review › Conference contribution

Vesihuollon strateginen kehittäminen haltuun: Ydin- ja tukitoiminnon tarpeen hahmottaa selkeästi

General information
State: Published
Ministry of Education publication type: D1 Article in a trade journal
Organisations: Department of Civil Engineering
Authors: Katko, T. S., Hukka, J. J.
Number of pages: 2
Pages: 12-13
Publication date: 2016
Alentaako vuokra-asuntojen yleisyys omistusasuntojen hintoja?

Platform Competences to Enhance Network Effects in Business Ecosystems

Business orientation in knowledge risk management – a literature review
Knowledge, research and science are all concepts into which every member of the scientific community must have some kind of insight. Although nowadays there appears to be a general consensus that engineering science is a scientific enterprise in and of its own, this has not been the case for very long. As a scientific discipline, engineering science has been somewhat neglected from the standpoint of epistemology and philosophy.

This study aims at understanding the prevailing philosophy of engineering science in Finland. It strives to comprehend the essence and challenges of knowledge and knowledge-creation processes in the field. It is hoped that the resulting comprehension will improve the research community's possibilities 1) to reflect critically upon its procedures, 2) to discuss what should be studied and how, and 3) to determine on what bases the processes and results should be evaluated. It is also expected to assist in developing doctoral education and to result in better supervision by providing a framework and vocabulary for philosophical and methodological discussion.

The cognitive interest in this study is practical, and the orientation hermeneutic. The process follows the general lines of qualitative research and applies the method of qualitative content analysis. As an empirical inquiry, this study belongs to the realm of science and technology studies. The phenomenon was studied in the context of Finland in the guise of a single-case study, with Tampere University of Technology as the case.

The final results support the view that engineering science certainly is a scientific discipline in and of its own, characterised by its own technical matrix. Most engineering science research can be classified as design science. Scientific inquiry in engineering science often requires building conceptual—but also material—constructs, as well as developing new methods for different purposes (analyses, design, implementation, evaluation). Consequently, the contributions recognised in research are of many types (artefacts, methods, declarative knowledge, proposals), but they are not always the kind of knowledge adhering to technical norms. Arriving at new theories or linking knowledge to existing theories seems to be even rarer than arriving at technical norms.

Engineering science is a discipline of considerable diversity. The objectives, methods, empirical processes and results pertaining to one type of inquiry can be very different from those found in other types of investigation. This study uncovered five distinct research profiles, but there may well be more to discover.

At the moment, the philosophy of engineering science has not raised significant interest, as it appears not to have many direct consequences; yet, there are challenges that engineering scientists face that may well be rooted in the lack of
Regarding the increasingly important paradigm of open innovation, it is recognized that valuable innovation-related knowledge is distributed ever more widely to various actors outside the company borders, such as users, customers, and communities. Various types of novel collaborative web tools and approaches, such as social media, can enable and significantly increase the use of distributed knowledge both within and outside company borders.

It is a common assumption that it is much more difficult to utilize social media in business-to-business (B2B) innovation and the customer interface because of the significant differences in B2B markets, B2B products, and product development, for example. Despite the growing number of company experiments and academic studies, social media are still new to many businesses. The opportunities and benefits of social media are not well understood in business, especially in B2B context. Despite the recent increasing interest in the use of social media in B2B marketing, it has received little attention from the innovation perspective.

The general purpose of this thesis is to study and help to understand the use of social media in B2B companies' innovation. The thesis focuses on the innovation process, customer interface and the related perspective of the creation and sharing of customer knowledge. The main objectives of the dissertation are to understand the challenges, new opportunities, use and benefits, as well as, functions and roles of social media in B2B innovation. The choice of carrying out the dissertation as an article thesis has offered the researcher the opportunity to study from multiple perspectives a
phenomenon that has been little researched or understood. The thesis combines quantitative and qualitative research. Quantitative research approach was used to determine the current use and perceived potential of social media tools in innovation, as well as to identify challenges of social media use in B2B company innovation. Qualitative research was used to gain a deep understanding of the challenges and benefits, and roles and functions of social media in B2B innovation.

The thesis contributes to the increasing understanding on the rather little understood topic of social media and its potential in B2B companies’ innovation. Based on the research, new understanding was gained on the challenges that B2B companies face in using social media in innovation, on the new possibilities and benefits that social media provide for innovation, as well as on the applications and the roles of social media in B2B innovation.

In addition, models and theories were developed for enhancing social media use: based on the qualitative research, for example, a Social Customer Learning model was built, which aims to help researchers and managers to identify and evaluate different social media approaches in business-to-business customer interface and innovation; modifications and improvements were proposed for media richness theory and channel expansion theory for the better consideration of the social media and the innovation contexts.

General information
State: Published
Ministry of Education publication type: G5 Doctoral dissertation (article)
Organisations: Department of Information Management and Logistics, Research group: Novi, Managing digital industrial transformation (mDIT)
Authors: Jussila, J.
Number of pages: 70
Publication date: 6 Nov 2015

Publication information
Publisher: Tampere University of Technology
Original language: English

Publication series
Name: Tampere University of Technology. Publication
Publisher: Tampere University of Technology
Volume: 1333
ISSN (Print): 1459-2045
Electronic versions:
jussila_1333
Links:

Bibliographical note
Awarding institution:Tampere University of Technology
Versio ok 14.12.2015
Research output: Collection of articles ➔ Doctoral Thesis

Enterprise architecture as strategy, practice, or approach

General information
State: Published
Ministry of Education publication type: D3 Professional conference proceedings
Organisations: Department of Information Management and Logistics, Research group: Novi
Authors: Pekkola, S.
Publication date: 13 Oct 2015

Host publication information
Title of host publication: 4th Innovation in Information Infrastructures (III) Workshop
Place of publication: Warwick, UK
Publisher: University of Warwick
Links:
http://www.wbs.ac.uk/events/view/4751
Research output: Professional ➔ Conference contribution
The effect of ground leases on house prices in Helsinki

One imperfection in housing markets is imperfect knowledge about legal interests such as ground leases. Both actual reduced legal interest as well as uncertainty surrounding rights and future lease payments for houses constructed on leased land may affect prices relative to houses built on freehold land. We use regression analysis of sales prices of condominium transactions in Helsinki to examine the effect ground leases have on house prices. We find that prices on condominiums constructed on leased lots are discounted at least 5%, on average. In addition, we see that the announcement of potentially large increases in base rents upon renewal contributes to the discount.

General information
State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: Department of Civil Engineering, Research group: Construction Management, The University of Georgia, Department of Real Estate, Georgia State University, Department of Financial Planning, Housing and Consumer Economics
Authors: Tyvimaa, T., Gibler, K. M., Zahirovic-Herbert, V.
Number of pages: 20
Pages: 451-470
Publication date: 11 Sep 2015
Peer-reviewed: Yes

Publication information
Journal: Journal of Housing and the Built Environment
Volume: 30
Issue number: 3
ISSN (Print): 1566-4910
Ratings:
Scopus rating (2016): SJR 0.866 SNIP 1.107 CiteScore 1.16
Scopus rating (2015): SJR 0.649 SNIP 1.121 CiteScore 1.01
Scopus rating (2014): SJR 0.492 SNIP 1.003 CiteScore 1.02
Scopus rating (2013): SJR 0.561 SNIP 0.855 CiteScore 1.02
Scopus rating (2012): SJR 0.606 SNIP 0.886 CiteScore 0.95
Scopus rating (2011): SJR 0.508 SNIP 0.861 CiteScore 0.95
Scopus rating (2010): SJR 0.572 SNIP 0.762
Scopus rating (2009): SJR 0.496 SNIP 0.773
Scopus rating (2008): SJR 0.527 SNIP 0.789
Scopus rating (2007): SJR 0.553 SNIP 0.854
Scopus rating (2006): SJR 0.535 SNIP 0.849
Scopus rating (2005): SJR 0.622 SNIP 1.066
Scopus rating (2004): SJR 0.422 SNIP 0.493
Scopus rating (2003): SJR 0.332 SNIP 0.517
Scopus rating (2002): SJR 0.372 SNIP 0.532
Scopus rating (2001): SJR 0.184 SNIP 0.239
Scopus rating (2000): SJR 0.233 SNIP 0.343
Scopus rating (1999): SJR 0.325 SNIP 0.531
Original language: English
ASJC Scopus subject areas: Geography, Planning and Development, Urban Studies
Keywords: Condominium, Finland, Ground leases, House prices, Housing markets
DOI:
10.1007/s10901-014-9424-3
Links:
http://www.scopus.com/inward/record.url?scp=84938832858&partnerID=8YFLogxK (Link to publication in Scopus)
Source: Scopus
Source-ID: 84938832858
Research output: Scientific - peer-review » Article

Knowledge Management and Emerging Collaborative Networks in Tourism Business Ecosystems

If we critically look at the evolution of the Tourism Industry (TI), we can note that, in the past decade, nothing has changed as much as ICTs and the Internet which caused an extensive transformation of the TI. Both demand and supply of ICT, together with innovation in transportation and international trade agreements, have evolved the tourism sector in operational workflows, management and marketing of new of tourism experiences. The massive use of new technologies has facilitated the rise of new flat organizational models where traditional brokers have disappeared, replaced by direct connections between local providers and tourists, or they have been reconfigured into new forms of dynamic and web-
based tourism package providers. The depicted industry evolution shows potential, unthinkable just a few years ago, for local service providers usually marginalized from main tourism flows, due to their small sizes, and who are unable to compete in the globalized market. In many regions characterized by a niche tourism vocation, local tourism operators have started organizing themselves spontaneously in Collaborative Networks in order to create aggregate tourism offers that are able to compete with big tourism operators thus transforming regions with potential and vocation in real tourism destinations. The main social effect of instantiating these tourism partnerships, is the stimulus towards Tourism Business Ecosystems (TBEs) giving local tourism service providers a means for economic growth. The aim of this paper is to describe how the organizational paradigm of CNs, applied to the TBEs knowledge management and supported by ICTs, can be the key means for the growth of emerging TBEs. Such models are able to reengineer the tourism destination management model in order to gain much more flexibility in service provision and provide tourists the possibility to live an augmented tourism experience. In this paper we point out that tourism destinations, in an effort to give services able to actively support each phase of the 2.0 tourist lifecycle, can benefit from collaborative network models.

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Pori Department, Research group: Business Ecosystems, Networks and Innovations, Department of Information Management and Logistics, Research group: Novi, Managing digital industrial transformation (mDIT), University of Calabria
Authors: Ammirato, S., Michele Felicetti, A., Della Gala, M., Aramo-Immonen, H., Jussila, J.
Number of pages: 7
Pages: 19-26
Publication date: 3 Sep 2015

Host publication information
Title of host publication: Proceedings of the 16th European Conference on Knowledge Management (ECKM 2015), University of Udine, Italy, 3-4 September 2015
Place of publication: Reading, UK
Publisher: Academic Conferences and Publishing International Limited
Editors: Massaro, M., Garlatti, A.
ISBN (Print): 978-1-910810-46-0
Keywords: tourism business ecosystem, collaborative network, ICT, tourist 2.0 lifecycle

Bibliographical note
ORG=pla,0.5
ORG=lio,0.5
Research output: Scientific - peer-review › Conference contribution

Coopetition and company performance

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: University of Vaasa (UVA), University of Vaasa
Authors: Helander, N., Vesalainen, J., Juha, P.
Publication date: 2 Sep 2015

Host publication information
Title of host publication: IMP 2015 Conference
Links:
Research output: Scientific - peer-review › Conference contribution

Personal constructs concerning safety and atmosphere

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Pori Department, Department of Industrial Management, Research group: Safety Management and Engineering
Authors: Porkka, P., Laukkanen, I., Kivistö-Rahnasto, J.
Publication date: Sep 2015

Host publication information
Advancing international business ideation concepts for contexts embedded within capital investment markets

The aim of this paper is to advance international business (IB) ideation especially as part of IB management concepts and among concept designers related to contexts embedded within international capital investment markets (CIMs). A 5-approach typology differentiates between fitting, value-creating, profit-generating, systemizing, and commercializing business ideation. This paper is part of the on-going reviewing of research on CIMs-related business management (BM). So far, the reviewing has resulted in the identification of 71 concepts published between the years 1990 and 2013. Focal firms have their home bases in one of the OECD countries plus in Hong Kong and Singapore due to the heritage of the British Commonwealth. Within the 71-concept platform, there are 18 (25%) IB management concepts, i.e., the authors have designed them for managing businesses with contexts embedded within international CIMs. Moreover, 14 (20%) CIMs-related IB management concepts have been designed also along the business ideation dimension, respectively. There are 6 (8%) high-degree concepts, and 4 (6%) medium-degree concepts, and 4 (6%) low-degree concepts. In principle, it seems that these high-degree IB management concepts enable the viable IB ideation for contexts within CIMs. However, none of these concepts has been designed for managing primarily IB ideation. Thus, the five 2-dimensional couplings are suggested for advancing the design of IB ideation concepts, i.e., IB ideation is coupled theoretically with a frame of reference and a school of thought on generic BM as well as contextually with IB types, environments, and dynamism embedded within international CIMs. In turn, IB and CIMs-related researchers with IB managers can jointly engage themselves with cross-disciplinary and academia-industry research on IB ideation.

General information
State: Published
Organisations: Department of Civil Engineering, Research group: Construction Management
Authors: Huovinen, P.
Number of pages: 26
Pages: 1-26
Publication date: 26 Aug 2015
Peer-reviewed: Unknown
Keywords: Business ideation, capital investments, concepts, construction, international business.
ASJC Scopus subject areas: Business, Management and Accounting(all)
Research output: Scientific › Paper, poster or abstract

The Role of Customer Experience in Value Creation in Business-to-Business Context

General information
State: Unpublished
Ministry of Education publication type: D3 Professional conference proceedings
Organisations: Department of Information Management and Logistics, Research group: Novi, Tampere University of Technology, Tampere University of Applied Science
Authors: Väyrynen, H., Vasell, T., Helander, N., Boedeker, M., Andersson, T.
Number of pages: 1
Pages: 146
Publication date: 12 Aug 2015

Host publication information
Title of host publication: 23rd Nordic Academy of Management Conference : NFF 2015
Publisher: Nordic Academy of Management
Article number: 24.02

Bibliographical note
AUX=tlo,"Vasell, Tytti"
Research output: Professional › Conference contribution

Lean start-up companies by means of crowdsourcing
Lean start-up approach provides both small and larger companies a novel, important and useful way to organize their business development, while reducing related high risks. Traditional start-ups face a multitude of significant challenges and risks. A study by Ghosh showed that as many as 75% of all start-ups fail. Earlier research has preliminarily
demonstrated that crowdsourcing has the potential to reduce the risks of failure of start-ups, as well as overcome some of the inherent challenges lean start-ups face. We argue that crowdsourcing can significantly improve the leanness and agility of start-ups' business functions.

General information
State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: Department of Information Management and Logistics, Research group: Novi, Managing digital industrial transformation (mDIT), DIGILE – Finnish Center for Science and Innovation in the Internet Economy
Authors: Erkinheimo, P., Jussila, J., Kärkkäinen, H.
Number of pages: 4
Pages: 17-20
Publication date: 10 Jul 2015
Peer-reviewed: Yes

Publication information
Journal: Journal of Innovation Management
Volume: 3
Issue number: 2
ISSN (Print): 2183-0606
Original language: English
Keywords: open innovation, crowdsourcing, lean start-up, innovation
Links:
http://hdl.handle.net/10216/79104
Research output: Scientific - peer-review › Letter

Enablers and barriers of inter-organizational networks formation for new market entry: case Finnish maritime industry
Failures of networking attempts are rarely reported in the literature. This study examined an intentionally formed, non-successful case network in its formation phase by using Lowensberg' holistic conceptual model for strategic alliance issues that links six organizational theories to the network management processes. This empirical study of a whole network at network level involved one survey (n=20) and 61 semi-structured interviews in more than 20 Finnish maritime industry organizations and observations in six workshops, while the network aimed at joint market entry. The paper presents 11 enablers and six barriers discovered in the networks formation phase. The findings contribute to understanding the enablers and barriers in network formation affecting failure, especially the significance of network strategy formulation and communication to network organizations in intentionally formed networks. Presenting conclusions for academics and managers, the paper fulfills the gap in the literature of whole networks, particularly their failures in their formation phase.

General information
State: Published
Ministry of Education publication type: D3 Professional conference proceedings
Organisations: Pori Department, Research group: Business Ecosystems, Networks and Innovations
Authors: Suominen, A.
Number of pages: 30
Publication date: 3 Jul 2015

Host publication information
Title of host publication: 31st EGOS Colloquium, General Theme, Organizations and the Examined Life: Reason, Reflexivity and Responsibility, July 2–4, 2015 Athens, Greece
Publisher: SAGE Publications

Publication series
Name: Organization Studies
ISSN (Print): 0170-8406
ISSN (Electronic): 1741-3044
Keywords: network strategy, network formation, network failure, whole network, market entry
ASJC Scopus subject areas: Social Sciences(all), Business, Management and Accounting(all)

Bibliographical note
Enablers and barriers of inter-organizational networks formation 14.7.2015 ei tarkistettu, siirretty kohdasta additional files
Research output: Professional › Conference contribution
Replacing project managers in information technology projects: Contradictions that explain the phenomenon

According to anecdotal evidence, project managers working on information technology (IT) projects are occasionally replaced, although the literature on information systems (IS) and project management (PM) makes little mention of it. With a view to narrowing this knowledge gap the authors examined the reasons behind the practice. The authors took an interpretive approach to the data gathering and analysis, and collected descriptions about replacing project managers (RPM) from interviews and questionnaires (n=43). The concept of contradiction served as a lens through which to identify the underlying reasons. Contradiction refers to statements asserting or expressing the opposite of another statement. The authors identified four contradictions explaining why RPM occurs in IT projects. These contradictions show that RPM appears to be a simplistic solution when there are more fundamental issues to consider. The implications extend to education, practice, and research in the context of IT project management.

Network archetypes in the network formation phase - case new market entry of Finnish maritime network

A theory of co-opetition in supply networks with specified four archetypes has been proposed in the earlier literature. As the model is not yet exhaustive, this study examines it in a case network in its formation phase. The findings bring new contribution to understanding the model of supply network archetypes and the utility of its four interrelated elements in forming strategic supply networks. The results provide novel evidence that competing situation within network and network organizations’ co-opetitive or non-collaborative strategies with competitors, are essential information when forming a network, determining its network level objectives and governance.
Test in scala reale su argille sensibili: l’esperienza finlandese

General information
State: Published
Ministry of Education publication type: D3 Professional conference proceedings
Organisations: Department of Civil Engineering, Research group: Foundation Structures
Authors: D’Ignazio, M.
Publication date: May 2015

Host publication information
Title of host publication: 5 IAGIG, Incontro Annuale dei Giovani Ingegneri Geotecnici
Place of publication: Rome
Links:
http://www.iagig.unisa.it/iagig_2015/iagig2015atti
Research output: Professional › Conference contribution

Teollisuusyrityksen digipolku: Katsaus digitalisaatioon teollisuusyritysten näkökulmasta

General information
State: Published
Ministry of Education publication type: D4 Published development or research report or study
Organisations: Department of Information Management and Logistics, Research group: Novi, Pori Department, Research group: Business Ecosystems, Networks and Innovations, Department of Industrial Management, Research group: Center for Innovation and Technology Research, Managing digital industrial transformation (mDIT), Intosome Oy, Hermia
Authors: Lakkala, H., Rainio, T., Jussila, J., Kärkkäinen, H., Pirttilä, O., Seppänen, M., Peltola, T.
Number of pages: 36
Publication date: Apr 2015

Publication information
Place of publication: Helsinki
Publisher: TEKES, National Technology Agency, Finland
Original language: Finnish

Publication series
Name: Tekes Review 319/2015
Publisher: Tekes
ISSN (Electronic): 1797-7339
Links:
http://www.tekes.fi/globalassets/julkaisut/teollisuusyritysten_digipolku.pdf

Bibliographical note
ORG=ttl,0.75
ORG=pla,0.15
ORG=tta,0.1
Research output: Professional › Commissioned report
A Co-creation Centre for University–Industry Collaboration – A Framework for Concept Development

Abstract

It is argued in general that future success in effective innovation creation is built on the ability to connect and manage talent, partnerships and related practical innovation processes. This makes it challenging for a university to develop an ecosystem of knowledge creation. The full benefit from a university can only be obtained if the university and society are organically linked together. The needs of society have to be at the centre of a university's activities, and flexible adjustment to changing needs is necessary but often lacking. Campus management has a major role in the facilitation of multidisciplinary interaction between students, scientists, entrepreneurs and other industry partners that inspire each other with different perspectives on the same subject. One significant tool to support open innovation with diverse stakeholders is to provide supportive spaces with relevant services. This paper aims to identify the requirements of a Co-creation Centre as a concept serving the third role of a university. The literature review was conducted and, based on the result, this paper proposes a conceptual framework for capturing the key requirements for developing a multiuser Co-creation Centre. The framework consists of the requirements on the demand and supply sides of campus management. The main findings in this paper are that different modes of knowledge conversion have different capabilities to support knowledge co-creation requirements. Knowledge co-creation process requirements in the multiuser Co-creation Centre for university–industry collaboration are best supported by originating "Ba", which means the place where individuals share feelings, emotions, experiences, and mental models and the place where the knowledge-creation process begins. The results contribute to the concept development in campus management and provide a starting point for evaluating the success of multidisciplinary and multi-actor innovation environments.

General information
State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: Department of Civil Engineering
Authors: Huhtelin, M., Nenonen, S.
Pages: 137 - 145
Publication date: 2015
Peer-reviewed: Yes

Publication information
Journal: Procedia Economics and Finance
Volume: 21
ISSN (Print): 2212-5671
Original language: English
Keywords: spaces and services.
DOIs: http://dx.doi.org/10.1016/S2212-5671(15)00160-4
Source: Bibtex
Source-ID: urn:eaca1c4a4f51146bd5f6ea3caca20e86
Research output: Scientific - peer-review › Article

Assessment of student retention using the Evolute approach, an overview
Birth and expansion of innovation ecosystems: A case study of copper production

Despite the growing attention innovation ecosystems have received from scholars and practitioners, rather little is known about the crucial birth and expansion phases that these ecosystems experience. Through a single case in the complex product system (CoPS) environment, this paper investigates the development of an innovation ecosystem between 1980 and 2007. The findings demonstrate that the ecosystem’s birth phase includes sub-phases, namely, invention and start-up, where the ecosystem is reconfigured to find the appropriate form and the proper actors to satisfy the first customer’s requirements. Moreover, the duration of the expansion phase is found to be remarkably long, suggesting that within the CoPS setting, expansion may also include two or more sub-phases.
Busting myths of electronic word of mouth: The relationship between customer ratings and the sales of mobile applications

Business and academic research frequently highlights the power of electronic word of mouth, relying on the knowledge that online customer ratings and reviews influence consumer decision making. Numerous studies in different disciplines have been conducted to examine the effectiveness of electronic word of mouth communication. Previously, typically small sample studies suggest that positive electronic word of mouth increases sales and that the effects depend on the volume and valence of reviews and ratings. This study’s contribution lies in testing the relationship between electronic word of mouth and the sales of applications in a mobile application ecosystem (Google Play) with an extensive dataset (over 260 million customer ratings; 18 months). The results show that higher values of valence of customer ratings correlate statistically significantly with higher sales. The volume of ratings correlates positively with sales in the long term but negatively in the short term. Furthermore, the relationship between electronic word of mouth and sales seems to be more important when the price of the application increases. The findings also underline the importance of the choice of a measurement period in studies.

