

First principles prediction of the solar cell efficiency of chalcopyrite materials  $\text{AgMX}_2$  (M=In, Al; X=S, Se, Te)

DroneRF dataset

A dataset of drones for RF-based detection, classification and identification

Automatization and stress analysis data of CoCr laser weld fatigue tests

Teacher's Perceptions and Readiness to Teach Coding Skills

A Comparative Study Between Finland, Mainland China, Singapore, Taiwan, and South Korea

Diffusion of innovation

Case of co-design of cabins in mobile work machine industry

Accurate impedance model of grid-connected inverter for small-signal stability assessment in high-impedance grid

Modelling the stressed skin effect by using shell elements with meta-material model

Experimental moment resistance of rectangular hollow section T joints

Tutkimuskatsaus: Uusia menetelmiä haavan paranemisen arviointiin ja seurantaan

Translated title of the contribution: : Scientific review: New methods for assessment and monitoring of chronic wounds

Evaluation of Median Root Prior for Robust In-Beam PET Reconstruction

Effect of radiation inside square hollow section under moderate non-symmetric fire

Effect of elevated nitrate and sulfate concentrations on selenate removal by mesophilic anaerobic granular sludge bed reactors

In vitro characterization of arylhydrazones of active methylene derivatives

Cold-formed RHS T joints with initial geometrical imperfections

基于相位旋转的SCMA码本优化方法

Translated title of the contribution: : SCMA codebook optimization method based on phase rotation

Core Project Team As a Management Entity for Construction Projects

Kehittämistutkimus: vuorovaikutteisten Matlab-opetusohjelmien vaikutus minäpystyvyyteen ja oppimistuloksiin yliopistomatematiikassa

Yliopistomatematiikan sähköisten tehtävien ja matemaattisen ajattelun kehittäminen

Projektityöskentelyn kehittäminen yläkoulun matematiikan opetuksessa

Analysis of outdoor and indoor propagation at 15 GHz and millimeter wave frequencies in microcellular environment

Enhanced outdoor to indoor propagation models and impact of different ray tracing approaches at higher frequencies

Electro-optic steering of random laser emission in liquid crystals

Assessing the usefulness of an early idea development tool among experienced researchers

Sata vuotta vesihuoltoa Suomessa

Translated title of the contribution: : One hundred years of water services in Finland

Probabilistic Mapping of Human Visual Attention from Head Pose Estimation

Inkjet printed metallic micropillars for bare die flip-chip bonding

The effect of tungsten carbide particles content in a weld deposit on its abrasion resistance

Comparative investigation of remote tracking devices for aging care

NB-IoT for D2D-enhanced content uploading with social trustworthiness in 5G systems

Natural Gas Engine Emission Reduction by Catalysts

Influence of the rotor eccentricity on the torque of a cage induction machine

Kactus2: A graphical EDA tool built on the IP-XACT standard

Editorial: Information to support decision-making

Alkyl thiophene vinylene electropolymerization in C8mimPF6, potential use in solar cells

Collagen-immobilized polyimide membranes for retinal pigment epithelial cell adherence and proliferation

Reaction heat utilization in aluminosilicate-based ceramics synthesis and sintering

Effect of Laser Power on Yield of TiO<sub>2</sub> Nanoparticles Synthesized by Pulsed Laser Ablation in Water

Evolutionary multiobjective optimization for adaptive dataflow-based digital predistortion architectures

Suomen vesihuollon kehitys ja opit kansainvälisessä kontekstissa

Translated title of the contribution: : The development of Finnish water services and doctrine in an international context

Three-color vector nematicon

Manipulating Superparamagnetic Microparticles with an Electromagnetic Needle

Securing the flow of information in renovation projects  
Sustainable synergies from buildings to the urban scale

Teoriaa ja kokemuksia arvioinnista MOOCien aikakaudella

Image-based characterization of the pulp flows

Data including GROMACS input files for atomistic molecular dynamics simulations of mixed, asymmetric bilayers including molecular topologies, equilibrated structures, and force field for lipids compatible with OPLS-AA parameters

Parameters Affecting the Upcycling of Waste Cotton and PES/CO Textiles

Architecture beyond signs and symbols : Zumthor's response to the problems of aesthetics

Adaptive fuzzy inference system based directional median filter for impulse noise removal

Fully printed memristors for a self-sustainable recorder of mechanical energy

Quenching nematic fluctuations via photo-stabilization

First-principles data set of 45,892 isolated and cation-coordinated conformers of 20 proteinogenic amino acids

Linear and nonlinear light beam propagation in chiral nematic liquid crystal waveguides

Influence of environmental conditions on EMF levels in a span of overhead transmission lines

High efficiency dilute nitride solar cells  
Simulations meet experiments

Target tracking via combination of particle filter and optimisation techniques

Surrogate modeling for initial rotational stiffness of welded tubular joints

Preparation and antimicrobial characterization of silver-containing packaging materials for meat