General information
State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: Pori Department, Research group: Business Ecosystems, Networks and Innovations, Managing digital industrial transformation (mDIT), Turun Yliopisto/Turun Biomateriaalikeskus, University of Turku, Turku School of Economics, VTT Technical Research Centre of Finland, University of Turku
Authors: Hyrynsalmi, S., Seppänen, M., Aarikka-Stenroos, L., Suominen, A., Järveläinen, J., Harkke, V.
Number of pages: 18
Pages: 1-18
Publication date: 2015
Peer-reviewed: Yes

Publication information
Journal: Journal of Theoretical and Applied Electronic Commerce Research
Volume: 10
Issue number: 2
ISSN (Print): 0718-1876
Ratings:
Scopus rating (2016): SJR 0.353 SNIP 1.204 CiteScore 1.98
Scopus rating (2015): SJR 0.607 SNIP 1.398 CiteScore 1.84
Scopus rating (2014): SJR 0.412 SNIP 1.201 CiteScore 1.14
Scopus rating (2013): SJR 0.213 SNIP 1.14 CiteScore 1.01
Scopus rating (2012): SJR 0.286 SNIP 1.034 CiteScore 0.97
Scopus rating (2011): SJR 0.404 SNIP 1.613 CiteScore 1.42
Scopus rating (2010): SJR 0.347 SNIP 0.713
Scopus rating (2009): SJR 0.367 SNIP 0.849
Scopus rating (2008): SJR 0.122 SNIP 0.183
Original language: English
Keywords: App stores, Big data, Consumer ratings, Consumer reviews, Electronic word of mouth, Micro-pricing, Products ratings, Sales
CEOs 2015: Proceedings of the 8th Nordic Conference on Construction Economics and Organization

Nordic conferences on Construction Economics and Organization (CEO conferences) have been biennial events for academics and industry people. These events are bringing together experts globally and those particularly from Nordic countries for sharing and learning new knowledge, to meet colleagues, get new connection and to visit/see interesting construction case projects or companies. For academics these conferences are important publishing channels. The accepted double-blind reviewed papers are published using widely recognised academic media.

We are very pleased to introduce 8th CEO conference 28th – 29th May 2015, Tampere Finland. The overall theme of this CEO2015 conference is Leadership for targeted change and proven advancements. The following titles represent key areas for which the conference was planned to contribute.

• Gaining desirable changes in real estate and construction sector
• Change towards sustainable built environment and environmental friendly behaviour
• Processes and methods for realizing change initiatives
• Principles, methods and tools for the management of change in processes and projects
• Learning from change: challenges in change processes
• Change behaviour – methods and models to affect change processes
• Business and operations management under unceasing change
• Built environment, companies and projects as systems.

The CEO2015 conference comprises 79 accepted papers and their presentations. The special issue of Elsevier Procedia Economics and Finance (Volume 21, 8th Nordic Conference on Construction Economics and Organization) includes 76 papers. This publication includes three papers. The editors are grateful to all authors for their valuable efforts.

General information
State: Published
Ministry of Education publication type: D4 Published development or research report or study
Organisations: Department of Civil Engineering, Research group: Construction Management, Research group: Construction Processes, Research group: Life-cycle Economics
Number of pages: 40
Publication date: 2015
Challenges Facing BIM Education: Development of Appropriate Teaching and Learning Resources

Building Information Modelling (BIM) is becoming the new norm in the AEC industry and also part of many construction project management (CPM) programmes. In terms of teaching BIM there is the need for specific resources in explaining the theoretical principles of BIM, BIM tools (authoring, audit and analysis) and building models themselves. Theoretical resources that are available for education in the form of books, articles and websites are easy and straightforward to locate. Likewise a good share of various tools are available for educational purposes. On the other hand, actual building models represent a challenge in terms of preparing and optimising usage of the model for high quality educational purposes. This paper addresses the difficulty in walking the narrow line between an industry ready BIM versus a BIM that is good for student learning and offers a realistic and practical, but simultaneously achievable learning environment. Conducting a case study in an undergraduate CPM education setting, three approaches for obtaining BIM resources were identified with various challenges and benefits. A combination of internally developed models for early exposure and industry models for later courses is proposed.

Comparison of Functional, Structural, and Dynamic Business-IT Alignment Models: A Case Study

Competence portfolio assessment of research and development center for regional development
Customers' conscious experience in a coffee shop

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Pori Department, Research group: Business Ecosystems, Networks and Innovations
Authors: Vanharanta, H., Kantola, J., Seikola, S.
Number of pages: 8
Pages: 618-625
Publication date: 2015

Host publication information
Title of host publication: 6th International Conference on Applied Human Factors and Ergonomics (AHFE 2015) and the Affiliated Conferences, AHFE 2015
Publisher: Elsevier

Publication series
Name: Procedia Manufacturing
Volume: 3
ISSN (Print): 2351-9789
DOI: 10.1016/j.promfg.2015.07.283
Research output: Scientific - peer-review » Conference contribution

Defining guided selling in business-to-business context

General information
State: Published
Ministry of Education publication type: D3 Professional conference proceedings
Organisations: Department of Industrial Management
Authors: Mahlamäki, T., Ojala, M., Uusitalo, O.
Publication date: 2015

Host publication information
Title of host publication: 23rd Nordic Academy of Management Conference : NFF 2015 - Business in society
Place of publication: Copenhagen
Publisher: CBS Copenhagen Business School
Links:
Emotion measurement services for knowledge workers
In order to understand and manage how emotions affect knowledge work, organizations need proper tools to become aware of emotions. Measuring emotions is an approach to consider. In this paper, three different emotion measurement services are tested: daily experience survey, electrodermal activity ring and self-tracking of emotions. The paper provides new insights and user experiences of emotion measurement services and their applicability in daily knowledge work. Managerial guidelines are drawn up for planning and executing emotion measurement services in an organization for two purposes – self-development and measuring company pulse.

General information
State: Published
Ministry of Education publication type: B3 Non-refereed article in conference proceedings
Organisations: Department of Information Management and Logistics, Research group: Novi, Department of Information Management and Logistics, Intopalo Oy
Authors: Vuolle, M., Salonius, H., Lintinen, J., Mäkinen, J.
Number of pages: 20
Publication date: 2015

Host publication information
Title of host publication: RESER2015 : 25th Annual RESER Conference, September 10-12, 2015 Copenhagen, Denmark
Place of publication: Copenhagen
Publisher: RESER European Association for Research on Services
ISBN (Electronic): 978-87-7349-921-4
Keywords: Knowledge work, Emotions, Measurement, self-management
Links:

Bibliographical note
AUX=tlo,"Lintinen, Johanna"
Research output: Scientific - peer-review

Enacting Information Security Policies in Practice: Three Modes of Policy Compliance

General information
State: Published
Ministry of Education publication type: A3 Part of a book or another research book
Organisations: Department of Information Management and Logistics
Authors: Niemimaa, M., Laaksonen, A. E.
Pages: 223-249
Publication date: 2015

Host publication information
Title of host publication: Materiality, Rules and Regulation : New Trends in Management and Organization Studies
Publisher: Palgrave Macmillan
ISBN (Print): 978-1-349-56619-8
ISBN (Electronic): 978-1-137-55264-8
DOIs: 10.1057/9781137552648_12
Research output: Scientific - peer-review

Energiansäästöä parvekkeen lasitukselle

General information
State: Published
Ministry of Education publication type: D1 Article in a trade journal
Organisations: Department of Civil Engineering, Research group: Service Life Engineering of Structures
Authors: Hilliaho, K.
Number of pages: 3
Pages: 26-28
Publication date: 2015
Peer-reviewed: Unknown
Human Factor In Time Management

Abstract Time is the most important resource for leaders. Resources such as personnel, capital or facilities are crucial for leaders, but time is imperative. People's productivity, and hence organizations performance are heavily related to their time usage. Therefore, especially leaders should have conscious awareness towards their time personality. Time, however, is not an easy concept to handle for leader or even understand it. It has many different faces towards people. The challenge is that chronological time, where the business and management are done, is not nearly suitable when human relations and leadership are handled. Individuals experiences towards time differentiates to one another and different situations are constantly changing the experience of individual. Therefore, quite often, leaders recognize that it is hard to have schedules to match or plans to actualize within an agreed time. Some people fit more easily to same time reality with leader than others. Consequently, it is crucial for leaders also to understand how organization's members experience their time and how conscious their awareness is. Before it is possible to manage one's own time usage, personal time orientation, biases towards time, situation has to be understood consciously. This article handles research regarding time ontology in leadership and management environment and regarding peoples conscious awareness towards time and differences in their time reality. Research is done by developing and utilizing application called Chronos & Kairos which main purpose is to give possibility for thorough research for peoples' differences when experiencing time. Time ontology for leadership and management environment is presented as well as research and results of differences of people's time reality. Article argues that people's conscious awareness towards time differentiates and this issues should be recognized especially in leadership positions. Future research aspects and recommendations are also issued in this paper.
Managing Cultural Knowledge in Project Execution

The purpose of this study was to explore the factors through which the project implementation phase could be enhanced by cultural knowledge. The importance of studying this subject is that the exploitation of cultural knowledge (Hofstede & Hofstede 2005, Schwartz 1999, Ng et al. 2006, Hall 1976, Lewis 2006) and competence (Koskinen 2001) is still limited in the constantly increasing project-based business (Turner 1999, Arto et al. 2011, PMBOK 2004) in the international field. Two objectives exist in this study: understanding project complexity through the main challenges in project implementation and evaluating the impacts of the cultural factors behind them. We propose the multiple case study approach (Eisenhard & Graebner 2007, Yin 2014). The prominence of cultural knowledge in project implementation is difficult to determine, so the research design has exploratory features. Case project A was implemented in Sub-Saharan Africa and Case project B in...
the Near East. Interviewed managers worked either from distance and only visited the target country periodically or represented the perspective of an operational level manager working in the host country. The main cultural challenges that occurred in the projects are defined by these interviewees. This methodology gives evidence of the main challenges in the two case projects and clarifies the multiplicity of cultural issues in the project context. The importance of this subject was highlighted and the interviewed managers demonstrated that cultural knowledge can offer benefits. Numerous studies exist concerning the challenges in the project business (Deresky 2014, Turner 1999). The outcomes of the research stressed the uniqueness of projects and the situational need for cultural knowledge. The results highlighted the pervasive nature of culture in the international playing field. Companies are obliged to adjust their operations according to environments with multifaceted requirements. National cultures not only prevail within the borders of geographical areas, but are also reflected in company procedures. Therefore, their overall impact needs to be considered in international projects.

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Pori Department, Research group: Business Ecosystems, Networks and Innovations, Department of Information Management and Logistics, Research group: Novi, Managing digital industrial transformation (mDIT), University of Calabria
Authors: Aramo-Immonen, H., Hietaoja, H., Jussila, J. J., Ammirato, S.
Number of pages: 12
Pages: 1085-1096
Publication date: 2015

Host publication information
Title of host publication: 10th International Forum on Knowledge Asset Dynamics, IFKAD 2015, Bari, Italy: Culture, Innovation and Entrepreneurship: connecting the knowledge dots
Volume: 10
Place of publication: Bary
Publisher: IKAM Centro Studi & Ricerche
Keywords: Project management, Cultural Knowledge, Project execution, Developing country, Multicultural projects

Bibliographical note
ORG=pla,0.5
ORG=tl0,0.5
Research output: Scientific - peer-review › Conference contribution

Managing tomorrow’s daily consumer goods logistics value network

General information
State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: Department of Information Management and Logistics, Research group: Novi, Research group: Transport Research Centre Verne, University of Vaasa
Authors: Helander, N., Kallionpää, E., Rantala, J.
Publication date: 2015
Peer-reviewed: Yes

Publication information
Journal: International Journal of Supply Chain and Operations Resilience
Volume: 1
Issue number: 2
ISSN (Print): 2052-868X
Original language: English
Keywords: Value creation, Networks, Logistics
Research output: Scientific - peer-review › Article

New tools to help in the recruitment process

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Department of Signal Processing, Research area: Information Technology for Biology and Health, Research area: Intelligence in Machines, Research group: MMDM, Research group: Signal and Information Processing, Pori Department
Paradoxes in the development of a business critical information system

General information
State: Published
Ministry of Education publication type: D3 Professional conference proceedings
Organisations: Department of Information Management and Logistics, Research group: Novi
Authors: Salmimaa, T., Hekkala, R., Pekkola, S.
Publication date: 2015

Host publication information
Title of host publication: The 19th Pacific Asian Conference on Information Systems 2015 (PACIS 2015)
Publisher: Association for Information Systems
Links:
http://www.pacis2015.org/
http://aisel.aisnet.org/pacis2015/50/
Research output: Professional › Conference contribution

Pienituloisen omistusasujan energiaköyhyys: Energiaköyhyyden jatkoselvitys liittyen asuntojen lämmitysremontteihin ja energiakuluhiin


Pientalojen asuntokohtaisissa energiakustannuuksissa on Suomessa erittäin suuri hajonta. Erityisen suuret lämmityskustannukset olevat Pohjois-Suomessa sijaitsevissa suureissa ja vanhassa öljylämmittineissä omakotitaloissa. Lämmitystapamuutoksilla on suurin vaikutus energiakustannuuksiin. Ilmaisilla
säästötoimenpiteillä voi erityisesti omakotitaloissa vaikuttaa nergiankulutukseen ja -kustannuksiin, yhteensä säästö voi olla 5 - 35 prosenttia. Ilmaisia keinot ovat sisälämpötilan pudotus, veden käytön vähennys, ilmaisella puulla lämmittäminen ja sähköön kilpailuttaminen. Lämmitystapamuutosten esteenä ovat suuret investointikustannukset ja lämmitysjärjestelmän uusinta usein vasta sitten, kun se on täysin välttämätöntä. Lämmitysjärjestelmäremontti tulee eteen jossain vaiheessa kaikilla öljylämmittäjillä. Tällöin voi tulla ongelmia energiaremontin rahoituksen kanssa.


General information
State: Published
Ministry of Education publication type: D4 Published development or research report or study
Organisations: Department of Civil Engineering, Research group: Life-cycle Economics, Research group: Construction Processes, Tyrsky-Konsultointi Oy
Authors: Runsten, S., Berninger, K., Heljo, J., Sorvali, J., Kasanen, P., Vihola, J., Uotila, U.
Number of pages: 80
Publication date: 2015

Publication information
Place of publication: Helsinki
Publisher: Ympäristöministeriö
ISBN (Electronic): 978-952-11-4385-4
Original language: Finnish

Publication series
Name: Ympäristöministeriön raportteja
Publisher: Ympäristöministeriö
No.: 6/2015
ISSN (Electronic): 1796-170X
Keywords: asunto, perusparannus, lämmitysremontti, energiaköyhyys, pienituloinen, energiakustannus, lämmitystapa, rahoitus, energianeuvonta
Links:
http://www.ym.fi/fi-FI/Ajankohtaista/Uutta_tietoa_energiakoyhyydesta%2832589%29
Research output: Professional › Commissioned report

Proactive vision for strategy making

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Pori Department, Research group: Business Ecosystems, Networks and Innovations
Authors: Vanharanta, H., Kantola, J.
Number of pages: 8
Pages: 587-594
Publication date: 2015

Host publication information
Title of host publication: 6th International Conference on Applied Human Factors and Ergonomics (AHFE 2015) and the Affiliated Conferences, AHFE 2015
Publisher: Elsevier

Publication series
Name: Procedia Manufacturing
Volume: 3
ISSN (Print): 2351-9789
Electronic versions:
Proactive vision for strategy making
DOI:
10.1016/j.promfg.2015.07.272
Links:
http://urn.fi/URN:NBN:fi-tty-201606064219
Research output: Scientific - peer-review › Conference contribution
Processual knowledge production in organisations dealing with projects
The more complex and innovative the organisation, the problem or opportunity, or the technology within the projects, the more significant it will be to understand how the knowledge production within the organisations dealing with projects takes place. This means that the determination of viable approaches which ensure that knowledge production takes place continuously, to help organisations implement projects, is a very important issue. Therefore, it is suggested in this paper that process thinking that involves considering phenomena dynamically in terms of movement, activity, events, change and temporal evolution, provides a fresh approach through which we may advance our understanding of the dynamics of knowledge production. It is concluded that interaction, observation, negotiation of meaning, and languaging are processes through which knowledge production takes place in organisations. However, there is also 'infinite number' of other processes that may affect the success of knowledge production, but those ones mentioned above, are always together in effect, i.e., they are totally interdependent.

General information
State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: Pori Department
Authors: Koskinen, K. U.
Number of pages: 15
Pages: 206-220
Publication date: 2015
Peer-reviewed: Yes

Publication information
Volume: 7
Issue number: 3
ISSN (Print): 1740-2891
Ratings:
Scopus rating (2016): SJR 0.173 SNIP 0.28 CiteScore 0.28
Scopus rating (2015): SJR 0.126 SNIP 0.269 CiteScore 0.17
Scopus rating (2014): SJR 0.14 SNIP 0.16
Scopus rating (2013): SJR 0.252 SNIP 0.41
Scopus rating (2012): SJR 0.435 SNIP 0.427
Scopus rating (2011): SJR 0.21 SNIP 0.323
Scopus rating (2010): SJR 0.126 SNIP 0.435
Scopus rating (2009): SJR 0.113 SNIP 0.175
Original language: English
DOIs:
10.1504/IJPOM.2015.070789
Research output: Scientific - peer-review » Article

Public-sector as an Initiator in a Collaborative Innovation Process

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Pori Department, Research group: Business Ecosystems, Networks and Innovations
Authors: Suominen, A. H., Mäenpää, S., Breite, R.
Number of pages: 12
Publication date: 2015

Host publication information
Title of host publication: The XXVI ISPIM Innovation Conference – Shaping the Frontiers of Innovation Management – Budapest, Hungary, 14-17 June 2015
Publisher: International Society for Professional Innovation Management ISPIM
Research output: Scientific » peer-review » Conference contribution

SAFERA SERPENTINE: Safera Serpentine hankkeen loppuraportti

General information
Social media applications in external B2B transactions: An empirical analysis of the Finnish technology industry

Despite the popularity of the topic, social media research is still limited and focuses largely on the role of consumer-to-consumer (C2C) and business-to-consumer (B2C) domains (Volpentesta and Felicetti, 2012; Michaelidou et al., 2011). In many aspects, B2C social media practices are not directly useful for inter-organizational and business-to-business (B2B) purposes. The main aim of this paper is to increase the understanding of the current applications of social media in external B2B transactions. This is carried out through an extensive survey of companies in the technology industry which are operating purely in B2B markets, having only other companies as customers.

We wanted to understand how industrial B2B companies currently apply social media in their own inter-organizational applications, what potential they see for social media in this context, and what kind of support they need to better adopt social media together with their customers and partners. A population of 2488 Finnish decision makers from the Federation of Finnish Technology Industries were observed. Based on the answers of 143 different companies, 125 companies were found to wholly (100%) represent B2B markets, and these were chosen as the sample of this particular study. Studies on social media, especially survey-based studies, have not focused solely on B2B companies, particularly on the inter-organizational applications of social media in B2Bs, except for the B2B-marketing oriented study of Michaelidou et al. (2011) and the study of social media utilization in B2B relationships by Pettersson et al. (2014). This study extends these previous studies by creating new understanding of the maturity of social media integration in businesses, organizational business problems that companies perceive can be solved with social media, and approaches that can support social media adoption in B2B companies.

Managerially, the results can be used, for instance, to better understand the various possibilities of applying social media for inter-organizational use in B2Bs, which are currently only superficially understood by a significant portion of managers. This can help support and facilitate external social media use in B2Bs.
building could be designed and built according to the gained information. But the process is lacking of service abilities if a customer wants to modify the given information due to a change in circumstances, albeit such a change is easily caused due turbulent economic situations and long spans in real-estate development projects. Hence the customer perspective regarding the construction management (CM) process should be accommodated better. In this paper, the case studies of the four premises improvement projects are reported upon, where the CM process was altered to include and apply the concepts of continuous improvement and co-creation. The process documentation covered the impacts of the case project on the usability of the premises, the indoor climate conditions (carbon dioxide and temperature) metering, the time lapse cameras and the on-line user feedback system. The documentation consists of the minutes of the meetings, the financial reporting and the time tables. Both the processes and the results of the projects are analysed. Based on the key findings, some suggestions are put forth upon how to improve the CM process to better serve customer interests and quality improvement in the future.

**General information**

State: Published

Ministry of Education publication type: A1 Journal article-refereed

Organisations: Department of Civil Engineering, Research group: Construction Management, School of Architecture

Authors: Savolainen, J., Kähkönen, K., Niemi, O., Poutanen, J., Varis, E.

Number of pages: 8

Pages: 64-71

Publication date: 2015

Peer-reviewed: Yes

**Publication information**

Journal: Procedia Economics and Finance

Volume: 21

ISSN (Print): 2212-5671

Original language: English

Keywords: Co-creation, construction management, continuous improvement, customer relations management, quality management

DOIs: 10.1016/S2212-5671(15)00151-3

**Bibliographical note**

ORG=rak,1

ORG=ark,0

Source: RIS

Source-ID: urn:76EF98A938A43DE456AFD5111BF4116C

Research output: Scientific - peer-review › Article

**Sustainable and responsible freight transport through public-private collaboration: Finnish road freight responsibility model**

**Purpose**

In aviation, maritime and rail transport safety management systems are well adapted and they are fixed part of daily practices and the minimum requirements for systems are set in European regulations. However, this does not apply a road freight sector. In 2013, Finnish Transport Safety Agency (Trafi) started to develop a road freight responsibility model, which was intended to enhance safety, quality and environmental management in the Finnish road freight transport sector. The aim of this paper is to introduce the Finnish model and to summarize the main findings from the responsibility model.

**Approach**

This paper includes data and knowledge from two separate but related projects which studied responsibility and sustainability in the Finnish road freight sector. The paper combines information from several methods, but the main research method was a case study with transport companies. Complementary methods used in this paper are workshop and online survey.

**Findings**

Transport companies have different practices and attitudes related to the responsible business and the size of the company or the main service sector of the company do not always explain the differences. According to the results, this kind of new voluntary basis approach has a demand in the road freight sector and it will provide help for transport companies to develop their business.

**Value**

The paper represents a new approach of the national transport agency to develop the road freight sector. With the responsibility model Trafi aims to promote sustainable and responsible business of all sizes of transport companies with a voluntary basis approach.
The New Era of Crowdsourcing — Industrial Crowdsourcing

General information
State: Published
Ministry of Education publication type: A3 Part of a book or another research book
Organisations: Department of Information Management and Logistics, Research group: Novi, Managing digital industrial transformation (mDIT), DIGILE – Finnish Center for Science and Innovation in the Internet Economy
Authors: Kärkkäinen, H., Jussila, J., Erkinheimo, P.
Number of pages: 7
Pages: 25-31
Publication date: 2015

Host publication information
Title of host publication: Open Innovation Yearbook 2015
Place of publication: Brussel
Publisher: European Commission
Editor: Salmelin, B.
Keywords: crowdsourcing, industrial crowdsourcing
DOIs: 10.2759/92658
Research output: Scientific - peer-review › Chapter

The World Innovation Stock Exchange- shared value for individuals, business and society

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Pori Department, Research group: Business Ecosystems, Networks and Innovations
Authors: Markopoulos, E., Vanharanta, H.
Number of pages: 8
Pages: 595-602
Publication date: 2015

Host publication information
Title of host publication: 6th International Conference on Applied Human Factors and Ergonomics (AHFE 2015) and the Affiliated Conferences, AHFE 2015
Publisher: Elsevier
Three positives make one negative: Public sector is procurement

The requirement specifications are centric in the IS acquisition process, also in public sector. In addition to the regulatory factors multiple stakeholders are often involved in the procurement process. Yet their expertise varies and is often limited to a narrow sector or a specific field. For this paper, we conducted a single case study on an IS acquisition in a middle-sized city. The function nominated a project manager for the project, with little if any prior experience of IS or of their acquisition. The counterpart in the CIO’s office had that knowledge but had little domain knowledge about the requirements. The third party involved was the Procurement and Tendering office. Having specialized in serving the variety of functions in that particular field, the specific areas become inevitably omitted. All three parties argued that their requirements specifications were good, if not great. We observed how such a trident, having reported successful completion of their duties, still missed the point. The tendering resulted in little short of a disaster; two projects were contested, and lost in the market court.

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Department of Information Management and Logistics, Research group: Novi, Managing digital industrial transformation (mDIT), Tampere University of Technology
Authors: Alanne, A., Hellsten, P., Pekkola, S., Saarenpää, I.
Number of pages: 13
Pages: 321-333
Publication date: 2015

Host publication information
Title of host publication: Electronic Government : 14th IFIP WG 8.5 International Conference, EGOV 2015, Thessaloniki, Greece, August 30 -- September 2, 2015, Proceedings
Volume: 9248
Publisher: Springer Verlag
ISBN (Print): 9783319224787

Publication series
Name: Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)
Volume: 9248
ISSN (Print): 0302-9743
ISSN (Electronic): 1611-3349
Keywords: Case study, Information systems procurement, Public sector procurement
ASJC Scopus subject areas: Computer Science(all), Theoretical Computer Science
DOIs: 10.1007/978-3-319-22479-4_24

Bibliographical note
AUX=Itl, “Saarenpää, Iiris”
Source: Scopus
Source-ID: 84944749274
Research output: Scientific - peer-review > Conference contribution

TiedeAreena 2015
Jo perinteikään TiedeAreena-tapahtuman yhteydessä järjestetään tänä vuonna ensimmäistä kertaa kaikille avoin tutkimusseminaari, jossa Porin yliopistokeskuksen sekä yhteistyökumppaneiden tutkijat esittelevät Satakunnassa tehtävää tutkimusta laaja-alaisesti. Kuten yliopistokeskus, myös tutkimusseminaari on aidosti monitieteinen sisältäen sessioita pelillisyydestä, sosiaalisesta mediasta, ihmisen ja ympäristön vuorovaikutuksesta, sosiaalisesta eheydestä, yrittäjyydestä ja tutkimustyön menetelmistä.

Seminaraari tavoite on monitahoinen. Vaikka Porin yliopistokeskus on verraten pieni tiedeyhteisö, törmätään täälläkin usein ongelmaan, että emme tiedä tarpeeksi toistamme tutkimustyöstä. Seminaraarin tavoite on yhdistää samaa aihepiiriä eri tietealalojen näkökulmasta tarkastelevia tutkijoiden ja edesauttaa kenttäalojen välisestä vuorovaikutuksesta ja tutkimusmenetelmistä.

Toisaalta seminaraari on oiva mahdollisuus kuulla yliopistokeskuksen emoyliopistojen, Satakunnan ammattikorkeakouluun sekä alueen asiantuntijaorganisaatioiden tutkijoiden tekemistä. Laajalle yleisölle tapahtuma luo näytekunnan tutkimusmaailmaan.

General information
State: Published
Ministry of Education publication type: D6 Edited professional books
The responsibility model for road transport companies being developed under the leadership of the Finnish Transport Safety Agency (Trafi) is a voluntary participation management and procedure model intended to improve safety and environmentally sustainable practices in commercial transport. The present report focuses on the Excel-based interface of the responsibility model, its instructions and specimen documents of the model; however, the model as a whole extensively covers the major safety, quality and environmental matters relevant for road transport. The responsibility model is a management and procedure model that transport managers can employ to survey the current state of their enterprises, to identify strengths and development needs, to set goals, to generate reports and to adopt new practices.

The responsibility model for road transport companies has been under development at Trafi for several years; the responsibility model pilot study for road transport companies was begun in July 2013 and concluded in early 2014. After the trial study, the decision was made to continue development of the responsibility model. The follow-up study described in the present final report began in April 2014. The follow-up study was directly based on the findings and recommendations of the first-stage trial study.

The present final report consists of three sections. Chapters 1 and 2 contain an introduction to the project implementation, goals and purpose and a description of the overall functioning and purpose of the responsibility model. Chapter 3 contain the instructions for the interface and notes on their use. The instructions presented in chapter 3 are also given as a separate appendix at the end of the report. The third section, chapter 4, comprises sample forms and instruction documents together with notes on their use.
Tietämyksenhallinta osana organisaation toimintaa – hallintaa vai hämmennystä?

General information
State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: Department of Information Management and Logistics, Research group: Novi, Turku University of Applied Science, University of Vaasa
Authors: Väyrynen, H., Helander, N., Jalonen, H.
Number of pages: 16
Pages: 310-325
Publication date: 2015
Peer-reviewed: Yes
Early online date: 1 Dec 2015

Publication information
Journal: Hallinnon Tutkimus
Volume: 34
Issue number: 4
ISSN (Print): 0359-6680
Original language: Finnish
Research output: Scientific - peer-review > Article

Tietämyksenhallinta suomalaisissa yrityksissä: Loppuraportti, TSR-hanke 113295

General information
State: Published
Ministry of Education publication type: D4 Published development or research report or study
Organisations: Department of Information Management and Logistics, Research group: Novi
Authors: Helander, N., Väyrynen, H., Kukko, M., Jalonen, H.
Number of pages: 82
Publication date: 2015
Towards Business Potential of Workplace Services in Finland
People no longer work as they worked 15 years ago. One of the major changes, as Laing (2013) stated, is that the employee no longer has to go to work, but information technology brings the work to the employee. Due to the independency of work from time and place, employees are working in a new way in multiple locations. For service providers, this offers a new business field. Thus, the paper focuses on this new business opportunity. The aim of the paper is to identify the business potential to build up and elaborate the workplace service business. Interviews with national workplace service providers and international workplace experts were conducted in order to get practical insight on the topic. Based on the interviews, two development steps are required to utilise the new business opportunity: (1) the transaction-oriented way to provide workplace services should be substituted by new business models, and (2) the workplace service should be re-thought and re-designed as a service that is not solely dependent on physical space. Based on the new business model and service, a new business opportunity could be harnessed.

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Department of Information Management and Logistics, Research group: Novi, Aalto University
Authors: Jylhä, T., Vuolle, M., Nenonen, S., Virtaneva, M.
Number of pages: 6
Pages: 518-523
Publication date: 2015

Host publication information
Title of host publication: 8th Nordic Conference on Construction Economics and Organization : May 28-29 2015, Tampere, Finland
Volume: 21
Publisher: Elsevier

Publication series
Name: Procedia Economics and Finance
ISSN (Print): 2212-5671
Keywords: Workplace services, multi-locational work, co-working, business model
DOIs:
10.1016/S2212-5671(15)00207-5
Research output: Scientific - peer-review > Conference contribution

Townhouse-talotyypin rakennuskustannukset kolmen suunnitteluratkaisun taloudellisuuden analysointi

General information
State: Published
Ministry of Education publication type: A3 Part of a book or another research book
Organisations: Department of Civil Engineering
Authors: Saari, A., Tauriainen, M.
Number of pages: 4
Pages: 94-97
Publication date: 2015

Host publication information
Title of host publication: Nollaa parempi – Townhouse energiatehokkaassa asuinrakentamisessa
Publisher: Aalto-yliopisto
ISBN (Print): 978-952-60-6409-3

Publication series
Name: Aalto University publication series Crossover
No.: 9/2015
ISSN (Print): 1799-4950
ISSN (Electronic): 1799-4969
Research output: Scientific - peer-review > Chapter

Tuottavuusloikka sosiaalisen median avulla

General information
Wealthy, healthy and/or happy — what does 'ecosystem health' stand for?

The health of a software ecosystem is argued to be a key indicator of well-being, longevity and performance of a network of companies. In this paper, we address what scientific literature actually means with the concept of 'ecosystem health' by selecting relevant articles with systematic literature review. Based on the final set of 38 papers, we found that despite a common base, the term has been used to depict a wide range of hoped characteristics of a software ecosystem. However, the number of studies addressing the topic is shown to grow while empirical studies are still rare. Thus, further studies should aim to standardize the terminology and concepts in order to create a common base for future work. Further work is needed also to develop early indicators that warn and guides companies on problems with their ecosystems.
Knowledge interaction between manufacturers and research organisations for building product innovations: an exploratory case study

This thesis adds to research on construction innovation through exploring and describing knowledge interaction between product manufacturers and research organizations. A few publications deals with manufacturers' innovation activities on their own terms, although products are broadly recognised to have major impacts on the performance of the entire built environment. The research was conducted in a multilevel theoretical framework integrating the perspectives of systems of innovation, knowledge processes in manufacturing industries and knowledge interaction between companies and public research organizations. Ten product innovations were selected for a multiple case study. Cross-case synthesis was applied as the analysis technique of qualitative research data. The main themes in exploring and describing the knowledge interaction were found as to be a) development and use of research-based knowledge in product innovations, b) accumulation and diffusion of research-based knowledge and b) context and channels of knowledge interaction. The principal motivation for the knowledge interaction was found to be the need to know how a novel product would perform in its intended use in buildings, and how it should be designed and manufactured to meet the overall requirements. The regulations to design and use novel products were, however, often developed in parallel or after a technical invention. The objectives of joint innovation activities also reflected also the market expectations and governmental strategies. The thesis thus emphasized the dynamics of relationships between institutions and various actors within a system of construction innovation. A system of construction innovation is, however, not sufficient to uncover all the aspects of the knowledge interaction and even less the context of manufacturers' innovation activities. This is due to the division of the real estate and construction sector into competing value chains that exist in accord with basic framing materials. Manufacturers have ties to basic industries that are also important sources of product innovations. The industrial associations reflect this situation, as well as specialization of research and education. As a conclusion, approaches to the technology innovation systems were proposed for further research. The research identified similarities between the innovation processes of building product manufacturers and those of other manufacturing sectors. It is noteworthy however, that innovation activities were organised in several cases according to principles of concurrent engineering already decades ago. It was also observed that relationships between research and practice are of mutual benefit.
Innovaatiotoiminnan johtaminen rakennustuoteteollisuudessa

The objective of this research was to investigate how innovation is managed in the construction products industry and identify solutions to the problems found. The focus of the research was based on the researcher’s personal observations of the construction sector, especially the construction products industry, during the last four decades. These observations suggested that there is much room for improvement in innovation management, especially in strategy and creation of the optimal culture for innovation. The research, therefore, focused on challenges to management, the connection between innovation management and business strategies, and interaction between individual companies and the external innovation environment. The research method was qualitative and data were collected by theme interviews. The interviewees were primarily representatives of the construction products industry, but representatives of other parts of the value chain of construction were also interviewed. This was done in order to better understand the influence that clients of the construction products industry and the value chain have on innovation activities. The research revealed that the opinions of users and owners of properties are not given sufficient consideration in managing innovation. The construction products industry does not have a clear understanding of who the client is and, therefore, does not know whose needs it is supposed to satisfy. The construction products industry feels that the qualitative characteristics of their products are not valued by their clients and that procurement decisions are made primarily on the basis of the lowest unit price. Neither the industry nor their clients are capable of properly estimating the possible savings in overall costs from systemic innovations. The innovation activities of firms are generally driven by current strategic plans and they only develop ideas that are connected to existing or planned new businesses. Defining the competitive advantages of a potential new product, receives less attention. The search for ideas to foster innovations is poorly managed in firms – only a few of them work systematically to find new ideas. The systemic impacts of the cost effects of new ideas should be assessed in collaboration with construction company clients, based on full-scale pilot construction. In order for such collaboration to be possible, contracts are required that define how benefits and risks are to be shared and that ensure the effort is beneficial to both parties. This research is the most comprehensive investigation of innovation management in the construction products industry to date. The key conclusion is that, because innovation management plays a central role in business success, it should be given greater attention and focused on increasing the profitability of innovation activity. Creation of an internal environment that encourages innovation is essential and measures firms should take are identified in this report.

General information
State: Published
Ministry of Education publication type: G4 Doctoral dissertation (monograph)
Organisations: Department of Civil Engineering
Authors: Vesa, M.
Number of pages: 215
Publication date: 7 Nov 2014
Enterprise architecture in practice: from IT concept towards enterprise architecture leadership

Advancement of International Business Ideation as Three Recursive, Multi-Competence-Enabled Systems

The aim of this paper is to advance applied theoretical knowledge on international business (IB) ideation by designing the managing of such ideation as three recursive, multi-competence-enabled systems. The core principles of Beer’s (1985) Viable System Model are adopted for this system design task. The Viable System Model consists of five interacting sub-systems that can support a viable IB unit. The contribution of this design of the three recursive, multi-competence-enabled systems will be three novel pieces of the applied theoretical knowledge about recursivity and competences that advance the management of an IB unit as a whole and in particular that of IB ideation. For future research, I initially propose that the IB ideation (unit) is being managed the more successfully within its focal contexts, the more extensively the IB ideation is designed as a set of three recursive systems enabled by respective multi-competences. Moreover, the 3-system design may serve as the frame of reference for those compatible theorization initiatives vis-a-vis viable IB ideation management that interested competence-based management scholars will conduct in the future. I put forth the three templates to facilitate the enhancement of the IB ideation practices among leading, innovative firms and especially by the pioneering management of IB (ideation) units.

General information
State: Published
Ministry of Education publication type: A3 Part of a book or another research book
Organisations: Department of Civil Engineering
Authors: Huovinen, P.
Number of pages: 41
Pages: 337-377
Publication date: 2014
Applying performance measurement in service operations: analysis of contextual differences

General information
State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: Department of Information Management and Logistics, Department of Industrial Management, Managing digital industrial transformation (mDIT)
Authors: Jääskeläinen, A., Laihonen, H.
Number of pages: 19
Pages: 243-261
Publication date: 2014
Peer-reviewed: Yes

Publication information
Volume: 15
Issue number: 3
ISSN (Print): 1368-4892
Ratings:
Scopus rating (2016): SJR 0.215 SNIP 0.44 CiteScore 0.56
Scopus rating (2015): SJR 0.188 SNIP 0.387 CiteScore 0.36
Scopus rating (2014): SJR 0.203 SNIP 0.257 CiteScore 0.36
Scopus rating (2013): SJR 0.135 SNIP 0.247 CiteScore 0.33
Scopus rating (2012): SJR 0.156 SNIP 0.139 CiteScore 0.22
Scopus rating (2011): SJR 0.155 SNIP 0.185 CiteScore 0.31
Scopus rating (2010): SJR 0.214 SNIP 0.375
Scopus rating (2009): SJR 0.241 SNIP 0.492
Scopus rating (2008): SJR 0.158 SNIP 0.309
Scopus rating (2007): SJR 0.155 SNIP 0.263
Scopus rating (2006): SJR 0.214 SNIP 0.336
Scopus rating (2005): SJR 0.181 SNIP 0.57
Scopus rating (2004): SJR 0.199 SNIP 0.251
Scopus rating (2003): SJR 0.271 SNIP 0.434
Scopus rating (2002): SJR 0.136 SNIP 0.257
Scopus rating (2001): SJR 0.276 SNIP 0.377
Scopus rating (2000): SJR 0.161 SNIP 0.161
Scopus rating (1999): SJR 0.114 SNIP 0
Original language: English
DOIs:
10.1504/IJBPM.2014.063024

Bibliographical note
Contribution: organisation=tta,FACT1=0.5<br/>Contribution: organisation=tlo,FACT2=0.5<br/>Portfolio EDEND: 2014-08-21<br/>Publisher name: Inderscience Publishers
Source: researchoutputwizard
Source-ID: 557
Research output: Scientific - peer-review › Article

Assessing the Challenges of Creative Service Value in Supply Chains

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Department of Information Management and Logistics
Authors: Vilo, J., Ritala, P., Hemilä, J., Kallionpää, E., Rantala, J.
Number of pages: 9
Pages: 525-533
Publication date: 2014
A strategy framework for performance measurement in the public sector

State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: Department of Information Management and Logistics, Department of Industrial Management, Managing digital industrial transformation (mDIT)
Authors: Jääskeläinen, A., Laihonen, H.
Number of pages: 8
Pages: 355-362
Publication date: 2014
Peer-reviewed: Yes

Publication information
Journal: Public Money and Management
Volume: 34
Issue number: 5
ISSN (Print): 0954-0962
Ratings:
Scopus rating (2016): CiteScore 1.03 SJR 0.544 SNIP 0.918
Scopus rating (2015): SJR 0.482 SNIP 0.682 CiteScore 0.8
Scopus rating (2014): SJR 0.578 SNIP 0.843 CiteScore 0.79
Scopus rating (2013): SJR 0.497 SNIP 0.711 CiteScore 0.68
Scopus rating (2012): SJR 0.537 SNIP 0.927 CiteScore 0.65
Scopus rating (2011): SJR 0.53 SNIP 0.865 CiteScore 0.75
Scopus rating (2010): SJR 0.781 SNIP 1.264
Scopus rating (2009): SJR 0.41 SNIP 0.887
Scopus rating (2008): SJR 0.47 SNIP 0.788
Scopus rating (2007): SJR 0.66 SNIP 0.985
Scopus rating (2006): SJR 0.668 SNIP 1.034
Scopus rating (2005): SJR 0.844 SNIP 1.223
Scopus rating (2004): SJR 0.379 SNIP 0.831
Scopus rating (2003): SJR 0.674 SNIP 1.012
Scopus rating (2002): SJR 0.536 SNIP 1.132
Scopus rating (2001): SJR 0.589 SNIP 0.897
Scopus rating (2000): SJR 0.746 SNIP 0.892
Scopus rating (1999): SJR 0.677 SNIP 0.83
Original language: English
DOIs: 10.1080/09540962.2014.945807
Creating Value through Business Models in Open Source Software

This paper explores how the use of a business model enables value creation in an Open Source Software (OSS) environment. Open Source offers one possibility for firms that are continuously looking for new opportunities and ways of organizing their business activities to increase the amount of value they can appropriate through their capabilities. We argue that this value can be attained by analysing value creation logic and the elements of business models. We demonstrate how value is created through business model elements and provide a list of questions that can help managers in their considerations with Open Source Software.

Crowdsourcing in Strategic Management

This paper examines how crowdsourcing can be used in strategic management. It explores the potential impacts of crowdsourcing on organizational decision-making and provides a framework for understanding the strategic implications of crowdsourcing.