LTCC-Based Multi-Electrode Arrays for 3D in Vitro Cell Cultures

Time-resolved characterization of primary and secondary particle emissions of a modern gasoline passenger car

SimpleTree  
An Efficient Open Source Tool to Build Tree Models from TLS Clouds

Energy Retrofits in Multi-family Buildings in North-east Europe: The Impacts on Thermal Conditions

Building new computational models to support health behavior change and maintenance  
new opportunities in behavioral research

Effects of subsampling on characteristics of RNA-seq data from triple-negative breast cancer patients

Towards a Classification Schema for Development Technologies: an Empirical Study in the Avionic Domain

The effects of neuron morphology on graph theoretic measures of network connectivity  
The analysis of a two-level statistical model

Distributed power allocation over indoor multi-pico stations

Microrobotic system for multi-rate measurement of bio-based fibres Z-directional bond strength

Cancer research in the era of next-generation sequencing and big data calls for intelligent modeling

Testing the near field/far field model performance for prediction of particulate matter emissions in a paint factory

Acquisition of E5 Galileo signals in Matlab

Comparison of Detection Techniques for Multipath Propagation of Pseudolite Signals Used in Dense Industrial Environments

Entropy of weighted graphs with Randić weights

Assessing coupling dynamics from an ensemble of time series

Cross-Cultural Design of Mobile Mathematics Learning Service for South African Schools

Relational Capital for Shared Vision in Innovation Ecosystems

Heat Loss Rate of the Finnish Building Stock

Management and Planning Under Complexities of Metro Construction

Human Factor in Time Management

Monitoring urban air quality with a diffusion charger based electrical particle sensor

Stirring the Construction Project Management with Co-creation and Continuous Improvement

Theoretical 71-Concept Platform for Advancing Construction-related Business Management

Safety, Space and Structure Quality Requirements in Construction Scheduling

A Cross-Cultural and Gender-Based Perspective for Online Security: Exploring Knowledge, Skills and Attitudes of Higher Education Students.

Lean-tuotanto ja sen johtaminen: onnistuminen, haasteet ja soveltuminen Suomen yrityksiin ja muihin organisaatioihin  
Translated title of the contribution: : Lean production and management: success, challenges and applicability in Finnish organizations

Air pressure difference between indoor and outdoor or staircase in multi-family buildings with exhaust ventilation system in Finland

A Co-creation Centre for University–Industry Collaboration – A Framework for Concept Development

Resilient Asset Management and Governance For deteriorating Water Services Infrastructure

Social and Economic Importance of Water Services in the Built Environment: Need for More Structured Thinking

Systematic Search and Ranking of Physical Contradictions Using Graph Theory Principles: Toward a Systematic Analysis of Design Strategies and their Impacts  
TRIZ and Knowledge-Based Innovation in Science and Industry

Kohti tasapuolisempaa tutkimuksen arviointia  
Pääkirjoitus

Translated title of the contribution: : Towards better balanced research assessment: Editorial

Importance and challenges of sharing experiences among an international and interdisciplinary group of doctoral students

Development of chip-surface stimulus electrode array for fully-implantable subretinal prosthesis chip

Development of Si neural probe module with adjustable gain amplifier for neuronal signal recording

Knowledge Management Practices in Large Companies

Design: A Key Stage of Product Lifecycle

Vesihuollon haasteet Suomessa  
– saneerausvelka ja tutkimusresurssien puute ongelma

Translated title of the contribution: : Challenges of water services in Finland : overdue upgrades and scanty research resources as problems

Printed and organic diodes: devices, circuits and applications

Vesi, ongelma ennen ja nyt?

Local narratives in the long term water conflicts  
Case of Turku Region in Finland

Sata vuotta Suomen suurimmasta lavantautiepidemiasta

Valkea kaupunki, mustat vedet

A review study of photovoltaic array maximum power point tracking algorithms

Future in wood? Timber construction in boosting local development.

Обзор параметрических методов позиционирования на основе концепции отпечатка пальца  
Translated title of the contribution: : A Survey of Parametric Fingerprint-Positioning Methods

Interdisciplinary water research network building within Nordic and Baltic countries.