Bibliographical note

ORG=pla,0.5
ORG=tlo,0.5
Research output: Scientific - peer-review > Article
Degree of Commitment Among Students at a Technological University - Testing a New Research Instrument

Democratic Culture Paradigm for Organizational Management and Leadership Strategies - The Company Democracy Model
Development of key performance indicators and impact assessment for SHOKs

General information
State: Published
Ministry of Education publication type: D4 Published development or research report or study
Organisations: Department of Information Management and Logistics
Authors: Vuolle, M., Lönnqvist, A., Schiuma, G.
Number of pages: 47
Publication date: 2014

Publication information
Place of publication: Helsinki
Publisher: Työ- ja elinkeinoministeriö
Original language: English

Publication series
Name: Työ- ja elinkeinoministeriön julkaisuja. Innovaatio
Publisher: Työ- ja elinkeinoministeriö
Volume: 27
ISSN (Electronic): 1797-3562
Links:

Bibliographical note
Contribution: organisation=tlo,FACT1=1<br/>Portfolio EDEND: 2014-10-13
Source: researchoutputwizard
Source-ID: 1768
Research output: Professional › Commissioned report

Distinctive features of service performance measurement

General information
State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: Department of Information Management and Logistics, Department of Industrial Management, Managing digital industrial transformation (mDIT)
Authors: Jääskeläinen, A., Laihonen, H., Lönnqvist, A.
Number of pages: 21
Pages: 1466-1486
Publication date: 2014
Peer-reviewed: Yes

Publication information
Volume: 34
Issue number: 12
ISSN (Print): 0144-3577
Ratings:
Scopus rating (2016): SJR 2.191 SNIP 2.075 CiteScore 4.41
Scopus rating (2015): SJR 1.996 SNIP 2.053 CiteScore 3.63
Scopus rating (2014): SJR 1.946 SNIP 1.615 CiteScore 3.15
Scopus rating (2013): SJR 1.36 SNIP 1.697 CiteScore 2.6
Scopus rating (2012): SJR 1.898 SNIP 1.798 CiteScore 2.83
Scopus rating (2011): SJR 1.109 SNIP 1.667 CiteScore 2.64
Scopus rating (2010): SJR 1.291 SNIP 1.719
Scopus rating (2009): SJR 1.318 SNIP 1.564
Scopus rating (2008): SJR 1.349 SNIP 1.561
Scopus rating (2007): SJR 1.295 SNIP 1.42
Scopus rating (2006): SJR 0.844 SNIP 1.278
Scopus rating (2005): SJR 1.118 SNIP 1.693
Scopus rating (2004): SJR 1.185 SNIP 1.571
Scopus rating (2003): SJR 1.05 SNIP 1.526
Scopus rating (2002): SJR 1.026 SNIP 1.305
Scopus rating (2001): SJR 0.622 SNIP 1.045
Scopus rating (2000): SJR 0.677 SNIP 1.456
Scopus rating (1999): SJR 0.465 SNIP 0.866

Original language: English
DOIs:
10.1108/IJOPM-02-2013-0067

Bibliographical note
Contribution: organisation=tta,FACT1=0.5<br/>Contribution: organisation=tlo,FACT2=0.5<br/>Portfolio EDEND: 2014-10-31<br/>Publisher name: Emerald Group Publishing Ltd.
Source: researchoutputwizard
Source-ID: 559
Research output: Scientific - peer-review › Article

Energiatehokkaan rakentamisen parhaat käytännöt

General information
State: Published
Ministry of Education publication type: E1 Popularised article, newspaper article
Organisations: Department of Civil Engineering
Authors: Teriö, O., Sorri, J.
Number of pages: 1
Pages: 24-24
Publication date: 2014
Peer-reviewed: Unknown

Publication information
Journal: M+
Issue number: 3
ISSN (Print): 1237-3125
Original language: Finnish
Links:
http://www.motiva.fi/ajankohtaista/m_-lehti/motiva_m_2014/m_3_2014/energiatehokkaan_rakentamisen_parhaat_kaytannot.6943.news

Bibliographical note
Contribution: organisation=rak,FACT1=1<br/>Portfolio EDEND: 2015-01-08<br/>Publisher name: Motiva Oy
Source: researchoutputwizard
Source-ID: 1613
Research output: General public › Article

Equity Crowdfunding - A Finnish Case Study

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Department of Information Management and Logistics
Authors: Lasrado, L., Lugmayr, A.
Number of pages: 6
Pages: 1-6
Publication date: 2014

Host publication information
Title of host publication: 2014 IEEE International Conference on Multimedia and Expo Workshops ICMEW 2014, July 14-18, 2014, Chengdu, China
Publisher: IEEE
ISBN (Print): 978-1-4799-4717-1
Frameworks and Paradigms for the World Innovation Stock Exchange and the WhyNot Innovation Labs

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Pori Department
Authors: Markopoulos, E., Vanharanta, H.
Number of pages: 9
Pages: 1046-1054
Publication date: 2014

Host publication information
Title of host publication: Proceedings of the 11th International Conference on Innovation and Management, November 17-19, 2014, Vaasa, Finland
Place of publication: Wuhan, China
Publisher: Wuhan University of Technology Press
Editors: Yang, L., Kantola, J., de Hoyos, A., Kaminishi, K., Duysters, G.
Links:

Identifying customer value in supply chains - the process of analysis

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Department of Information Management and Logistics
Authors: Kallionpää, E., Rantala, J., Vilko, J., Hemilä, J.
Number of pages: 8
Pages: 160-167
Publication date: 2014

Host publication information
Place of publication: Nottingham, UK
Publisher: Nottingham University Business School
ISBN (Print): 978-0-85358-305-9

Publication series
Name: International symposium on logistics
Links:
http://www.isl21.org

Bibliographical note
Contribution: organisation=tlo,FACT1=1<br/>Portfolio EDEND: 2014-10-23<br/>Publisher name: IEEE
Source: researchoutputwizard
Source-ID: 890
Research output: Scientific - peer-review › Conference contribution
**Innovation diffusion in SME networks - sustainability via green ICT pilots**

**General information**
State: Published
Organisations: Pori Department
Authors: Aramo-Immonen, H., Leppäniemi, J., Soini, J.
Number of pages: 12
Pages: 1-12
Publication date: 2014

**Host publication information**
Title of host publication: Innovation for Sustainable Economy & Society, XXV ISPIM Conference, 8-11 June 2014, Dublin, Ireland

**Bibliographical note**
Contribution: organisation=pla
Source-ID: 641

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**Joukkoistamisen uusi aalto: Teollisten yritysten joukkoistaminen**

Tämän raportin tarkoitus on tuoda yrityslahdoisesti esille tutkimuksessa esiin tullutta tietoa ja näkemyskiä tähän asti vähän ymmärretyistä ja tutkittua joukkoistamisen sovellusalueesta ja sen uusista mahdollisuuksista, teollisten yritysten joukkoistamisesta.

Tätä aiheutettua voineen hyvällä syylillä kutsua joukkoistamisen uudeksi vaiheeksi tai aalloksi, koska aiemmin yritysten joukkoistamistoimenpiteet ja joukkoistamista koskevat tutkimukset ovat voinut jo国情asta keskittyneet kuluttajayritysten ja kuluttajien kautta tapahtuvan joukkoistamisen malleihin ja toimintatapoihin. Tällaisissa joukkoistamishankkeissa on useimmiten ollut kyse melko vähäistä ja erikoistumaton asiantuntemusta ja osaamista vaativa yksinkertaisista joukkoistamistehdästä, mutta se, minkä tavan tulojärjestelmä on tällöin käytetty, on voinut tehdä tällahden hyötyjä ja teollisuutta neuvonanneen joukkoistamisesta.

Viime aikoina monet on opetettu edelläkävijyysvaikutukset ovat kuitenkin osoittaneet, että hyvinkin syvällistä ja erikoistunutta asiantuntemusta ja osaamista vaativa joukkoistaminen on voimakkaasti keskittyneet teollisten yritysten joukkoistamisesta.

Tässä raportissa keskitytään erityisesti teollisten yritysten joukkoistamisesta ja sen sovelluksessa ja toimintatapoihin. Tällaisissa joukkoistamishankkeissa on useimmiten ollut kyse melko vähäistä ja erikoistumatonta asiantuntemusta ja osaamista vaativista yksinkertaisista joukkoistamistoimenpiteistä, mutta se, minkä tavan tulojärjestelmä on tällöin käytetty, on voinut tehdä tällahden hyötyjä ja teollisuutta neuvonanneen joukkoistamisesta. Viime aikoina monet on opetettu edelläkävijyysvaikutukset ovat kuitenkin osoittaneet, että hyvinkin syvällistä ja erikoistunutta asiantuntemusta ja osaamista vaativa joukkoistaminen on voimakkaasti keskittyneet teollisten yritysten joukkoistamisesta.

Viime aikoina monet on opetettu edelläkävijyysvaikutukset ovat kuitenkin osoittaneet, että hyvinkin syvällistä ja erikoistunutta asiantuntemusta ja osaamista vaativa joukkoistaminen on voimakkaasti keskittyneet teollisten yritysten joukkoistamisesta. Siinä tapauksessa, että joukkoistaminen on hyötyiksi ja teollisuutta neuvonanneen joukkoistamisesta, se on voinut tehdä tällahden hyötyjä ja teollisuutta neuvonanneen joukkoistamisesta.

Tässä raportissa keskitytään erityisesti teollisten yritysten joukkoistamisesta ja sen sovelluksessa ja toimintatapoihin. Tällaisissa joukkoistamishankkeissa on useimmiten ollut kyse melko vähäistä ja erikoistumatonta asiantuntemusta ja osaamista vaativista yksinkertaisista joukkoistamistoimenpiteistä, mutta se, minkä tavan tulojärjestelmä on tällöin käytetty, on voinut tehdä tällahden hyötyjä ja teollisuutta neuvonanneen joukkoistamisesta. Viime aikoina monet on opetettu edelläkävijyysvaikutukset ovat kuitenkin osoittaneet, että hyvinkin syvällistä ja erikoistunutta asiantuntemusta ja osaamista vaativa joukkoistaminen on voimakkaasti keskittyneet teollisten yritysten joukkoistamisesta. Siinä tapauksessa, että joukkoistaminen on hyötyiksi ja teollisuutta neuvonanneen joukkoistamisesta, se on voinut tehdä tällahden hyötyjä ja teollisuutta neuvonanneen joukkoistamisesta.

Viime aikoina monet on opetettu edelläkävijyysvaikutukset ovat kuitenkin osoittaneet, että hyvinkin syvällistä ja erikoistunutta asiantuntemusta ja osaamista vaativa joukkoistaminen on voimakkaasti keskittyneet teollisten yritysten joukkoistamisesta. Siinä tapauksessa, että joukkoistaminen on hyötyiksi ja teollisuutta neuvonanneen joukkoistamisesta, se on voinut tehdä tällahden hyötyjä ja teollisuutta neuvonanneen joukkoistamisesta.
Knowledge Management Practices in Large Companies

General Information
State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: Department of Information Management and Logistics, Research group: Novi, University of Vaasa
Authors: Väyrynen, H., Helander, N., Kukko, M.
Number of pages: 17
Pages: 56-72
Publication date: 2014
Peer-reviewed: Yes
Early online date: 1 Jan 2014

Publication information
Journal: The Macrotheme Review
Volume: 3
Issue number: 9
Article number: 3(9)
ISSN (Print): 1848-4735
Original language: English
Keywords: Knowledge Management, practices, survey, large companies
Electronic versions:
Knowledge Management Practices in Large Companies

Links:

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Versio ok 20.4.2016 /KK
Research output: Scientific - peer-review › Article

Knowledge That Matters: Identifying Regional Knowledge Assets of the Tampere Region

General information
State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: Department of Information Management and Logistics
Authors: Lönnqvist, A., Käpylä, J., Salonius, H., Yigitcanlar, T.
Number of pages: 19
Pages: 2011-2029
Publication date: 2014
Peer-reviewed: Yes

Publication information
Journal: European Planning Studies
Volume: 22
Issue number: 10
ISSN (Print): 0965-4313
Ratings:
Scopus rating (2016): SJR 0.976 SNIP 1.196 CiteScore 1.79
Scopus rating (2015): SJR 0.797 SNIP 1.165 CiteScore 1.65
Scopus rating (2014): SJR 0.859 SNIP 1.194 CiteScore 1.43
Scopus rating (2013): SJR 0.713 SNIP 1.118 CiteScore 1.31
Scopus rating (2012): SJR 0.663 SNIP 1.017 CiteScore 1.09
Scopus rating (2011): SJR 0.679 SNIP 0.924 CiteScore 1.01
Scopus rating (2010): SJR 0.786 SNIP 1.036
Scopus rating (2009): SJR 0.772 SNIP 0.915
Scopus rating (2008): SJR 0.752 SNIP 1.138
Scopus rating (2007): SJR 0.786 SNIP 1.045
Scopus rating (2006): SJR 0.74 SNIP 1.14
Scopus rating (2005): SJR 0.784 SNIP 0.881
Scopus rating (2004): SJR 0.812 SNIP 1.007
Scopus rating (2003): SJR 0.62 SNIP 0.874
Scopus rating (2002): SJR 0.399 SNIP 0.646
Scopus rating (2001): SJR 0.776 SNIP 1.036
Scopus rating (2000): SJR 0.626 SNIP 0.64
Scopus rating (1999): SJR 0.631 SNIP 1.165
Original language: English
DOIs:
10.1080/09654313.2013.814621

Bibliographical note
Contribution: organisation=tlo,FACT1=1<br/>Portfolio EDEND: 2015-01-13<br/>Publisher name: Routledge
Source: researchoutputwizard
Source-ID: 966
Research output: Scientific - peer-review › Article

Lääke julkisen palvelun kipuihin

General information
State: Published
Ministry of Education publication type: E1 Popularised article, newspaper article
Organisations: Department of Information Management and Logistics
Managing a City With Knowledge - Four Success Factors

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Department of Information Management and Logistics
Authors: Laihonen, H., Mäntylä, S.
Number of pages: 5
Pages: 202-206
Publication date: 2014

Host publication information
Place of publication: Tallinn, Estonia
Publisher: Tallinn University
ISBN (Print): 978-9949-29-170-0

Publication series
Name: Knowledge cities world summit
Links:

Bibliographical note
Contribution: organisation=tlo,FACT1=1<br/>Portfolio EDEND: 2014-10-07<br/>Publisher name: Tallinn University
Source: researchoutputwizard
Source-ID: 874
Research output: Scientific › peer-review › Conference contribution

Maturity assessment for implementing and using product lifecycle management in project-oriented engineering companies

Product lifecycle management (PLM) is a systematic and holistic way to approach challenges that exist in managing product-related information along a product's lifecycle from product design to its disposal. There is an established set of information management approaches that address important subsets of lifecycle information management challenges, e.g., product data management (PDM), customer relationship management (CRM) and enterprise resource planning (ERP). A common characteristic of PLM is that implementation is a very challenging and complex long-term process, requiring changes in organisation, systems, conventions and importantly, skills and capabilities. The aim of this paper is to discuss the issue of PLM maturity assessment and its use and application in the specific industrial context of project-oriented engineering companies. Within this context, the empirical part of the paper studies the usefulness and tailoring needs of generic capability maturity assessment in implementing and facilitating PLM.

General information
State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: Department of Information Management and Logistics, Research group: Novi, Augmented Human Activities (AHA), Managing digital industrial transformation (mDIT), Lappeenranta University of Technology
Authors: Kärkkäinen, H., Myllärniemi, J., Okkonen, J., Silventoinen, A.
Measuring performance of a service system - from organizations to customer-perceived performance

General information
State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: Department of Information Management and Logistics, Department of Industrial Management, Managing digital industrial transformation (mDIT)
Authors: Laihonen, H., Jääskeläinen, A., Pekkola, S.
Number of pages: 15
Pages: 73-86
Publication date: 2014
Peer-reviewed: Yes

Publication information
Journal: Measuring Business Excellence
Volume: 18
Issue number: 3
ISSN (Print): 1368-3047
Ratings:
Scopus rating (2016): SJR 0.479 SNIP 0.806 CiteScore 1.38
Scopus rating (2015): SJR 0.329 SNIP 1.22 CiteScore 1.32
Scopus rating (2014): SJR 0.42 SNIP 0.896 CiteScore 1.1
Scopus rating (2013): SJR 0.423 SNIP 0.953 CiteScore 1.36
Scopus rating (2012): SJR 0.269 SNIP 1.126 CiteScore 0.99
Scopus rating (2011): SJR 0.417 SNIP 1.041 CiteScore 1.04
Scopus rating (2010): SJR 0.233 SNIP 0.41
Scopus rating (2009): SJR 0.325 SNIP 0.717
Scopus rating (2008): SJR 0.246 SNIP 0.659
Scopus rating (2007): SJR 0.196 SNIP 0.224
Scopus rating (2006): SJR 0.233 SNIP 0.408
Scopus rating (2005): SJR 0.173 SNIP 0.292
Scopus rating (2004): SJR 0.259 SNIP 0.26
Scopus rating (2003): SJR 0.173 SNIP 0.27
Scopus rating (2002): SJR 0.122 SNIP 0.138
Negative Customer Experiences and Intellectual Liabilities in Construction Industry

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Department of Information Management and Logistics
Authors: Laihonen, H., Vuolle, M., Käpylä, J.
Number of pages: 7
Pages: 274-280
Publication date: 2014

Host publication information
Title of host publication: 11th International Conference on Intellectual Capital, Knowledge Management and Organisational Learning, ICICKM 2014, November 6-7, 2014, Sydney, Australia
Place of publication: Reading, UK
Publisher: Academic Conferences and Publishing International Limited
Editors: Rooney, J., Murthy, V.
ISBN (Print): 978-1-910309-71-1

Publication series
Name: International Conference on Intellectual Capital, Knowledge Management and Organisational Learning
ISSN (Print): 2048-9802
ISSN (Electronic): 2048-9811

Bibliographical note
Contribution: organisation=tlo,FACT1=1<br/>Portfolio EDEND: 2014-11-17<br/>Publisher name: Academic Conferences and Publishing International Limited
Source: researchoutputwizard
Source-ID: 878
Research output: Scientific - peer-review › Conference contribution

New era of Business Analytics - Making sense of business ecosystems

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Department of Information Management and Logistics, Department of Mathematics, Managing digital industrial transformation (mDIT)
Authors: Jussila, J., Kärkkäinen, H., Kortelainen, S., Huhtamäki, J., Aho, T., Tebest, T.
Number of pages: 3
Pages: 276-278
Publication date: 2014

Host publication information
Title of host publication: Academic MindTrek Conference 2014, Tampere, Finland, November 4-6, 2014
Place of publication: New York, NY
Publisher: ACM
Editors: Lugmayr, A., Franssila, H., Paavilainen, J.
ISBN (Print): 978-1-4503-3006-0

Publication series
Name: MindTrek Conference
DOIs: 10.1145/2676467.2676517

Bibliographical note
Contribution: organisation=tlo,FACT1=0.67<br/>Contribution: organisation=mat,FACT2=0.33<br/>Portfolio EDEND: 2014-12-31<br/>Publisher name: ACM
Source: researchoutputwizard
Source-ID: 622
Research output: Scientific - peer-review › Conference contribution
Opiskelijan tie fuksista asiantuntijaksi - osaamisen itsearviointi osana koulutuksen laadun varmistusta. TTY:n tietojohtamisen ja tuotantotalouden opiskelijoiden itsearviointikyselyn tuloksia

Social Media Based Value Creation in Innovation Community in Mechanical Engineering Industry

Social media and crowdsourcing are becoming increasingly important not only for business-to-consumer (B2C) companies, in which context they have resulted in relatively large and fast-growing research body, but increasingly also to the development of business-to-business (B2B) products and innovations. However, academic research on the use of social media and crowdsourcing for the value creation of industrial companies and their new product development is almost non-existent. Compared to B2C companies, the B2Bs are e.g. challenged with far smaller number of customers and experts that could be utilised as crowdsourcing resources in innovation. B2Bs also face for instance various IPR and information security issues regarding product related knowledge. In addition, the development of complex industrial products often require large amounts of in-depth expertise and the crowdsourcing tasks may be very challenging in comparison to the usually simple tasks related to B2C and consumer crowdsourcing. The lack of understanding of social
media in B2B context results in many restrictions and doubts related to B2B crowdsourcing. Novel systematic ways of value creation are needed in regard to the new product development (NPD) of B2B companies. In order to enable the crowdsourcing companies to efficiently make use of the crowdsourced ideas and concepts, it is essential to motivate the various different outside actors to share their needed in-depth expertise. In order to find out how social media and crowdsourcing can be used to create value for the development of complex B2B product in manufacturing industry, we selected a single case study research method. The selected single case represents a unique case regarding social media and crowdsourcing use in the development of complex B2B products. The data was collected in two stages - beginning with a netnographic participant observation in an online environment and followed by a semi-structured interview complementing and confirming the preliminary analysis. The interviews were based on the previously collected data. The analysis and collection of data occurred iteratively. In order to understand the overall patterns of value exchange and the value conversion between different actors, the case study data was analysed using Allee’s Value Network Analysis method. The findings of the paper benefit manufacturing companies that are planning, designing, selecting and reviewing suitable social media based crowdsourcing communities to support their NPD. Manufacturing companies can learn from the case study and use it as a blueprint for their own crowdsourcing implementations, especially in the case of complex crowdsourcing tasks of industrial companies.
Social media utilization in business-to-business relationships of technology industry firms

Even today, it is a fairly common argument in business-to-business companies, especially in traditional industrial companies, that social media is only useful in the business-to-consumer sector. The perceived challenges, opportunities and social media use cases in business-to-business sector have received little attention in the literature. Therefore, this paper focuses on bridging this gap with a survey of social media use cases, opportunities and challenges in industrial business-to-business companies. The study also examines the essential differences between business-to-consumer and business-to-business in these respects. The paper starts by defining social media and Web 2.0, and then characterizes social media in business, and social media in business-to-business. Finally, we present and analyze the results of our empirical survey of 125 business-to-business companies in the Finnish technology industry sector. This paper suggests that there is a significant gap between the perceived potential of social media and social media use with customers and partners in business-to-business companies, and identifies potentially effective ways to reduce the gap.

General information
State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: Department of Information Management and Logistics, Pori Department, Managing digital industrial transformation (mDIT)
Authors: Jussila, J. J., Kärkkäinen, H., Aramo-Immonen, H.
Number of pages: 8
Pages: 606-613
Publication date: 2014
Peer-reviewed: Yes

Publication information
Journal: Computers in Human Behavior
Volume: 30
ISSN (Print): 0747-5632
Ratings:
Scopus rating (2016): CiteScore 4.54 SJR 1.595 SNIP 2.137
Scopus rating (2015): SJR 1.556 SNIP 2.123 CiteScore 4.22
Scopus rating (2014): SJR 1.519 SNIP 2.327 CiteScore 4.16
Scopus rating (2013): SJR 1.727 SNIP 2.531 CiteScore 4.16
Scopus rating (2012): SJR 1.528 SNIP 2.099 CiteScore 3.47
Scopus rating (2011): SJR 1.492 SNIP 2.083 CiteScore 3.67
Scopus rating (2010): SJR 1.2 SNIP 1.695
Scopus rating (2009): SJR 0.881 SNIP 1.533
Scopus rating (2008): SJR 1.016 SNIP 1.837
Scopus rating (2007): SJR 1.016 SNIP 2.321
Scopus rating (2006): SJR 0.715 SNIP 1.604
Scopus rating (2005): SJR 0.731 SNIP 1.574
Scopus rating (2004): SJR 0.56 SNIP 1.371
Scopus rating (2003): SJR 0.505 SNIP 1.437
Summary of pilot cases. New ways of working

General information
State: Published
Ministry of Education publication type: D4 Published development or research report or study
Organisations: Department of Information Management and Logistics
Authors: Nykänen, E., Laarni, J., Määttä, H., Raji, A., Sundqvist, A., Lonka, H., Mattila, P., Palvalin, M.
Number of pages: 32
Publication date: 2014

Publication information
Place of publication: Espoo
Publisher: VTT
Original language: English

Publication series
Name: VTT Technology
Publisher: VTT
Volume: 177
ISSN (Print): 2242-1211
ISSN (Electronic): 2242-122X
Links:

Supply chain as an autopoietic learning system

General information
State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: Pori Department
Authors: Breite, R., Koskinen, K. U.
Number of pages: 7
Pages: 10-16
Publication date: 2014
Peer-reviewed: Yes

Publication Information
Journal: Supply Chain Management: an International Journal
The role of management accounting actors in the project business network

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Pori Department
Authors: Siivonen, S., Aramo-Immonen, H.
Number of pages: 15
Pages: 1-15
Publication date: 2014

Host publication information
Title of host publication: Manufacturing Accounting Research Conference, MAR 2014, June 11-13, 2014, Copenhagen, Denmark

Bibliographical note
Contribution: organisation=pla,FACT1=1<br/>Portfolio EDEND: 2014-12-16
Source: researchoutputwizard
Source-ID: 1505
Research output: Scientific - peer-review › Conference contribution

Top management’s perception of knowledge management in a vocational education and training organization in Finland

General information
State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: Department of Information Management and Logistics

Bibliographical note
Contribution: organisation=pla,FACT1=1<br/>Portfolio EDEND: 2015-01-13
Publisher name: Emerald Group Publishing Limited
Source: researchoutputwizard
Source-ID: 193
Research output: Scientific - peer-review › Article
Value Creation in Business-To-Business Crowd Sourcing

General information
State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: Department of Information Management and Logistics
Authors: Helander, N., Kärkkäinen, H., Jussila, J.
Number of pages: 12
Pages: 28-39
Publication date: 2014
Peer-reviewed: Yes

Publication information
Journal: International Journal of Knowledge Society Research
Volume: 5
Issue number: 1
ISSN (Print): 1947-8429
Original language: English
Electronic versions:
jussila IJKSR 5(1) article
DOIs:
10.4018/ijksr.2014010103
Links:
http://urn.fi/URN:NBN:fi/tty-20160628431
http://www.igi-global.com/article/value-creation-in-business-to-business-crowd-sourcing/113735#abstract

Bibliographical note
Contribution: organisation=tlo,FACT1=1
Portfolio EDEND: 2014-12-31
Source: researchoutputwizard
Source-ID: 451
Research output: Scientific - peer-review › Article

Value creation in product-service supply networks

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Department of Information Management and Logistics
Authors: Hemilä, J., Vilko, J., Kallionpää, E., Ranta, J.
Number of pages: 8
Pages: 168-175
Publication date: 2014

Host publication information
Place of publication: Nottingham, UK
Publisher: Nottingham University Business School
ISBN (Print): 978-0-85358-305-9

Publication series
Name: International symposium on logistics
Value creation through measurement of innovation capability - An intellectual capital management perspective

General information
State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: Department of Information Management and Logistics
Authors: Pekkola, S., Saunila, M., Sillanpää, V., Ukko, J., Parjanen, S., Salminen, J., Mäkimattila, M., Rantala, T.
Number of pages: 17
Pages: 196-212
Publication date: 2014
Peer-reviewed: Yes

Publication information
Journal: International Journal of Intelligent Enterprise
Volume: 2
Issue number: 2-3
ISSN (Print): 1745-3240
Ratings:
Scopus rating (2016): SJR 0.237 SNIP 0.225 CiteScore 0.68
Scopus rating (2015): SJR 0.201 SNIP 0.438 CiteScore 0.52
Scopus rating (2014): SJR 0.172 SNIP 0.334 CiteScore 0.46
Scopus rating (2013): SJR 0.183 SNIP 0.27 CiteScore 0.5
Scopus rating (2012): SJR 0.108 SNIP 0.907 CiteScore 0.5
Scopus rating (2011): SJR 0.105 SNIP 0 CiteScore 0
Scopus rating (2010): SJR 0.15 SNIP 0.169
Scopus rating (2009): SJR 0.104 SNIP 0
Scopus rating (2008): SJR 0.104 SNIP 0
Original language: English
DOI:
10.1504/IJIE.2014.066675

Visualizing informal learning behavior from conference participants Twitter data

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Department of Information Management and Logistics, Pori Department, Department of Mathematics
Authors: Aramo-Immonen, H., Jussila, J., Huhtamäki, J.
Number of pages: 8
Pages: 603-610
Publication date: 2014

Host publication information
Title of host publication: Second International Conference on Technological Ecosystems for Enhancing Multiculturality, TEEM 2014, Salamanca, Spain, October 1-3, 2014
Place of publication: New York, NY
What is the Role of Knowledge Management in Establishing the Effectiveness of Public Welfare Services?

General information
State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: Department of Information Management and Logistics
Authors: Laihonen, H., Sillanpää, V.
Number of pages: 10
Pages: 112-121
Publication date: 2014
Peer-reviewed: Yes

Publication information
Journal: Knowledge and Process Management
Volume: 21
Issue number: 2
ISSN (Print): 1092-4604
Ratings:
Scopus rating (2016): SJR 0.333 SNIP 0.596 CiteScore 1.01
Scopus rating (2015): SJR 0.338 SNIP 0.688 CiteScore 0.85
Scopus rating (2014): SJR 0.364 SNIP 1.03 CiteScore 1.27
Scopus rating (2013): SJR 0.49 SNIP 0.667 CiteScore 1.12
Scopus rating (2012): SJR 0.384 SNIP 0.8 CiteScore 0.72
Scopus rating (2011): SJR 0.234 SNIP 0.337 CiteScore 0.64
Scopus rating (2010): SJR 0.172 SNIP 0.334
Original language: English
DOIs:
10.1002/kpm.1438
Links:
http://www.wileyonlinelibrary.com

Bibliographical note
Contribution: organisation=pla,FACT1=0.34<br/>Contribution: organisation=tlo,FACT2=0.33<br/>Contribution: organisation=mat,FACT3=0.33<br/>Portfolio EDEND: 2014-12-30<br/>Publisher name: ACM
Source: researchoutputwizard
Source-ID: 114
Research output: Scientific - peer-review › Article

4th EuroITV 2013 Workshop on Interactive Digital TV in Emergent Economies - Thinking Outside the TV Box

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Department of Information Management and Logistics
Authors: de Lucena Jr., V. F., Lugmayr, A., Yu, Z., Pal, A.
Number of pages: 2
Pages: 175-176
Publication date: 2013
Ambient media today and tomorrow - Ambient media today and tomorrow - What have ambient media in common? What are ambient media today? Where will ambient media be in 2020?

General information
State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: Department of Information Management and Logistics
Authors: Lugmayr, A., Serral, E., Scherp, A., Pogorelc, B., Mustaquim, M.
Number of pages: 31
Publication date: 2013
Peer-reviewed: Yes

Publication information
Journal: Multimedia Tools and Applications
ISSN (Print): 1380-7501
Ratings:
Scopus rating (2016): SJR 0.396 SNIP 0.775 CiteScore 1.19
Scopus rating (2015): SJR 0.354 SNIP 0.941 CiteScore 0.95
Scopus rating (2014): SJR 0.386 SNIP 1.295 CiteScore 1.33
Scopus rating (2013): SJR 0.382 SNIP 1.303 CiteScore 1.33
Scopus rating (2012): SJR 0.388 SNIP 1.338 CiteScore 1.34
Scopus rating (2011): SJR 0.364 SNIP 1.346 CiteScore 1.41
Scopus rating (2010): SJR 0.419 SNIP 1.134
Scopus rating (2009): SJR 0.351 SNIP 0.939
Scopus rating (2008): SJR 0.305 SNIP 0.763
Scopus rating (2007): SJR 0.262 SNIP 1.097
Scopus rating (2006): SJR 0.268 SNIP 0.836
Scopus rating (2005): SJR 0.221 SNIP 0.659
Scopus rating (2004): SJR 0.312 SNIP 0.606
Scopus rating (2003): SJR 0.357 SNIP 1.038
Scopus rating (2002): SJR 0.4 SNIP 1.063
Scopus rating (2001): SJR 0.248 SNIP 0.467
Scopus rating (2000): SJR 0.292 SNIP 0.8
Scopus rating (1999): SJR 0.437 SNIP 0.753
Original language: English
DOIs:
10.1007/s11042-012-1346-z

Bibliographical note
Published online: 23 February 2013<br/>Contribution: organisation=tlo,FACT1=1<br/>Portfolio EDEND: 2013-11-29<br/>Publisher name: Springer
Source: researchoutputwizard
Source-ID: 2825
Analysing the impacts of ICT on knowledge work productivity

General information
State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: Department of Information Management and Logistics, Institute of Society and Space (SOCIS)
Authors: Palvalin, M., Lönnqvist, A., Vuolle, M.
Number of pages: 13
Pages: 545-557
Publication date: 2013
Peer-reviewed: Yes

Publication information
Journal: Journal of Knowledge Management
Volume: 17
Issue number: 4
ISSN (Print): 1367-3270
Ratings:
Scopus rating (2016): SJR 1.138 SNIP 2.131 CiteScore 3.48
Scopus rating (2015): SJR 1.224 SNIP 2.239 CiteScore 3.06
Scopus rating (2014): SJR 1.134 SNIP 2.357 CiteScore 2.87
Scopus rating (2013): SJR 0.952 SNIP 1.986 CiteScore 2.8
Scopus rating (2012): SJR 0.959 SNIP 1.9 CiteScore 2.58
Scopus rating (2011): SJR 0.859 SNIP 2.142 CiteScore 2.13
Scopus rating (2010): SJR 0.671 SNIP 1.397
Scopus rating (2009): SJR 0.759 SNIP 1.478
Scopus rating (2008): SJR 0.962 SNIP 1.683
Scopus rating (2007): SJR 0.593 SNIP 1.045
Scopus rating (2006): SJR 0.345 SNIP 0.848
Scopus rating (2005): SJR 0.23 SNIP 0.381
Scopus rating (2004): SJR 0.253 SNIP 0.706
Scopus rating (2003): SJR 0.256 SNIP 0.65
Scopus rating (2002): SJR 0.261 SNIP 0.652
Scopus rating (2001): SJR 0.268 SNIP 0.565
Scopus rating (2000): SJR 0.132 SNIP 0.111
Scopus rating (1999): SJR 0.1 SNIP 0
Original language: English
Electronic versions:
Full paper
DOIs:
10.1108/JKM-03-2013-0113
Links:
http://urn.fi/URN:NBN:fi:ttty-201603183677

Bibliographical note
Contribution: organisation=tlo,FACT1=1<br/>Portfolio EDEND: 2013-09-29<br/>Publisher name: Emerald Group
Publishing
Source: researchoutputwizard
Source-ID: 3090
Research output: Scientific - peer-review › Article

Applying "Design Thinking" in the context of media management education

General information
State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: Department of Information Management and Logistics, Department of Electronics and Communications Engineering
Arvoa palvelutuotannon mittareista

Tämä opas järjestää ja päivittää palvelualan liittyvää mitaatamisosaamista. Mitätamien nähden on ensisijaisesti palveluiden
johtamisen ja arvonluontiprosessin kehittämisen apuvälineenä. Näkökulmiksi valitaan asiakaslähtöisyys ja
palvelujärjestelmät. Lisäksi oppaassa korostetaan henkilöstön roolia mittareiden kehitysprojektien menestyksen kunnanä. Opas
auttaa päivittämään oman organisaation mittarit palvelualan yhteiskunnan vaatimuksiin. Se tarjoaa konkreettisia
malleja, muistilistoja ja työkaluja, jotka auttavat mittaristoprojektin läpiviennissä. Samalla kirjallitaan yhteen kokemuksia
kymmenestä palveluorganisaatiosta, joissa kehitettiin mitaatamista vuosina 2011−2013. Nämä organisaatior edustavat
asiantuntijapalveluita, julkisia palveluita ja teollisuuden palveluita. Lisäksi oppaassa kuvataan suomalainen
palveluorganisaatioiden mitaatamisen tilaa. Opas sopii perusteoksi palveluorganisaatioiden johdolle ja kehittäjille sekä
alan korkeakoulutopiskelijoille.

Asiantuntija, miten osoitat työsi hyödyn?

General information
State: Published
Ministry of Education publication type: D1 Article in a trade journal
Organisations: Department of Information Management and Logistics
Authors: Lönnqvist, A.
Number of pages: 2
Pages: 16-17
Publication date: 2013
Peer-reviewed: Unknown

Publication information
Journal: Tiimalasi, Mittatekniikan keskuksen tiedotuslehti
Issue number: 1
Original language: Finnish

Bibliographical note
Contribution: organisation=tlo,FACC1=0.5<br/>Contribution: organisation=tta,FACC2=0.5<br/>Portfolio EDEND: 2013-11-29
Source: researchoutputwizard
Source-ID: 2393
Research output: Professional › Book

Asiantuntija, miten osoitat työsi hyödyn?

General information
State: Published
Ministry of Education publication type: D1 Article in a trade journal
Organisations: Department of Information Management and Logistics
Authors: Lönnqvist, A.
Number of pages: 2
Pages: 16-17
Publication date: 2013
Peer-reviewed: Unknown

Publication information
Journal: Tiimalasi, Mittatekniikan keskuksen tiedotuslehti
Issue number: 1
Original language: Finnish

Links:

Bibliographical note
Contribution: organisation=tlo,FACC1=1<br/>Portfolio EDEND: 2013-12-29<br/>Publisher name: Lugymedia
Source: researchoutputwizard
Source-ID: 2730
Research output: Scientific - peer-review › Conference contribution
Avaimia asiakasläheisyyteen - Uudistuva verkostomainen palveluliiketoiminta

General information
State: Published
Ministry of Education publication type: C1 Separate scientific books
Organisations: Department of Information Management and Logistics
Authors: Helander, N., Kujala, J., Lainema, K., Pennanen, M.
Number of pages: 80
Publication date: 2013

Publication information
Publisher: Tampere University Press
ISBN (Print): 978-951-44-9127-6
Original language: Finnish
Links:

Bibliographical note
Contribution: organisation=tlo,FACT1=1<br/>Portfolio EDEND: 2013-12-29
Source: researchoutputwizard
Source-ID: 2290
Research output: Scientific - peer-review › Book

Balancing between risks and benefits of knowledge sharing in co-operative knowledge networks

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Department of Information Management and Logistics
Authors: Ilvonen, I., Vuori, V.
Number of pages: 19
Pages: 1589-1607
Publication date: 2013

Host publication information
Title of host publication: 8th International Forum on Knowledge Asset Dynamics, IFKAD 2013, 12.-14.6.2013, Zagreb, Croatia
Place of publication: Zagreb, Croatia
Publisher: Institute of Knowledge Asset Management
ISBN (Print): 978-88-96687-01-7

Publication series
Name: International Forum on Knowledge Asset Dynamics
ISSN (Print): 2280-787X
Links:
http://www.knowledgeasset.org/ifkad

Bibliographical note
Contribution: organisation=tlo,FACT1=1<br/>Portfolio EDEND: 2013-07-29<br/>Publisher name: Institute of Knowledge Asset Management
Source: researchoutputwizard
Source-ID: 2373
Research output: Scientific - peer-review › Conference contribution
Brief introduction into information systems & management research in media industries

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Department of Information Management and Logistics
Authors: Lugmayr, A.
Number of pages: 6
Pages: 1-6
Publication date: 2013

Host publication information
Title of host publication: IEEE International Conference on Multimedia and Expo Workshops (ICMEW 2013), San Jose, CA, USA, 15-19 July 2013
Publisher: IEEE
ISBN (Print): 978-1-4799-1604-7

Business organizations' knowledge-production processes: an autopoietic approach

General information
State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: Pori Department
Authors: Koskinen, K. U.
Number of pages: 17
Pages: 137-153
Publication date: 2013
Peer-reviewed: Yes

Publication information
Journal: International Journal of Organizational Analysis
Volume: 21
Issue number: 2
ISSN (Print): 1934-8835
Ratings:
Scopus rating (2016): SJR 0.25 SNIP 0.729 CiteScore 0.73
Scopus rating (2015): SJR 0.22 SNIP 0.831 CiteScore 0.61
Scopus rating (2014): SJR 0.189 SNIP 0.462 CiteScore 0.75
Scopus rating (2013): SJR 0.221 SNIP 0.641 CiteScore 0.76
Can Social Media Help Business-to-Business Companies to Learn from their Customers

General information
State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: Department of Information Management and Logistics
Authors: Kärkkäinen, H., Jussila, J.
Number of pages: 4
Pages: 61-64
Publication date: 2013
Peer-reviewed: Yes

Publication information
Journal: World Financial Review
ISSN (Print): 0890-5177
Original language: English
Links:
http://www.worldfinancialreview.com

Bibliographical note
Contribution: organisation=pla,FACT1=1<br/>Portfolio EDEND: 2013-12-29<br/>Publisher name: Emerald Group Publishing
Source: researchoutputwizard
Source-ID: 2629
Research output: Scientific - peer-review › Article

Crowdfunding in Finland - A New Alternative Disruptive Funding instrument for Business

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Department of Information Management and Logistics
Authors: Lasrado, L., Lugmayr, A.
Number of pages: 8
Pages: 194-201
Publication date: 2013

Host publication information
Title of host publication: 17th International Academic MindTrek Conference, October 1-4, 2013, Tampere, Finland
Place of publication: New York, NY
Publisher: ACM
ISBN (Print): 978-1-4503-1992-8

Publication series
Crowd Intelligence in Independent Film Productions

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Department of Information Management and Logistics
Authors: Baranova, D., Lugmayr, A.
Number of pages: 5
Pages: 182-186
Publication date: 2013

Host publication information
Title of host publication: 17th International Academic MindTrek Conference, October 1-4, 2013, Tampere, Finland
Place of publication: New York, NY
Publisher: ACM
ISBN (Print): 978-1-4503-1992-8

Design thinking as practical approach for boundary objects creation among non-designer engineers in idea generation

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Pori Department
Authors: Toikka, T., Aramo-Immonen, H.
Number of pages: 14
Publication date: 2013

Host publication information
Title of host publication: Crafting the Future, 10th Conference of the European Academy of Design, 17-19 April 2013, Gothenburg, Sweden
Does Knowledge Management Save the European Public Sector from Collapse?

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Department of Information Management and Logistics
Authors: Lönnqvist, A.
Number of pages: 8
Pages: 966-973
Publication date: 2013

Host publication information
Title of host publication: 8th International Forum on Knowledge Asset Dynamics, IFKAD 2013, 12.-14.6.2013, Zagreb, Croatia
Place of publication: Zagreb, Croatia
Publisher: Institute of Knowledge Asset Management
ISBN (Print): 978-88-96687-01-7

Exploring More Productive Ways of Working

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Department of Information Management and Logistics
Authors: Ruostela, J., Lönnqvist, A.
Number of pages: 9
Pages: 1277-1285
Publication date: 2013

Host publication information
Title of host publication: International Conference on Knowledge Management and Knowledge Economy, 30.-31.1.2013, Dubai, United Arab Emirates. World Academy of Science, Engineering and Technology
Publisher: World Academy of Science

Publication series
Name: International Conference on Knowledge Management and Knowledge Economy
No.: 73
ISSN (Print): 2010-376X
ISSN (Electronic): 2010-3778
Links:
Exploring the requirements of regional knowledge-based management

**General information**
State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: Department of Information Management and Logistics
Authors: Salonius, H., Käpylä, J.
Pages: 583-597
Publication date: 2013
Peer-reviewed: Yes

**Publication information**
Journal: Journal of Knowledge Management
Volume: 17
Issue number: 4
ISSN (Print): 1367-3270
Ratings:
Scopus rating (2016): SJR 1.138 SNIP 2.131 CiteScore 3.48
Scopus rating (2015): SJR 1.224 SNIP 2.239 CiteScore 3.06
Scopus rating (2014): SJR 1.134 SNIP 2.357 CiteScore 2.87
Scopus rating (2013): SJR 0.952 SNIP 1.986 CiteScore 2.8
Scopus rating (2012): SJR 0.959 SNIP 1.9 CiteScore 2.58
Scopus rating (2011): SJR 0.859 SNIP 2.142 CiteScore 2.13
Scopus rating (2010): SJR 0.671 SNIP 1.397
Scopus rating (2009): SJR 0.759 SNIP 1.478
Scopus rating (2008): SJR 0.962 SNIP 1.683
Scopus rating (2007): SJR 0.593 SNIP 1.045
Scopus rating (2006): SJR 0.345 SNIP 0.848
Scopus rating (2005): SJR 0.23 SNIP 0.381
Scopus rating (2004): SJR 0.253 SNIP 0.706
Scopus rating (2003): SJR 0.256 SNIP 0.65
Scopus rating (2002): SJR 0.261 SNIP 0.652
Scopus rating (2001): SJR 0.268 SNIP 0.565
Scopus rating (2000): SJR 0.132 SNIP 0.111
Scopus rating (1999): SJR 0.1 SNIP 0
Original language: English
DOIs:
10.1108/JKM-03-2013-0106

**Bibliographical note**
Contribution: organisation=tlo,FACT1=1<br/>Portfolio EDEND: 2013-12-29<br/>Publisher name: Emerald Group Publishing
Source: researchoutputwizard
Source-ID: 3357
Research output: Scientific - peer-review » Article

Framework for Measuring Innovation Capability

**General information**
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Department of Information Management and Logistics
Authors: Pekkola, S., Saunila, M., Ukko, J., Sillanpää, V., Parjanen, S., Mäkimattila, M., Salminen, J., Rantala, T.
Number of pages: 8
Pages: 241-248
Publication date: 2013
Influence of organizational culture and communication on the successful implementation of information technology in hospitals

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Department of Information Management and Logistics
Authors: Xie, S., Helfert, M., Lugmayr, A., Heimgärtner, R., Holzinger, A.
Number of pages: 10
Pages: 165-174
Publication date: 2013

Host publication information
Title of host publication: 5th International Conference on Cross-Cultural Design: Cultural Differences in Everyday Life, CCD 2013, Held as Part of HCI International 2013, Las Vegas, NV, USA, 21.-26.7.2013
Innovation-related benefits of social media in Business-to-Business customer relationships

The aim of this research is to explore social media and its benefits and impacts especially from business-to-business innovation and customer interface perspective, and to create a more comprehensive picture of the possibilities of social media for the business-to-business sector. Business-to-business (B2B) context was chosen because it is in many ways a very different environment for social media than business-to-consumer (B2C) context, and is currently very little academically studied. A systematic literature review on B2B use of social media and achieved benefits and impacts in the innovation context was performed to answer the questions above and achieve the research goals. The study clearly demonstrates that not merely B2C’s, as commonly believed, but also B2B’s can benefit from involving customers in innovation by social media in a variety of ways. Concerning the broader classes of innovation-related benefits, the reported benefits of social media use referred to increased customer focus and understanding, increased level of customer service, and decreased time-to-market. The study contributes to the existing social media-related literature, because there were no found earlier comprehensive academic studies on the use of social media in the innovation process in the context of B2B customer interface.
Knowledge Production in Organizations. A Processual Autopoietic View

General information
State: Published
Ministry of Education publication type: C1 Separate scientific books
Organisations: Pori Department
Authors: Koskinen, K. U.
Number of pages: 172
Publication date: 2013

Publication information
Publisher: Springer International Publishing
ISBN (Print): 978-3-319-00103-6
ISBN (Electronic): 978-3-319-00104-3
Original language: English
DOIs: 10.1007/978-3-319-00104-3

Knowledge Sharing Barriers in Networked Growth in the Software Business

General information
State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: Department of Information Management and Logistics
Authors: Kukko, M., Helander, N.
Number of pages: 16
Pages: 105-120
Publication date: 2013
Peer-reviewed: Yes

Publication information
Journal: International Journal of Business Competition and Growth
Volume: 3
Issue number: 2
ISSN (Print): 2042-3845
Original language: English
DOIs: 10.1504/IJBCG.2013.056484

Knowledge Sharing Barriers in Organic Growth: A Case Study from a Software Company

In a high-technology field such as the software business, there are many companies striving for growth. For small software firms, organic growth is a natural way to grow and often the chosen route. Effective knowledge sharing is crucial for an organically growing software company to extract maximum benefit from its existing resources. However, it can be argued that there exist many barriers to effective knowledge sharing in an organic growth context. For companies that have an
intention to grow it is important to identify these possible pitfalls lining the growth path. Using an empirical case study, this paper aims to increase the understanding of the biggest potential knowledge sharing barriers that an organically growing software company may face. Management able to recognize such barriers to knowledge sharing could support growth by acting to prevent the barriers from arising and eliminating those already in place.