Nanocellulose as a Piezoelectric Material

Technical suitability of the fine fraction of municipal solid waste incineration bottom ash to the landfill capping liner

Quality evaluation on of contractor's schedule for building renovation

Tools, pedagogical models, and best practices for digital storytelling

The use of mathematical modeling for the development of a low cost fuzzy gain schedule neutralization control system

Reinventing organisational creativity and innovation through adapting a service-based working culture

Glass and Glass-Ceramic Scaffolds: Manufacturing Methods and the Impact of Crystallization on In-Vitro Dissolution

Effects of Social Media on Consumers' Sports Brand Experiences and Loyalty

Re-inventing organizational creativity and innovation through adopting a service-based working culture

icellfusion

Tool for fusion and analysis of live-cell images from time-lapse multimodal microscopy

Learning Maths with mobiles

Cross-cultural design of technology with experiences in South-Africa and Finland

Framework for optimization and scheduling of a copper production plant

Crowdsourcing in Business-to-Business Markets: A Value Creation and Business Model Perspective

On Polyglot Programming in the Web

Two models for hydraulic cylinders in flexible multibody simulations

Probabilistic Framework for Modelling the Evolution of Geomorphic Features in 10,000-Year Time Scale: The Eurajoki River Case

Functional model for organisational and safety culture

Learning maths with mobiles

Cross-cultural design of technology with experiences in South-Africa and Finland

The New Era of Crowdsourcing — Industrial Crowdsourcing

Jossakin vuoti öljy, muualla tihkuivat tiedot - etiikka katoavien rajojen ja suurten skandaalien aikakaudella

Townhouse-talotyypin rakennuskustannukset: kolmen suunnitteluratkaisun taloudellisuuden analysointi

Aluetehokkuuden kustannusvaikutukset

On service composition - dynamic formation and orchestration of service workflows

Classification of Knowledge Representation Implementations in the Manufacturing Systems Domain

A Proposal of Decentralized Architecture for OKD-MES

Water services heritage and institutional diversity

Impact analysis of graph-based requirements models using PageRank algorithm

OSS-TMM  
Guidelines for improving the testing process of open source software

Glove-Integrated Textile Antenna with Reduced SAR for Wearable UHF RFID Reader

Clothing-Integrated Passive RFID Strain Sensor Platform for Body Movement-Based Controlling

High Peak Power Laser Diodes for Eye Safe LIDAR with Integrated Wavelength Locking Element

Participatory service design and community involvement in designing future-ready sustainable learning landscapes

User-driven development with scientific applied research - RFID-controlled physiogame case study

A Batteryless Semi-Passive RFID Sensor Platform

Discovering collaborative and inclusive solutions to co-create multidimensional value in cross-sector collaboration

Research-industry collaboration: a review of the literature on evaluation methods and motivations

Visibility-Aware Part Coding for Vehicle Viewing Angle Estimation

Enabling cybersecurity incident reporting and coordinated handling for maritime sector

Profile extraction and deep autoencoder feature extraction for elevator fault detection

Empirical study of good, bad and ugly modular engineering solutions in machinery manufacturing industry

Actors' agency in the routines of innovation project portfolio management

The circular economy of projects

Normalization of deviance in the construction industry, a managerial perspective

Knowledge management practices to overcome network-level knowledge barriers: an artificial intelligence powered literature review

Double-side pumped membrane external-cavity surface-emitting laser (MECSEL) with increased efficiency emitting > 3 W in the 780 nm region

Optical Frequency Comb Photoacoustic Spectroscopy

Frequency Comb Generation in a Continuous-Wave Pumped Second-Order Nonlinear Waveguide Resonator

High-Q resonance train in a plasmonic metasurface

A Semantic Meta-Model Repository for Lightweight M2M

Muovipäällysteisten lattioiden vaurioituminen kosteuden vaikutuksesta

Large mode area double clad ytterbium tapered fiber with circular birefringency

Analysis of upconversion nanoparticles as an active medium for upconversion light sources

A model for profiling information and knowledge management in the public sector

Mean and variability in RNA polymerase numbers are correlated to the mean but not the variability in size and composition of Escherichia coli cells

Random lasing control with optical spatial solitons in nematic liquid crystals

MECSELS with direct emission in the 760 nm to 810 nm spectral range  
A single- and double-side pumping comparison and high-power continuous-wave operation

1.55- $\mu\text{m}$  wavelength wafer-fused OP-VECSELS in flip-chip configuration

From monolithic systems to microservices  
A decomposition framework based on process mining

405-nm pumped  $\text{Ce}^{3+}$ -doped silica fiber for broadband fluorescence from cyan to red

Observation of local electroluminescent cooling and identifying the remaining challenges

1.3 $\mu\text{m}$  U-bend traveling wave SOA devices for high efficiency coupling to silicon photonics

Dynamics of value in technology inspired value co-creation: Case in homecare value network



Smartphone teleoperation for self-balancing telepresence robots

Revisiting gray pixel for statistical illumination estimation

Benchmarking of several disparity estimation algorithms for light field processing

Action and power efficiency in self-organization

The case for growth efficiency as a cellular objective in escherichia coli

Revisiting Social Media Tie Strength in the Era of Data Access Restrictions

Farm detection based on deep convolutional neural nets and semi-supervised green texture detection using VIS-NIR satellite image