**General information**
State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: Department of Information Management and Logistics
Authors: Kukko, M.
Number of pages: 12
Pages: 18-29
Publication date: 2013
Peer-reviewed: Yes

**Publication information**
Journal: Journal of High Technology Management Research
Volume: 24
Issue number: 1
ISSN (Print): 1047-8310
Ratings:
Scopus rating (2016): SJR 0.405 SNIP 0.511 CiteScore 1.25
Scopus rating (2015): SJR 0.356 SNIP 0.789 CiteScore 1.38
Scopus rating (2014): SJR 0.461 SNIP 0.744 CiteScore 1.09
Scopus rating (2013): SJR 0.253 SNIP 0.779 CiteScore 0.91
Scopus rating (2012): SJR 0.287 SNIP 0.863 CiteScore 0.86
Scopus rating (2011): SJR 0.334 SNIP 0.753 CiteScore 1.18
Scopus rating (2010): SJR 0.412 SNIP 0.687
Scopus rating (2009): SJR 0.22 SNIP 0.207
Scopus rating (2008): SJR 0.328 SNIP 0.379
Scopus rating (2007): SJR 0.567 SNIP 0.882
Scopus rating (2006): SJR 0.463 SNIP 0.527
Scopus rating (2005): SJR 0.657 SNIP 0.828
Scopus rating (2004): SJR 0.472 SNIP 0.57
Scopus rating (2003): SJR 0.605 SNIP 0.483
Scopus rating (2002): SJR 0.357 SNIP 0.474
Scopus rating (2001): SJR 0.311 SNIP 0.287
Scopus rating (2000): SJR 0.187 SNIP 0.22
Scopus rating (1999): SJR 0.227 SNIP 0.291
Original language: English
Electronic versions:
kukko_knowledge_sharing_barriers_in_organic_growth.pdf
DOIs:
10.1016/j.hitech.2013.02.006
Links:

**Bibliographical note**
Contribution: organisation=tlo,FACT1=1<br/>Portfolio EDEND: 2013-12-29<br/>Publisher name: Pergamon
Source: researchoutputwizard
Source-ID: 2651
Research output: Scientific - peer-review › Article

**Knowledge Sharing Barriers of Acquisitioned Growth: A Case Study from a Software Company**
Acquisition as a growth strategy is often burdened by subsequent unsatisfactory performance. The literature suggests that a potential cause is mismanagement of knowledge. Such mismanagement may occur if the barriers to knowledge sharing in acquisitioned growth are not adequately understood. Hence, the aim of this study is to improve understanding of the potentially most restrictive knowledge sharing barriers in acquisitioned growth. It does so through a case study in the context of the software business. The findings of the study will help companies with a strategy of growing through acquisitions to better prepare for the challenging task of managing such growth. The paper also contributes to the literature on knowledge management by defining knowledge sharing barriers in the context of acquisitioned growth in the software business. A contribution to growth literature is made by touching on the issue of the management of acquisitions
from the perspective of knowledge management, and especially knowledge sharing.

**General information**
State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: Department of Information Management and Logistics
Authors: Kukko, M.
Number of pages: 12
Pages: 1-12
Publication date: 2013
Peer-reviewed: Yes

**Publication information**
Volume: 5
Issue number: 8
ISSN (Print): 1847-9790
Ratings:
- Scopus rating (2016): SJR 0.413 SNIP 0.669 CiteScore 0.76
- Scopus rating (2015): SJR 0.372 SNIP 0.671 CiteScore 0.86
- Scopus rating (2014): SJR 0.345 SNIP 0.734 CiteScore 0.84
- Scopus rating (2013): SJR 0.138 SNIP 0.274 CiteScore 0.4
- Scopus rating (2012): SJR 0.161 SNIP 0.392 CiteScore 0.71
- Scopus rating (2011): SJR 0.132 SNIP 0.561
Scopus rating (2010): SJR 0.101 SNIP 0
Original language: English
Electronic versions:
- kukko_knowledge_sharing_barriers_of_acquisitioned_growth.pdf
DOIs:
- 10.5772/56005
Links:

**Bibliographical note**
Contribution: organisation=tlo,FACT1=1
Portfolio EDEND: 2013-12-29
Publisher name: InTech Open Access
Publisher
Source: researchoutputwizard
Source-ID: 2652
Research output: Scientific - peer-review › Article

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**Luovien ideoiden kerääminen yrityksen ulkopuolelta**

**General information**
State: Published
Ministry of Education publication type: B2 Part of a book or another research book
Organisations: Department of Information Management and Logistics
Authors: Jussila, J.
Number of pages: 2
Pages: 42-43
Publication date: 2013

**Host publication information**
Title of host publication: Metalli taipuu! Kipinä luovaan bisnekseen teollisuudessa
Place of publication: Tampere
Publisher: Tampereen teknillinen yliopisto

**Publication series**
Name: Tampereen teknillinen yliopisto. Porin laitos. Julkaisu
Publisher: Tampereen teknillinen yliopisto
Volume: 16
ISSN (Print): 2323-8976
ISSN (Electronic): 1799-5655
Managing regional development: a knowledge perspective

General information
State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: Department of Information Management and Logistics
Authors: Lönnqvist, A., Laihonen, H.
Number of pages: 14
Pages: 50-63
Publication date: 2013
Peer-reviewed: Yes

Publication information
Journal: International Journal of Knowledge-Based Development
Volume: 4
Issue number: 1
ISSN (Print): 2040-4468
Ratings:
Scopus rating (2016): SJR 0.2 SNIP 0.559 CiteScore 1.06
Scopus rating (2015): SJR 0.255 SNIP 0.542 CiteScore 0.57
Scopus rating (2014): SJR 0.276 SNIP 0.534 CiteScore 1.01
Scopus rating (2013): SJR 0.293 SNIP 0.601 CiteScore 0.55
Scopus rating (2012): SJR 0.173 SNIP 0.18 CiteScore 0.41
Scopus rating (2011): SJR 0.256 SNIP 0.532
Original language: English
DOIs: 10.1504/IJKBD.2013.052493

Managing the knowledge-based development of a city-region

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Department of Information Management and Logistics
Authors: Lönnqvist, A.
Number of pages: 8
Pages: 391-398
Publication date: 2013

Host publication information
Title of host publication: The 6th Knowledge Cities World Summit, KCWS, 9.-12.9.2013, Istanbul, Turkey
Place of publication: Istanbul, Turkey
Publisher: BROS Congress

Publication series
Name: Knowledge Cities World Summit
Links:
http://brosgroup.net/KCWS2013/KCWS_2013_PROCEEDINGS.pdf
Measuring the impacts of welfare service innovations

General information
State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: Department of Information Management and Logistics
Authors: Sillanpää, V.
Number of pages: 16
Pages: 474-489
Publication date: 2013
Peer-reviewed: Yes

Publication information
Volume: 62
Issue number: 5
ISSN (Print): 1741-0401
Ratings:
Scopus rating (2016): SJR 0.607 SNIP 1.046 CiteScore 1.85
Scopus rating (2015): SJR 0.638 SNIP 1.371 CiteScore 2.08
Scopus rating (2014): SJR 0.421 SNIP 1.289 CiteScore 1.59
Scopus rating (2013): SJR 0.345 SNIP 1.003 CiteScore 1.28
Scopus rating (2012): SJR 0.294 SNIP 1.144 CiteScore 1.22
Scopus rating (2011): SJR 0.317 SNIP 0.71 CiteScore 1.2
Scopus rating (2010): SJR 0.344 SNIP 0.939
Scopus rating (2009): SJR 0.485 SNIP 1.214
Scopus rating (2008): SJR 0.5 SNIP 0.948
Scopus rating (2007): SJR 0.152 SNIP 0.184
Scopus rating (2006): SJR 0.118 SNIP 0.071
Scopus rating (2005): SJR 0.114 SNIP 0.079
Original language: English
DOIs:
10.1108/IJPPM-08-2012-0094

Bibliographical note
Contribution: organisation=tlo,FACT1=1<br/>Portfolio EDEND: 2013-02-27<br/>Publisher name: Emerald
Source: researchoutputwizard
Source-ID: 3423
Research output: Scientific - peer-review › Article

Vapotauti Kipinä luovan bisekseen teollisuudessa

Miten ICT voi parantaa tuottavuutta asiantuntijapalveluissa

General information
State: Published
Ministry of Education publication type: B2 Part of a book or another research book
Organisations: Department of Information Management and Logistics
Authors: Lönnqvist, A., Palvalin, M., Vuolle, M.
Number of pages: 10
Pages: 76-85
Publication date: 2013

Host publication information
Title of host publication: ICT ja palvelut. Näkönkulmia tuottavuuden kehittämiseen
Place of publication: Helsinki
Publisher: Elinkeinoelämän tutkimuslaitos
ISBN (Print): 978-951-628-595-8

Publication series
Name: ETLA B
Publisher: Elinkeinoelämän tutkimuslaitos
ISSN (Print): 0356-7443
Links:
http://www.taloustieto.fi

Bibliographical note
Contribution: organisation=tlo,FACT1=1<br/>Portfolio EDEND: 2013-12-29
Source: researchoutputwizard
Source-ID: 2811
Research output: Scientific › Chapter

Mixed Methods Research Design

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Pori Department, Managing digital industrial transformation (mDIT)
Offshorealan osaaminen nousuun

General information
State: Published
Ministry of Education publication type: D1 Article in a trade journal
Organisations: Pori Department
Authors: Aramo-Immonen, H., Jaakkola, U., Suominen, A.
Number of pages: 4
Pages: 78-81
Publication date: 2013
Peer-reviewed: Unknown

Publication information
Journal: Projektitoiminta
Issue number: 2
ISSN (Print): 1455-4178
Original language: Finnish
Links:
http://www.e-julkaisu.fi/pry/2-2013/

Bibliographical note
Contribution: organisation=pla,FACT1=1<br/>Portfolio EDEND: 2013-11-29
Source: researchoutputwizard
Source-ID: 1936
Research output: Professional › Article

Organizational Commitment in Purchasing and Supply Chain Management - Building an Evaluation Instrument

General information
State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: Pori Department
Authors: Einolander, J., Vanharanta, H.
Number of pages: 6
Pages: 145-150
Publication date: 2013
Peer-reviewed: Yes

Publication information
Volume: 3
Issue number: 4
ISSN (Print): 2225-658X
Original language: English
Links:

Bibliographical note
Contribution: organisation=pla,FACT1=1<br/>Portfolio EDEND: 2013-12-29<br/>Publisher name: Society of Digital Information and Wireless Communications
Source: researchoutputwizard
Source-ID: 2103
Research output: Scientific - peer-review › Article

Organizational Commitment in Purchasing and Supply Chain Management : Building an Evaluation Instrument

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Pori Department
Authors: Einolander, J., Vanharanta, H.
Number of pages: 6
Pages: 145-150
Overcoming challenges in the implementation of performance measurement - Case studies in public welfare services

General information
State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: Department of Information Management and Logistics, Department of Industrial Management, Managing digital industrial transformation (mDIT)
Authors: Jääskeläinen, A., Sillanpää, V.
Number of pages: 15
Pages: 440-454
Publication date: 2013
Peer-reviewed: Yes

Publication information
Journal: International Journal of Public Sector Management
Volume: 26
Issue number: 6
ISSN (Print): 0951-3558
Ratings:
Scopus rating (2016): SJR 0.26 SNIP 0.663 CiteScore 0.87
Scopus rating (2015): SJR 0.281 SNIP 0.786 CiteScore 0.84
Scopus rating (2014): SJR 0.5 SNIP 1.087 CiteScore 0.96
Scopus rating (2013): SJR 0.313 SNIP 0.798 CiteScore 0.97
Scopus rating (2012): SJR 0.359 SNIP 0.721 CiteScore 0.76
Scopus rating (2011): SJR 0.48 SNIP 0.883 CiteScore 1.24
Scopus rating (2010): SJR 0.416 SNIP 0.643
Scopus rating (2009): SJR 0.334 SNIP 0.661
Scopus rating (2008): SJR 0.434 SNIP 0.839
Scopus rating (2007): SJR 0.369 SNIP 0.816
Scopus rating (2006): SJR 0.368 SNIP 0.889
Scopus rating (2005): SJR 0.261 SNIP 1.036
Scopus rating (2004): SJR 0.318 SNIP 0.591
Scopus rating (2003): SJR 0.237 SNIP 0.315
Scopus rating (2002): SJR 0.253 SNIP 0.299
Scopus rating (2001): SJR 0.32 SNIP 0.527
Scopus rating (2000): SJR 0.486 SNIP 0.854
Scopus rating (1999): SJR 0.404 SNIP 0.407
Original language: English
DOIs:
10.1108/IJPSM-12-2011-0014

Bibliographical note
Jaetaan tulospisteseurannassa 2/3 TTA + 1/3 TLO
Contribution: organisation=tta,FACT1=0.67
Contribution: organisation=tlo,FACT2=0.33
Portfolio EDEND: 2013-07-29
Publisher name: Emerald
Performance Information and Managerial Knowledge Needs

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Department of Information Management and Logistics, Department of Industrial Management
Authors: Laihonen, H., Jääskeläinen, A., Carlucci, D., Linzalone, R.
Number of pages: 18
Pages: 1-18
Publication date: 2013

Host publication information
Title of host publication: 7th Conference on Performance Measurement and Management Control, September 18-20, 2013, Barcelona, Spain
Place of publication: Brussels, Belgium
Publisher: European Institute for Advanced Studies in Management, EIASM

Publication series
Name: Conference on Performance Measurement and Management Control
ISSN (Print): 2295-1660
Links:
http://www.eiasm.org/frontoffice/event_announcement.asp?event_id=903

Persona-based expert review of an e-learning system for adults

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Department of Information Management and Logistics
Authors: Stojmenova, E., Lugmayr, A., Dinevski, D.
Number of pages: 4
Pages: 1-4
Publication date: 2013

Host publication information
Title of host publication: IEEE International Conference on Multimedia and Expo Workshops (ICMEW 2013), San Jose, CA, USA, 15-19 July 2013
Publisher: IEEE
ISBN (Print): 978-1-4799-1604-7

Publication series
Name: IEEE International Conference on Multimedia and Expo
ISSN (Print): 1945-7871
DOIs: 10.1109/ICMEW.2013.6618367

Bibliographical note
Contribution: organisation=tlo,FACT1=1<br/>Portfolio EDEND: 2013-12-29<br/>Publisher name: IEEE
Source: researchoutputwizard
Source-ID: 3473
Research output: Scientific - peer-review › Conference contribution
Project Manager’s Competence Identification

General information
State: Published
Ministry of Education publication type: A3 Part of a book or another research book
Organisations: Pori Department, Research group: Business Ecosystems, Networks and Innovations, University of Girona, Spain
Authors: Aramo-Immonen, H., Bikfalvi, A., Mancebo, N., Vanharanta, H.
Number of pages: 15
Pages: 17-31
Publication date: 2013

Host publication information
Title of host publication: Enhancing the Modern Organization through Information Technology Professionals: Research, Studies, and Techniques : Success Factors and Motivators in SPI
Publisher: IGI Global
ISBN (Print): 978-1-4666-2648-5
ISBN (Electronic): 978-1-4666-2679-9
DOIs: 10.4018/978-1-4666-2648-5.ch022
Research output: Scientific - peer-review › Chapter

Projektimestarit 2013: Esseekokoelma

General information
State: Published
Ministry of Education publication type: D6 Edited professional books
Organisations: Pori Department, Research group: Business Ecosystems, Networks and Innovations
Authors: Aramo-Immonen, H. (ed.)
Number of pages: 90
Publication date: 2013

Publication information
Publisher: Tampereen teknillinen yliopisto, Porin laitos
Original language: Finnish
Electronic versions: projektimestarit_2013
Research output: Professional › Anthology

Re-Thinking Knowledge-Based Management

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Department of Information Management and Logistics
Authors: Laihonen, H., Lönnqvist, A.
Number of pages: 6
Pages: 1314-1319
Publication date: 2013

Host publication information
Title of host publication: International Conference on Knowledge Management and Knowledge Economy, 30.-31.1.2013, Dubai, United Arab Emirates. World Academy of Science, Engineering and Technology
Publisher: World Academy of Science

Publication series
Name: International Conference on Knowledge Management and Knowledge Economy
No.: 73
ISSN (Print): 2010-376X
ISSN (Electronic): 2010-3778
Revealing Asymmetries in Safety Culture through Proactive Vision

General information
State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: Pori Department
Authors: Kantola, J. I., Vanharanta, H., Laukkanen, I., Piirto, A.
Number of pages: 6
Pages: 319-324
Publication date: 2013
Peer-reviewed: Yes

Publication information
Journal: Chemical Engineering Transactions
Volume: 31
ISSN (Print): 1974-9791
Ratings:
Scopus rating (2016): SJR 0.346 SNIP 0.595 CiteScore 0.81
Scopus rating (2015): SJR 0.418 SNIP 0.715 CiteScore 1
Scopus rating (2014): SJR 0.42 SNIP 0.694 CiteScore 0.9
Scopus rating (2013): SJR 0.389 SNIP 0.836 CiteScore 0.91
Scopus rating (2012): SJR 0.347 SNIP 0.543 CiteScore 0.51
Scopus rating (2011): SJR 0.277 SNIP 0.273 CiteScore 0.46
Scopus rating (2010): SJR 0.222 SNIP 0.233
Original language: English
DOIs:
10.3303/CET1331054

Bibliographical note
Contribution: organisation=pla,FACT1=1
Portfolio EDEND: 2013-11-29
Publisher name: Italian Association of Chemical Engineering
Source: researchoutputwizard
Source-ID: 2495
Research output: Scientific - peer-review › Article

Risks and benefits of knowledge sharing in co-competitive knowledge networks

General information
State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: Department of Information Management and Logistics, Managing digital industrial transformation (mDIT)
Authors: Ilvonen, I., Vuori, V.
Number of pages: 15
Pages: 209-223
Publication date: 2013
Peer-reviewed: Yes

Publication information
Journal: International Journal of Networking and Virtual Organisations
Volume: 13
Issue number: 3
ISSN (Print): 1470-9503
Ratings:
Safety culture research in a Finnish large-scale industrial park

General information
State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: Pori Department
Authors: Porkka, P. L., Mäkinen, E., Vanharanta, H.
Number of pages: 6
Pages: 361-366
Publication date: 2013
Peer-reviewed: Yes

Publication information
Journal: Chemical Engineering Transactions
Volume: 31
ISSN (Print): 1974-9791
Ratings:
Scopus rating (2016): SJR 0.346 SNIP 0.595 CiteScore 0.81
Scopus rating (2015): SJR 0.418 SNIP 0.715 CiteScore 1
Scopus rating (2014): SJR 0.42 SNIP 0.694 CiteScore 0.9
Scopus rating (2013): SJR 0.389 SNIP 0.836 CiteScore 0.91
Scopus rating (2012): SJR 0.347 SNIP 0.543 CiteScore 0.51
Scopus rating (2011): SJR 0.277 SNIP 0.273 CiteScore 0.46
Scopus rating (2010): SJR 0.222 SNIP 0.233
Original language: English
DOI:
10.3303/CET1331061

Bibliographical note
Contribution: organisation=pla,FACT1=1
Portfolio EDEND: 2013-02-27
Publisher name: Italian Association of Chemical Engineering AIDIC
Source: researchoutputwizard
Source-ID: 3176
Research output: Scientific - peer-review » Article
Social capital perspective for supply chain relationships

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Pori Department
Authors: Mäenpää, S., Breite, R.
Number of pages: 10
Publication date: 2013

Host publication information
Title of host publication: 20th European Operations Management Association, EurOMA Conference, Operations Management at the Heart of the Recovery, 7-12 June 2013, Dublin, Ireland
Publisher: European Institute for Advanced Studies in Management EIASM

Social Media Use and Potential in Business-to-Business Companies’ Innovation

General information
State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: Department of Information Management and Logistics, Managing digital industrial transformation (mDIT)
Authors: Kärkkäinen, H., Jussila, J., Väisänen, J.
Number of pages: 19
Pages: 53-71
Publication date: 2013
Peer-reviewed: Yes

Publication information
Journal: International Journal of Ambient Computing and Intelligence
Volume: 5
Issue number: 1
ISSN (Print): 1941-6237
Ratings:
Scopus rating (2016): SJR 0.125 SNIP 0.33 CiteScore 0.35
Scopus rating (2015): SJR 0.116 SNIP 0.381 CiteScore 0.48
Scopus rating (2014): SJR 0.121 SNIP 0.416 CiteScore 0.41
Scopus rating (2013): SJR 0.165 SNIP 0.666 CiteScore 0.45
Scopus rating (2012): SJR 0.164 SNIP 0.546 CiteScore 0.36
Scopus rating (2011): SJR 0.144 SNIP 0.326 CiteScore 0.25
Scopus rating (2010): SJR 0.134 SNIP 0.27
Original language: English
Electronic versions:
jussila_IJACI 5(1)
DOIs:
10.4018/jaci.2013010104
Links:
http://urn.fi/URN:NBN:fi:tty-201608044389

Bibliographical note
Contribution: organisation=tlo,FACT1=1<br/>Portfolio EDEND: 2013-06-29<br/>Publisher name: IGI Global
Tee oikeita asioita, tee asiat oikein

General information
State: Published
Ministry of Education publication type: E1 Popularised article, newspaper article
Organisations: Department of Information Management and Logistics
Authors: Ruostela, J., Lönnqvist, A.
Number of pages: 1
Pages: B19
Publication date: 2013
Peer-reviewed: Unknown

Publication information
Journal: Aamulehti
ISSN (Print): 0355-6913
Original language: Finnish

Bibliographical note
Contribution: organisation=tlo,FACT1=1<br/>Portfolio EDEND: 2013-05-29
Source: researchoutputwizard
Source-ID: 3299
Research output: General public › Article

The impact of sectoral economic development on the energy efficiency and CO2 emissions of road freight transport

General information
State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: Department of Information Management and Logistics, Life Cycle Effectiveness of the Built Environment (LCE@BE)
Authors: Liimatainen, H., Pöllänen, M.
Number of pages: 8
Pages: 150-157
Publication date: 2013
Peer-reviewed: Yes

Publication information
Journal: Transport Policy
Volume: 27
ISSN (Print): 0967-070X
Ratings:
Scopus rating (2016): SJR 1.241 SNIP 1.7 CiteScore 2.65
Scopus rating (2015): SJR 1.394 SNIP 1.504 CiteScore 2.36
Scopus rating (2014): SJR 1.48 SNIP 1.759 CiteScore 2.44
Scopus rating (2013): SJR 1.585 SNIP 1.957 CiteScore 2.25
Scopus rating (2012): SJR 1.192 SNIP 1.59 CiteScore 2.01
Scopus rating (2011): SJR 1.203 SNIP 2.283 CiteScore 2.22
Scopus rating (2010): SJR 1.081 SNIP 2.127
Scopus rating (2009): SJR 1.457 SNIP 1.609
Scopus rating (2008): SJR 1.259 SNIP 1.445
Scopus rating (2007): SJR 1.139 SNIP 1.485
Scopus rating (2006): SJR 0.945 SNIP 1.385
Scopus rating (2005): SJR 1.12 SNIP 1.566
Scopus rating (2004): SJR 1.117 SNIP 1.156
Scopus rating (2003): SJR 1.428 SNIP 1.365
Scopus rating (2002): SJR 0.456 SNIP 0.877
Scopus rating (2001): SJR 0.447 SNIP 0.707
Tiedolla johtaminen ei ole mikään tyhjä iskulause

General information
State: Published
Ministry of Education publication type: E1 Popularised article, newspaper article
Organisations: Department of Information Management and Logistics
Authors: Laihonen, H., Lönnqvist, A.
Number of pages: 1
Pages: 14-14
Publication date: 2013
Peer-reviewed: Unknown

Publication information
Journal: Aamulehti
ISSN (Print): 0355-6913
Original language: Finnish
Links:
http://www.aamulehti.fi

Bibliographical note
Contribution: organisation=tlo,FACT1=1<br/>Portfolio EDEND: 2013-11-29<br/>Source: researchoutputwizard
Source-ID: 2709
Research output: General public › Article

Tiedolla johtaminen tarkoittaa tiedon hyödyntämistä

General information
State: Published
Ministry of Education publication type: D1 Article in a trade journal
Organisations: Department of Information Management and Logistics
Authors: Laihonen, H., Lönnqvist, A.
Number of pages: 1
Pages: 30-30
Publication date: 2013
Peer-reviewed: Unknown

Publication information
Journal: Tietoasiantuntija
Issue number: 4
Original language: Finnish

Bibliographical note
Contribution: organisation=tlo,FACT1=1<br/>Portfolio EDEND: 2013-11-29<br/>Publisher name: Tietoasiantuntijat ry
Source: researchoutputwizard
Source-ID: 2710
Research output: Professional › Article
Tietojohtajan taskukirja. Tietojohtamisen näkökulmia aluekehittämiseen


General information
State: Published
Ministry of Education publication type: D5 Text book, professional manual or guide or a dictionary
Organisations: Department of Information Management and Logistics
Authors: Käpylä, J., Salonius, H.
Number of pages: 82
Publication date: 2013

Publication Information
Place of publication: Tampere
Publisher: Tampereen teknillinen yliopisto, Tietojohtamisen tutkimuskeskus Novi
Original language: Finnish
Electronic versions: tietojohtajan_taskukirja.pdf

Bibliographical note
Contribution: organisation=tlo,FACT1=1<br/>Portfolio EDEND: 2013-12-29<br/>Source-ID: 2499
Research output: Professional › Book

Towards an Information Management Perspective in Media Industry - Developing the Field of Media Business Information Management on the Example of Social Customer Relationship Management (CRM)

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Department of Information Management and Logistics
Authors: Lugmayr, A., Huhtaharju, T., Mäkelä, J.
Number of pages: 15
Pages: 1-15
Publication date: 2013

Host publication information
Title of host publication: European Media Management Education Association Conference, Digital Transformations and Transactions, 13.-14.6.2013, Bournemouth, UK
Publisher: European Media Management Education Association

Publication series
Name: European Media Management Education Association Conference

Bibliographical note
Contribution: organisation=tlo,FACT1=1<br/>Portfolio EDEND: 2013-12-29<br/>Publisher name: European Media Management Education Association
Source: researchoutputwizard
Source-ID: 2823
Research output: Scientific - peer-review › Conference contribution
Tuottavuuden mittaaminen palveluorganisaatioissa

General information
State: Published
Ministry of Education publication type: B2 Part of a book or another research book
Organisations: Department of Information Management and Logistics
Authors: Lönnqvist, A., Palvalin, M., Vuolle, M.
Number of pages: 3
Pages: 50-53
Publication date: 2013

Host publication information
Title of host publication: ICT ja palvelut. Näkökulmia tuottavuuden kehittämiseen
Place of publication: Helsinki
Publisher: Elinkeinoelämän tutkimuslaitos
ISBN (Print): 978-951-628-595-8

Publication series
Name: ETLA B
Publisher: Elinkeinoelämän tutkimuslaitos
No.: 259
ISSN (Print): 0356-7443
Links:
http://www.taloustieto.fi/etlajulk/b259.html

Bibliographical note
Contribution: organisation=tlo,FACT1=1
Source: researchoutputwizard
Source-ID: 2812
Research output: Scientific › Chapter

Tutkimuksen tekeminen saa olla kivaa

General information
State: Published
Ministry of Education publication type: E1 Popularised article, newspaper article
Organisations: Department of Information Management and Logistics
Authors: Lönnqvist, A.
Number of pages: 1
Pages: B14
Tyytyväiset asiakkaat julkisten palvelujen laadun mittaajina

General information
State: Published
Ministry of Education publication type: D1 Article in a trade journal
Organisations: Department of Information Management and Logistics, Department of Industrial Management
Authors: Jääskeläinen, A., Laihonen, H.
Number of pages: 1
Pages: 60
Publication date: 2013
Peer-reviewed: Unknown

User identification approach based on simple gestures

General information
State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: Department of Information Management and Logistics
Authors: Guna, J., Stojmenova, E., Lugmayr, A., Humar, I., Pogacnik, M.
Number of pages: 16
Pages: 1-16
Publication date: 2013
Peer-reviewed: Yes

User identification approach based on simple gestures

General information
State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: Department of Information Management and Logistics
Authors: Guna, J., Stojmenova, E., Lugmayr, A., Humar, I., Pogacnik, M.
Number of pages: 16
Pages: 1-16
Publication date: 2013
Peer-reviewed: Yes

Publication information
Journal: Multimedia Tools and Applications
ISSN (Print): 1380-7501
Ratings:
Scopus rating (2016): SJR 0.396 SNIP 0.775 CiteScore 1.19
Scopus rating (2015): SJR 0.354 SNIP 0.941 CiteScore 0.95
Scopus rating (2014): SJR 0.386 SNIP 1.295 CiteScore 1.33
Scopus rating (2013): SJR 0.382 SNIP 1.303 CiteScore 1.33
Value Creation in Business-to-Business Crowdsourcing

General information
State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: Department of Information Management and Logistics
Authors: Helander, N., Jussila, J., Kärkkäinen, H.
Number of pages: 12
Pages: 52-63
Publication date: 2013
Peer-reviewed: Yes

Publication information
Journal: International Journal of Knowledge Society Research
Volume: 4
Issue number: 4
ISSN (Print): 1947-8429
Original language: English
DOIs:
10.4018/ijksr.2013100106

Bibliographical note
Contribution: organisation=tlo,FACT1=1
Portfolio EDEND: 2013-12-29
Publisher name: Springer
US
Source: researchoutputwizard
Source-ID: 2206
Research output: Scientific - peer-review › Article

What Can Regional Knowledge-Based Management Learn From a Co-Creation Event?

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Department of Information Management and Logistics
Authors: Salonius, H.
Number of pages: 8
Pages: 492-499
Host publication information
Title of host publication: Proceedings of the Participatory Innovation Conference, PIN-C 2013, 18.-20.6.2013, Lahti, Finland. LUT Scientific and Expertice Publications
Publisher: Lappeenranta University of Technology
Editors: Melkas, H., Buur, J.
ISBN (Print): 978-952-265-391-8
Links:
http://www.lut.fi/documents/27578/292022/PIN-C+2013_Proceedings_HQ.pdf/17fa385b-cc30-4ae4-82a6-59308a80d503

Bibliographical note
Contribution: organisation=tlo,FACT1=1<br/>
Portfolio EDEND: 2013-07-29<br/>
Publisher name: Lappeenranta University of Technology
Source: researchoutputwizard
Source-ID: 3356
Research output: Scientific - peer-review › Conference contribution

What is the Role of Knowledge Management in Capturing Effectiveness of Public Welfare Services?

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Department of Information Management and Logistics
Authors: Laihonen, H., Sillanpää, V.
Number of pages: 9
Pages: 974-986
Publication date: 2013

Host publication information
Title of host publication: 8th International Forum on Knowledge Asset Dynamics, IFKAD 2013, 12.-14.6.2013, Zagreb, Croatia
Place of publication: Zagreb, Croatia
Publisher: Institute of Knowledge Asset Management
ISBN (Print): 978-88-96687-01-7

Publication series
Name: International Forum on Knowledge Asset Dynamics
ISSN (Print): 2280-787X
Links:
http://www.knowledgeasset.org/ifkad

Bibliographical note
Contribution: organisation=tlo,FACT1=1<br/>
Portfolio EDEND: 2013-07-29<br/>
Publisher name: Institute of Knowledge Asset Management
Source: researchoutputwizard
Source-ID: 2711
Research output: Scientific - peer-review › Conference contribution

A contingency approach to performance measurement in service operations

General information
State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: Department of Business Information Management and Logistics, Department of Industrial Management, Managing digital industrial transformation (mDIT)
Authors: Jääskeläinen, A., Laihonen, H., Lönnqvist, A., Palvalin, M., Sillanpää, V., Pekkola, S., Ukko, J.
Pages: 43-52
Publication date: 2012
Peer-reviewed: Yes

Publication information
Artefacts produced via design methods as boundary objects and mediating processes among non-designer engineers in idea generation

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Tampere University of Technology, Pori
Authors: Aramo-Immonen, H.
Pages: 726-736
Publication date: 2012

Host publication information
Title of host publication: Proceedings of IFKAD-KCWS 2012, 7th International Forum on Knowledge Asset Dynamics, 13-15 June, 2012, Matera, Italy
Place of publication: Matera, Italy
Publisher: Institute of Knowledge Asset Management
Editors: Schiuma, G., Spender, J., Yigitcanlar, T.
ISBN (Print): 978-88-96687-08-6
ISBN (Electronic): 978-88-96687-08-6

Publication series
Name: International Forum on Knowledge Asset Dynamics

Bibliographical note
Contribution: organisation=pori,FACT1=1
Publisher name: Institute of Knowledge Asset Management
Source: researchoutputwizard
Source-ID: 3858
Research output: Scientific - peer-review › Conference contribution

Empirical Call for Systemic Performance Measurement

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Department of Business Information Management and Logistics, Department of Industrial Management
Authors: Laihonen, H., Jääskeläinen, A., Pekkola, S.
Pages: 1-12
Publication date: 2012

Host publication information
Title of host publication: PMA Conference, Performance management: From strategy to delivery, 11-13 July 2012, Cambridge, UK
Place of publication: Cambridge, UK
Publisher: Performance Management Association PMA
ISBN (Print): 978-1-902546-43-8

Publication series
Name: Performance Management Association Conference

Bibliographical note
Contribution: organisation=tlo,FACT1=0.5
Publisher name: Performance Management Association PMA
Source: researchoutputwizard
Source-ID: 4631
Research output: Scientific - peer-review › Conference contribution

Esimerkkejä muista logistikyöhykkeistä

General information
State: Published
Ministry of Education publication type: D2 Article in professional manuals or guides or professional information systems or text book material
Exploring the policy relevance of national intellectual capital information

General information
State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: Department of Business Information Management and Logistics
Authors: Salonius, H., Lönnqvist, A.
Pages: 331-342
Publication date: 2012
Peer-reviewed: Yes

Publication information
Journal: Journal of Intellectual Capital
Volume: 13
Issue number: 3
ISSN (Print): 1469-1930
Ratings:
Scopus rating (2016): SJR 0.715 SNIP 2.283 CiteScore 3.05
Scopus rating (2015): SJR 0.869 SNIP 2.183 CiteScore 3.54
Scopus rating (2014): SJR 0.75 SNIP 1.556 CiteScore 3.24
Scopus rating (2013): SJR 0.91 SNIP 2.464 CiteScore 3.17
Scopus rating (2012): SJR 0.627 SNIP 1.95 CiteScore 1.82
Scopus rating (2011): SJR 0.519 SNIP 1.798 CiteScore 2.09
Scopus rating (2010): SJR 0.509 SNIP 1.388
Scopus rating (2009): SJR 0.508 SNIP 1.47
Scopus rating (2008): SJR 0.686 SNIP 1.615
Scopus rating (2007): SJR 0.501 SNIP 1.21
Scopus rating (2006): SJR 0.227 SNIP 0.358
Scopus rating (2005): SJR 0.196 SNIP 0.423
Scopus rating (2004): SJR 0.305 SNIP 0.943
Scopus rating (2003): SJR 0.299 SNIP 0.941
Scopus rating (2002): SJR 0.265 SNIP 0.529
Scopus rating (2001): SJR 0.277 SNIP 0.916
Original language: English
DOI:
10.1108/14691931211248891

Bibliographical note
ei ut-numeroa 29.8.2013<br/>Contribution: organisation=tlo,FACT1=1<br/>Portfolio EDEND: 2013-06-29
Source: researchoutputwizard
Fifth - impact - decrease - climate change

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Tampere University of Technology, Pori
Authors: Vanharanta, H., Kantola, J., Salo, M., Krolas, P.
Pages: 703-711
Publication date: 2012

Host publication information
Title of host publication: Proceedings of the 7th European Conference on Innovation and Entrepreneurship, Portugal, 20-21 September 2012
Place of publication: Reading, UK
Publisher: Academic Publishing International Limited
Editors: Vivas, C., Lucas, F.
ISBN (Print): 978-1-908272-68-3

Publication series
Name: European Conference on Innovation and Entrepreneurship
ISSN (Print): 2049-1050
ISSN (Electronic): 2049-1077

Bibliographical note
ei ut-numeroa 21.9.2013<br/>Contribution: organisation=pori,FACT1=1<br/>Publisher name: Academic Publishing International Limited
Source: researchoutputwizard
Source-ID: 5512
Research output: Scientific - peer-review → Conference contribution

From Local Governance to Geographic Dispersion - Implications of Structural Change for Knowledge Management

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Department of Business Information Management and Logistics
Authors: Syysnummi, P., Laihonen, H.
Pages: 293-317
Publication date: 2012

Host publication information
Title of host publication: Proceedings of IFKAD-KCWS 2012, 7th International Forum on Knowledge Asset Dynamics, 13-15 June, 2012, Matera, Italy
Place of publication: Matera, Italy
Publisher: Institute of Knowledge Asset Management
Editors: Schiuma, G., Spender, J., Yigitcanlar, T.
ISBN (Print): 978-88-96687-08-6
ISBN (Electronic): 978-88-96687-08-6

Publication series
Name: International Forum on Knowledge Asset Dynamics
Links:
http://www.knowledgeasset.org/IFKAD

Bibliographical note
Proceedingsin lukemiseen vaaditaan tunnukset<br/>Contribution: organisation=tlo,FACT1=1<br/>Publisher name: Institute of Knowledge Asset Management
Source: researchoutputwizard
Source-ID: 5384
Research output: Scientific - peer-review → Conference contribution
Improving Knowledge Work Productivity through 'New Ways of Working': Case Rapal

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Department of Business Information Management and Logistics
Authors: Ruostela, J., Lönnqvist, A., Palvalin, M., Vuolle, M., Ahokas, M., Ikkala, A.
Pages: 1098-1115
Publication date: 2012

Host publication information
Title of host publication: Proceedings of IFKAD-KCWS 2012, 7th International Forum on Knowledge Asset Dynamics, 13-15 June, 2012, Matera, Italy
Place of publication: Matera, Italy
Publisher: Institute of Knowledge Asset Management
Editors: Schiuma, G., Spender, J., Yigitcanlar, T.
ISBN (Print): 978-88-96687-08-6

Publication series
Name: International Forum on Knowledge Asset Dynamics
Links:
http://www.knowledgeasset.org/IFKAD

Key Development Areas for Service Performance Measurement: Evidence from Finland

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Department of Business Information Management and Logistics, Department of Industrial Management
Authors: Jääskeläinen, A., Laihonen, H., Lönnqvist, A., Pekkola, S., Ukko, J.
Number of pages: 12
Pages: 1-12
Publication date: 2012

Host publication information
Title of host publication: PMA Conference, Performance management: From strategy to delivery, 11-13 July 2012, Cambridge, UK
Place of publication: Cambridge, UK
Publisher: Performance Management Association PMA
ISBN (Print): 978-1-902546-43-8

Publication series
Name: Performance Management Association Conference

Bibliographical note
Proceedingsin lukemiseen vaaditaan tunnuksset<br/>Contribution: organisation=tlo,FACT1=1<br/>Publisher name: Institute of Knowledge Asset Management
Source: researchoutputwizard
Source-ID: 5015
Research output: Scientific - peer-review › Conference contribution

Bibliographical note
Proceedingsin lukemiseen vaaditaan tunnuksset<br/>Contribution: organisation=tlo,FACT1=1<br/>Publisher name: Institute of Knowledge Asset Management
Source: researchoutputwizard
Source-ID: 5204
Research output: Scientific - peer-review › Conference contribution

Bibliographical note
Poistettu tupla r=1052. ei ut-numeroa 15.8.2013<br/>Contribution: organisation=tta,FACT1=0.5<br/>Contribution: organisation=tlo,FACT2=0.5<br/>Publisher name: Performance Management Association PMA
Source: researchoutputwizard
Source-ID: 4321
Knowledge creation and learning in organisations - measuring proactive vision using the co-evolute methodology

General information
State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: Tampere University of Technology, Pori
Authors: Eklund, T., Paajanen, P., Kantola, J., Vanharanta, H.
Pages: 190-201
Publication date: 2012
Peer-reviewed: Yes

Publication information
Journal: International Journal of Strategic Change Management
Volume: 4
Issue number: 2
ISSN (Print): 1740-2859
Original language: English
DOIs:
10.1504/IJSCM.2012.046511

Bibliographical note
Published tupla r=2869. ei ut-numeroa 12.8.2013
Publisher name: Inderscience Publishers
Source: researchoutputwizard
Source-ID: 4027
Research output: Scientific - peer-review › Article

Knowledge integration in systems integrator type project-based companies: a systemic view

General information
State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: Tampere University of Technology, Pori
Authors: Koskinen, K. U.
Pages: 285-299
Publication date: 2012
Peer-reviewed: Yes

Publication information
Journal: International Journal of Managing Projects in Business
Volume: 5
Issue number: 2
ISSN (Print): 1753-8378
Original language: English
DOIs:
10.1108/17538371211214950

Bibliographical note
ei ut-numeroa 19.8.2013
Publisher name: Emerald
Source: researchoutputwizard
Source-ID: 4545
Research output: Scientific - peer-review › Article
Knowledge management in industrial service innovation

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Tampere University of Technology, Pori
Authors: Mittilä, T., Aramo-Immonen, H.
Pages: 489-502
Publication date: 2012

Host publication information
Title of host publication: Proceedings of IFKAD-KCWS 2012, 7th International Forum on Knowledge Asset Dynamics, 13-15 June, 2012, Matera, Italy
Place of publication: Matera, Italy
Publisher: Institute of Knowledge Asset Management
Editors: Schiuma, G., Spender, J., Yigitcanlar, T.
ISBN (Print): 978-88-96687-08-6
ISBN (Electronic): 978-88-96687-08-6

Publication series
Name: International Forum on Knowledge Asset Dynamics

Bibliographical note
Contribution: organisation=pori,FACT1=1<br/>Publisher name: Institute of Knowledge Asset Management
Source: researchoutputwizard
Source-ID: 4862
Research output: Scientific - peer-review › Conference contribution

Knowledge Management Practices in Healthcare Services - Towards Knowledge-Based Value Creation

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Department of Business Information Management and Logistics
Authors: Myllärniemi, J., Laihonen, H., Karppinen, H., Seppänen, K.
Pages: 2518-2535
Publication date: 2012

Host publication information
Title of host publication: Proceedings of IFKAD-KCWS 2012, 7th International Forum on Knowledge Asset Dynamics, 13-15 June, 2012, Matera, Italy
Place of publication: Matera, Italy
Publisher: Institute of Knowledge Asset Management
Editors: Schiuma, G., Spender, J., Yigitcanlar, T.
ISBN (Print): 978-88-96687-08-6
ISBN (Electronic): 978-88-96687-08-6

Publication series
Name: International Forum on Knowledge Asset Dynamics
Links:
http://www.knowledgeasset.org/IFKAD

Bibliographical note
Proceedingsin lukemiseen vaaditaan tunnukset<br/>Contribution: organisation=tlo,FACT1=1<br/>Publisher name: Institute of Knowledge Asset Management
Source: researchoutputwizard
Source-ID: 4896
Research output: Scientific - peer-review › Conference contribution

Knowledge sharing motivational factors of using an intra-organizational social media platform

General information
State: Published
Knowledge structures of a health ecosystem

State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: Department of Business Information Management and Logistics
Authors: Laihonen, H.
Pages: 542-558
Publication date: 2012
Peer-reviewed: Yes

Publication information
Journal: Journal of Health Organization and Management
Volume: 26
Issue number: 4
ISSN (Print): 1477-7266
Ratings:
Scopus rating (2016): SJR 0.448 SNIP 0.943 CiteScore 1.31
Scopus rating (2015): SJR 0.681 SNIP 1.164 CiteScore 1.6
Managerial lessons on relevance and measurability in R&D project valuation

General information
State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: Department of Business Information Management and Logistics, Department of Industrial Management, Mathematical modelling with wide societal impact (MathImpact), Managing digital industrial transformation (mDIT)
Authors: Suomala, P., Kanniainen, J., Lönnqvist, A.
Publication date: 2012
Peer-reviewed: Yes

Publication information
Journal: Measuring Business Excellence
Volume: 16
Issue number: 1
ISSN (Print): 1368-3047
Ratings:
Scopus rating (2016): SJR 0.479 SNIP 0.806 CiteScore 1.38
Scopus rating (2015): SJR 0.329 SNIP 1.22 CiteScore 1.32
Scopus rating (2014): SJR 0.42 SNIP 0.896 CiteScore 1.1
Scopus rating (2013): SJR 0.423 SNIP 0.953 CiteScore 1.36
Scopus rating (2012): SJR 0.269 SNIP 1.126 CiteScore 0.99
Scopus rating (2011): SJR 0.417 SNIP 1.041 CiteScore 1.04
Scopus rating (2010): SJR 0.233 SNIP 0.41
Scopus rating (2009): SJR 0.325 SNIP 0.717
Scopus rating (2008): SJR 0.246 SNIP 0.659
Scopus rating (2007): SJR 0.196 SNIP 0.224
Scopus rating (2006): SJR 0.233 SNIP 0.408
Scopus rating (2005): SJR 0.173 SNIP 0.292
Scopus rating (2004): SJR 0.259 SNIP 0.26
Scopus rating (2003): SJR 0.173 SNIP 0.27
Scopus rating (2002): SJR 0.122 SNIP 0.138
Scopus rating (2001): SJR 0.112 SNIP 0.026
Scopus rating (2000): SJR 0.1 SNIP 0
Scopus rating (1999): SJR 0.1 SNIP 0
Original language: English
DOIs:
10.1108/136830412111204644

Bibliographical note
ei ut-numeroa 30.8.2013<br/>

Contribution: organisation=tta,FACT1=0.67<br/>

Contribution: organisation=tlo,FACT2=0.33<br/>

Publisher name: Emerald
Managing Work Engagement - Improving the Performance of Academic Staff

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Department of Business Information Management and Logistics
Authors: Yliniemi, T.
Pages: 56-78
Publication date: 2012

Host publication information
Title of host publication: Proceedings of IFKAD-KCWS 2012, 7th International Forum on Knowledge Asset Dynamics, 13-15 June, 2012, Matera, Italy
Place of publication: Matera, Italy
Publisher: Institute of Knowledge Asset Management
Editors: Schiuma, G., Spender, J., Yigitcanlar, T.
ISBN (Print): 978-88-96687-08-6
ISBN (Electronic): 978-88-96687-08-6

Bibliographical note
Proceedingsin lukemiseen vaaditaan tunnukset
Contribution: organisation=tlo,FACT1=1<br/>
Publisher name: Institute of Knowledge Asset Management
Source: researchoutputwizard
Source-ID: 5371
Research output: Scientific - peer-review › Article

Measurement and assessment of IC in strategic management

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Tampere University of Technology, Pori
Authors: Lammi, A., Vanharanta, H.
Number of pages: 9
Pages: 1-9
Publication date: 2012

Host publication information
Title of host publication: 8th Interdisciplinary Workshop on Intangibles, Intellectual Capital & Extra-Financial Information Grenoble, September 27-28, 2012
Publisher: European Institute for Advanced Studies in Management EIASM

Publication series
Name: Interdisciplinary Workshop on Intangibles, Intellectual Capital & Extra-Financial Information
Links:
http://www.eiasm.org/frontoffice/eventLogin.asp?item=DOWN&event_id=880

Bibliographical note
Konferenssijulkaisujen lukemiseen vaaditaan rekisteröitymistä. ei ut-numeroa 20.8.2013<br/>
Contribution: organisation=pori,FACT1=1<br/>
Publisher name: European Institute for Advanced Studies in Management EIASM
Source: researchoutputwizard
Source-ID: 4646
Research output: Scientific - peer-review › Conference contribution
Measuring innovation capability in the service sector - review study

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Tampere University of Technology, Pori
Authors: Karttunen, E.
Pages: 228-246
Publication date: 2012

Host publication information
Title of host publication: Proceedings of IFKAD-KCWS 2012, 7th International Forum on Knowledge Asset Dynamics, 13-15 June, 2012, Matera, Italy
Place of publication: Matera, Italy
Publisher: Institute of Knowledge Asset Management
Editors: Schiuma, G., Spender, J., Yigitcanlar, T.
ISBN (Print): 978-88-96687-08-6
ISBN (Electronic): 978-88-96687-08-6

Publication series
Name: International Forum on Knowledge Asset Dynamics

Bibliographical note
Contribution: organisation=pori,FACT1=1<br/>Publisher name: Institute of Knowledge Asset Management
Source: researchoutputwizard
Source-ID: 4435
Research output: Scientific - peer-review › Conference contribution

Measuring the Impacts of Welfare Service Innovations

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Department of Business Information Management and Logistics
Authors: Sillanpää, V.
Pages: 352-373
Publication date: 2012

Host publication information
Title of host publication: Proceedings of IFKAD-KCWS 2012, 7th International Forum on Knowledge Asset Dynamics, 13-15 June, 2012, Matera, Italy
Place of publication: Matera, Italy
Publisher: Institute of Knowledge Asset Management
Editors: Schiuma, G., Spender, J., Yigitcanlar, T.
ISBN (Print): 978-88-96687-08-6
ISBN (Electronic): 978-88-96687-08-6

Publication series
Name: International Forum on Knowledge Asset Dynamics

Bibliographical note
Contribution: organisation=tlo,FACT1=1<br/>Publisher name: Institute of Knowledge Asset Management
Source: researchoutputwizard
Source-ID: 5322
Research output: Scientific - peer-review › Conference contribution

National intellectual capital performance: a strategic approach

General information
State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: Department of Business Information Management and Logistics, Department of Industrial Management
Negative competition steering patient flow in a public-private healthcare co-opetition setting - a Finnish case

General information
State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: Department of Business Information Management and Logistics, Augmented Human Activities (AHA)
Authors: Myllärniemi, J., Okkonen, J., Paavilainen, J., Vuori, V.
Pages: 208-220
Publication date: 2012
Peer-reviewed: Yes

Publication information
Journal: World Review of Entrepreneurship, Management and Sustainable Development
Volume: 8
Issue number: 2
ISSN (Print): 1746-0573
Ratings:
Scopus rating (2016): SJR 0.231 SNIP 0.413 CiteScore 0.66
Scopus rating (2015): SJR 0.28 SNIP 0.496 CiteScore 0.49
Scopus rating (2014): SJR 0.168 SNIP 0.261 CiteScore 0.26
Scopus rating (2013): SJR 0.173 SNIP 0.13 CiteScore 0.21
Scopus rating (2012): SJR 0.116 SNIP 0.252 CiteScore 0.1
Ontologies enable innovation

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Tampere University of Technology, Pori
Authors: Kantola, J., Vanharanta, H.
Pages: 358-365
Publication date: 2012

Host publication information
Title of host publication: Proceedings of the 7th European Conference on Innovation and Entrepreneurship, Portugal, 20-21 September 2012
Place of publication: Reading, UK
Publisher: Academic Publishing International Limited
Editors: Vivas, C., Lucas, F.
ISBN (Print): 978-1-908272-68-3

Publication series
Name: European Conference on Innovation and Entrepreneurship
ISSN (Print): 2049-1050
ISSN (Electronic): 2049-1077

Bibliographical note
ei ut-numeroa 19.8.2013<br/>Contribution: organisation=pori,FACT1=1<br/>Publisher name: Academic Publishing International Limited
Source: researchoutputwizard
Source-ID: 4415
Research output: Scientific - peer-review » Conference contribution

Organizational learning in project-based companies: a process thinking approach

General information
State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: Tampere University of Technology, Pori
Authors: Koskinen, K. U.
Pages: 40-49
Publication date: 2012
Peer-reviewed: Yes

Publication information
Journal: Project Management Journal
Volume: 43
Issue number: 3
ISSN (Print): 8756-9728
Overcoming the Specific Challenges in the Performance Measurement of Knowledge-intensive Organizations

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Department of Business Information Management and Logistics, Department of Industrial Management
Authors: Jääskeläinen, A., Laihonen, H.
Pages: 918-937
Publication date: 2012

Host publication information
Title of host publication: Proceedings of IFKAD-KCWS 2012, 7th International Forum on Knowledge Asset Dynamics, 13-15 June, 2012, Matera, Italy
Place of publication: Matera, Italy
Publisher: Institute of Knowledge Asset Management
Editors: Schiuma, G., Spender, J., Yigitcanlar, T.
ISBN (Print): 978-88-96687-08-6

Publication series
Name: International Forum on Knowledge Asset Dynamics
Links:
http://www.knowledgeasset.org/IFKAD

Bibliographical note
Proceedingsin lukemiseen vaaditaan tunnukset.Poistettu tupla r=1082<br/>
Contribution: organisation=tta,FACT1=0.5<br/>
Contribution: organisation=tlo,FACT2=0.5<br/>
Publisher name: Institute of Knowledge Asset Management
Source: researchoutputwizard
Source-ID: 4319
Research output: Scientific - peer-review › Conference contribution

Problem absorption as an organizational learning mechanism in project-based companies: Process thinking perspective

General information
State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: Tampere University of Technology, Pori
Authors: Koskinen, K. U.
Pages: 308-316
Publication date: 2012
Peer-reviewed: Yes

Publication information
Volume: 30
Issue number: 3
Regional Knowledge Management in the Tampere Region

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Department of Business Information Management and Logistics
Authors: Käpylä, J., Salonius, H.
Pages: 1151-1176
Publication date: 2012

Host publication information
Title of host publication: Proceedings of IFKAD-KCWS 2012, 7th International Forum on Knowledge Asset Dynamics, 13-15 June, 2012, Matera, Italy
Place of publication: Matera, Italy
Publisher: Institute of Knowledge Asset Management
Editors: Schiuma, G., Spender, J., Yigitcanlar, T.
ISBN (Print): 978-88-96687-08-6
ISBN (Electronic): 978-88-96687-08-6

Publication series
Name: International Forum on Knowledge Asset Dynamics
Links:
http://www.knowledgeasset.org/IFKAD

Bibliographical note
Proceedingsin lukemiseen vaaditaan tunnuksset<br/>Contribution: organisation=tlo,FACT1=1<br/>Publisher name: Institute of Knowledge Asset Management
Source: researchoutputwizard
Source-ID: 4421
Research output: Scientific - peer-review › Conference contribution
Strategic knowledge services

General information
State: Published
Ministry of Education publication type: A3 Part of a book or another research book
Organisations: Tampere University of Technology, Pori
Authors: Vanharanta, H., Magnusson, C., Ingman, K., Holmblom, A. H., Kantola, J. I.
Pages: 527-555
Publication date: 2012

Host publication information
Title of host publication: Knowledge service engineering handbook
Publisher: CRC Press
Editors: Kantola, J., Karwowski, W.
ISBN (Print): 978-1-4398-5294-1
DOIs:
10.1201/b12043-26

Bibliographical note
ei ut-numeroa 21.9.2013<br/>Contribution: organisation=pori,FACT1=1
Source: researchoutputwizard
Source-ID: 5513
Research output: Scientific - peer-review » Chapter

Strategy needs structure, structure needs ontologies - dynamic ontologies carry meanings

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Tampere University of Technology, Pori
Authors: Vanharanta, H., Kantola, J.
Pages: 261-264
Publication date: 2012

Host publication information
Title of host publication: KMIS 2012, Proceedings of the International Conference on Knowledge Management and Information Sharing, Barcelona, Spain, 4-7 October, 2012
Place of publication: Portugal
Publisher: SCITEPRESS - Science and Technology Publications
Editors: Liu, K., Filipe, J.
ISBN (Print): 978-989-8565-31-0

Publication series
Name: International Conference on Knowledge Management and Information Sharing

Bibliographical note
ei ut-numeroa 21.9.2013<br/>Contribution: organisation=pori,FACT1=1<br/>Publisher name: SciTePress - Science and Technology Publications
Source: researchoutputwizard
Source-ID: 5511
Research output: Scientific - peer-review » Conference contribution

Supply chain as an autopoietic system

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Tampere University of Technology, Pori
Authors: Breite, R., Koskinen, K. U.
Number of pages: 13
Pages: 1-13
Publication date: 2012
Tampere Region under the Microscope: a Critical Analysis from the Knowledge Perspective

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Department of Business Information Management and Logistics
Authors: Yigitcanlar, T., Lönnqvist, A., Käpylää, J., Salonius, H.
Pages: 1299-1322
Publication date: 2012

Host publication information
Title of host publication: Proceedings of IFKAD-KCWS 2012, 7th International Forum on Knowledge Asset Dynamics, 13-15 June, 2012, Matera, Italy
Place of publication: Matera, Italy
Publisher: Institute of Knowledge Asset Management
Editors: Schiuma, G., Spender, J., Yigitcanlar, T.
ISBN (Print): 978-88-96687-08-6
ISBN (Electronic): 978-88-96687-08-6

Publication series
Name: International Forum on Knowledge Asset Dynamics
Links:
http://www.knowledgeasset.org/IFKAD

Bibliographical note
Proceedings in lukemiseen vaaditaan tunnuksset

The evaluation of the collocational method in the marketing context

General information
State: Published
Ministry of Education publication type: A3 Part of a book or another research book
Organisations: Tampere University of Technology, Pori
Authors: Järvi, P., Magnusson, C., Vanharanta, H.
Pages: 432-440
Publication date: 2012

Host publication information
Title of host publication: Readings in Business & Administrative Sciences
Place of publication: Saarbruecken
Publisher: LAP LAMBERT Academic Publishing
Editor: Korukonda, A. R.
ISBN (Print): 978-3-659-16866-6
Links:
The formation of coordinative knowledge practices in distributed work: Towards an explanatory model

General information
State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: Department of Business Information Management and Logistics, Augmented Human Activities (AHA)
Authors: Franssila, H., Okkonen, J., Savolainen, R., Talja, S.
Pages: 650-665
Publication date: 2012
Peer-reviewed: Yes

Publication information
Journal: Journal of Knowledge Management
Volume: 16
Issue number: 4
ISSN (Print): 1367-3270
Ratings:
Scopus rating (2016): SJR 1.138 SNIP 2.131 CiteScore 3.48
Scopus rating (2015): SJR 1.224 SNIP 2.239 CiteScore 3.06
Scopus rating (2014): SJR 1.134 SNIP 2.357 CiteScore 2.87
Scopus rating (2013): SJR 0.952 SNIP 1.986 CiteScore 2.8
Scopus rating (2012): SJR 0.959 SNIP 1.9 CiteScore 2.58
Scopus rating (2011): SJR 0.859 SNIP 2.142 CiteScore 2.13
Scopus rating (2010): SJR 0.671 SNIP 1.397
Scopus rating (2009): SJR 0.759 SNIP 1.478
Scopus rating (2008): SJR 0.962 SNIP 1.683
Scopus rating (2007): SJR 0.593 SNIP 1.045
Scopus rating (2006): SJR 0.345 SNIP 0.848
Scopus rating (2005): SJR 0.23 SNIP 0.381
Scopus rating (2004): SJR 0.253 SNIP 0.706
Scopus rating (2003): SJR 0.256 SNIP 0.65
Scopus rating (2002): SJR 0.261 SNIP 0.652
Scopus rating (2001): SJR 0.268 SNIP 0.565
Scopus rating (2000): SJR 0.132 SNIP 0.111
Scopus rating (1999): SJR 0.1 SNIP 0
Original language: English
DOIs:
10.1108/13673271211246202

The paradigm shift from product innovation to service innovation

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Tampere University of Technology, Pori
Authors: Aramo-Immonen, H., Mittilä, T.
The project-based company as an autopoietic knowledge system

General information
State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: Tampere University of Technology, Pori
Authors: Koskinen, K. U.
Pages: 134-149
Publication date: 2012
Peer-reviewed: Yes

Publication information
Journal: International Journal of Knowledge and Learning
Volume: 8
Issue number: 1/2
ISSN (Print): 1741-1009
Ratings:
Scopus rating (2016): SJR 0.11 SNIP 0.681 CiteScore 0.32
Scopus rating (2015): SJR 0.135 SNIP 0.515 CiteScore 0.41
Scopus rating (2014): SJR 0.162 SNIP 0.347 CiteScore 0.44
Scopus rating (2013): SJR 0.108 SNIP 0.495 CiteScore 0.4
Scopus rating (2012): SJR 0.152 SNIP 0.235
Scopus rating (2011): SJR 0.211 SNIP 0.695
Scopus rating (2010): SJR 0.446 SNIP 1.416
Scopus rating (2009): SJR 0.549 SNIP 1.392
Scopus rating (2008): SJR 0.471 SNIP 1.349
Scopus rating (2007): SJR 0.496 SNIP 0.811
Scopus rating (2006): SJR 0.142 SNIP 0.743
Original language: English

Bibliographical note
ei ut-numeroa 19.8.2013<br/>Contribution: organisation=pori,FACT1=1<br/>Publisher name: Inderscience Publishers
Source: researchoutputwizard
Source-ID: 4548
Research output: Scientific - peer-review › Article
Tietojohtaminen lisää tuottavuutta

General information
State: Published
Ministry of Education publication type: E1 Popularised article, newspaper article
Organisations: Department of Business Information Management and Logistics
Authors: Helander, N., Lönnqvist, A.
Pages: 23-23
Publication date: 2012
Peer-reviewed: Unknown

Bibliographical note
Contribution: organisation=tlo,FACT1=1
Source: researchoutputwizard
Source-ID: 4204
Research output: General public › Article

Tietojohtaminen osaksi kunnan strategista johtamista

General information
State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: Department of Business Information Management and Logistics
Authors: Jalonen, H., Laihonen, H., Lönnqvist, A.
Pages: 138-147
Publication date: 2012
Peer-reviewed: Yes

Bibliographical note
Contribution: organisation=tlo,FACT1=1
Source: researchoutputwizard
Source-ID: 10024/33697
Artikkeli saatavilla sähköisessä muodossa keväällä 2013: https://www.doria.fi/handle/10024/33697

**Contribution:**
organisation=tlo,FACT1=1

**Publisher name:** Hallinnon Tutkimuksen Seura ry

**Source:** researchoutputwizard

**Source-ID:** 4329

**Research output:** Scientific - peer-review › Article

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**Toimijoiden roolit logistiikkakeskusten kehittämisessä**

**General information**
State: Published

Ministry of Education publication type: D2 Article in professional manuals or guides or professional information systems or text book material

Organisations: Department of Information Management and Logistics

Authors: Rantala, J., Eckhardt, J.

Number of pages: 4

Pages: 59-62

Publication date: 2012

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**Host publication information**

Title of host publication: Logistiikkakeskuksen kehittäjän käsikirja

Place of publication: Hyvinkää

Publisher: Teknologiakeskus TechVilla Oy

ISBN (Print): 978-952-1164-4


Links:

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**Bibliographical note**

Vaihdettu luokka b2 -> d2 2013-07-12

**Contribution:** organisation=tlo,FACT1=1

Portfolio EDEND: 2013-06-29

**Source:** researchoutputwizard

**Source-ID:** 5150

**Research output:** Professional › Chapter

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**Towards a critical societal knowledge management**

**General information**
State: Published

Ministry of Education publication type: A1 Journal article-refereed

Organisations: Department of Business Information Management and Logistics

Authors: Käpylä, J.

Pages: 288-304

Publication date: 2012

Peer-reviewed: Yes

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**Publication information**

Journal: Journal of Intellectual Capital

Volume: 13

Issue number: 3

ISSN (Print): 1469-1930

Ratings:

Scopus rating (2016): SJR 0.715 SNIP 2.283 CiteScore 3.05

Scopus rating (2015): SJR 0.869 SNIP 2.183 CiteScore 3.54

Scopus rating (2014): SJR 0.75 SNIP 1.556 CiteScore 3.24

Scopus rating (2013): SJR 0.91 SNIP 2.464 CiteScore 3.17

Scopus rating (2012): SJR 0.627 SNIP 1.95 CiteScore 1.82

Scopus rating (2011): SJR 0.519 SNIP 1.798 CiteScore 2.09

Scopus rating (2010): SJR 0.509 SNIP 1.388

Scopus rating (2009): SJR 0.508 SNIP 1.47

Scopus rating (2008): SJR 0.686 SNIP 1.615

Scopus rating (2007): SJR 0.501 SNIP 1.21

Scopus rating (2006): SJR 0.227 SNIP 0.358

Scopus rating (2005): SJR 0.196 SNIP 0.423
Analytical framework for assessing performance measurement practices in service operations

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Department of Business Information Management and Logistics, Department of Industrial Management
Authors: Jääskeläinen, A., Laihonen, H., Lönnqvist, A., Palvalin, M., Sillanpää, V., Pekkola, S., Ukko, J.
Pages: 815-829
Publication date: 2011

Host publication information
Title of host publication: Proceedings of 6th International Forum on Knowledge Asset Dynamics IFKAD, 15-17 June 2011, Tampere, Finland
Place of publication: Matera, Italy
Publisher: Institute of Knowledge Asset Management

Applying Lean thinking and principles in the context of PLM

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Department of Business Information Management and Logistics
Authors: Papinniemi, J., Kärkkäinen, H., Ishii, K.
Number of pages: 11
Publication date: 2011

Host publication information
Title of host publication: Proceedings of the XXII ISPIM Conference, Hamburg, Germany, 12-15 June, 2011
Place of publication: Manchester
Publisher: International Society for Professional Innovation Management ISPIM
ISBN (Print): 978-952-265-092-4

Arvoverkkoa kokemassa - saaliina tuottavuutta ja innovaatioita

General information
State: Published
Ministry of Education publication type: C1 Separate scientific books
Organisations: Department of Business Information Management and Logistics
Authors: Jalonen, H., Aarva, K., Juntunen, P., Laihonen, H., Laitinen, I., Lönnqvist, A.
Number of pages: 165
Publication date: 2011

Publication information
Place of publication: Helsinki
Publisher: Suomen Kuntaliitto