Single exposure lensless subpixel phase imaging

Business intelligence process model revisited

Challenges in developing data-based value creation

Co-creating digital services for citizens

Activity theory analysis

Performance Enhancement Of Optimized Link State Routing Protocol For Health Care Applications In Wireless Body Area Networks

The Effects of Product Line Length on Firm Performance

Social capital characteristics in RD project networks

Technopreneurial Characteristics Rising from the Ashes of Creative Destruction

Analysis of User Exploration Patterns during Scene Cuts in Omnidirectional Videos

Long-term monitoring of acute wound healing from beneath the primary wound dressings

Glove-integrated slotted patch antenna for wearable UHF RFID reader

RF energy harvesting system with RFID-enabled charge storage monitoring

Referenced backscattering compression level indicator based on passive UHF RFID tags

Constrained Long-Horizon Direct Model Predictive Control for Synchronous Reluctance Motor Drives

2D Video Coding of Volumetric Video Data

Web User Interface Implementation Technologies: An Underview

Multi-site delamination analysis using virtual crack closure technique for a composite aircraft wing flap

Fabrication and Practical Evaluation of Glove-integrated Passive UHF RFID Tags

Comparison of food frequency questionnaire data and shopping records for the assessment of food intake

Model-based cosimulation for industrial wireless networks

Improved modelling of electric loads for enabling demand response by applying physical and data-driven models  
Project Response

Moving toward integrated solutions in project-based firms: Changes in sales practices

Systematic literature review on customer emotions in social media

Fabrication and reliability evaluation of passive UHF RFID T-shirts

Education on the utilization of secondary materials in earthworks

Dual-frequency signal processing architecture for robust and precise positioning applications

Toward Manageable Data Sources

Industrial customers' organizational readiness for service innovations  
Adopting data-based advanced services

Requirements from industrial internet for innovations in advanced industrial services

Lifecycle-oriented framing of value at the front end of infrastructure projects

Agency relationships in global project business

Re-use of engineering design rationale in Finnish SME project based industry

Ready to sell? Requirements for promoting service selling in a manufacturing firm

Measurements of impact force excitation on wooden floors

Finnish Round Robin Test on Airborne Sound Insulation

Ultra-large mode area single frequency anisotropic MOPA with double clad Yb-doped tapered fiber

Sub-100 fs pulse generation from a Tm,Ho  
CALYO laser mode-locked by a GaSb-based SESAM at ~2043 nm

Process time importance in the product properties evolution during extrusion coating of different LDPE grades

Multiwavelength surface contouring from phase-coded diffraction patterns

Digital image correlation study of the deformation and functioning of the human heart during open-heart surgery

Internal Heat Generation in Tension Tests of AISI 316 Using Full-Field Temperature and Strain Measurements

Effects of adiabatic heating estimated from tensile tests with continuous heating

Adaptive Feedback in Local Coordinates for Real-time Vision-Based Motion Control Over Long Distances

Eye-in-Hand Manipulation for Remote Handling: Experimental Setup

Gibbs Dyadic Differentiation on Groups - Evolution of the Concept

Real-time human pose estimation with convolutional neural networks

Evaluation of visual object trackers on equirectangular panorama

360 panorama super-resolution using deep convolutional networks

Elementary math to close the digital skills gap

Keyframe-based video summarization with human in the loop

Hierarchical deformable part models for heads and tails

Making the cloud work for software producers  
Linking architecture, operating cost and revenue

Development of efficient electrically pumped nanolasers based on InAlGaAs tunnel junction

Frequency-doubled VECSEL employing a Volume Bragg Grating for linewidth narrowing

High performance GaSb superluminescent diodes for tunable light source at 2  $\mu\text{m}$  and 2.55  $\mu\text{m}$

Frequency-doubled wafer-fused 638 nm VECSEL with an output power of 5.6 W

Alpha radiation induced luminescence in solar blind spectral region

Sub-parts-per-trillion sensitivity in trace gas detection by cantilever-enhanced photo-acoustic spectroscopy

Real-time measurements of nonlinear instabilities in optical fibers

A social capital perspective on gaining optimal solutions from suppliers as preferred customer

Integrated multi-wavelength mid-IR light source for gas sensing

Model for efficient development of security audit criteria

Highly-efficient Ho:KY(WO<sub>4</sub>)<sub>2</sub> thin-disk lasers at 2.06 μm

Automated pile transfer work cycles with a robotic wheel loader

JPEG Pleno: a standard framework for representing and signaling plenoptic modalities

Underpinning Interrelated Factors of Physical, Virtual, and Social Learning Environments

Laser Scanning Tasks of Building Refurbishment Project

Architectural patterns for microservices  
A systematic mapping study

Action recognition using the 3D dense microblock difference

High-speed manufacturing of antimicrobial paper

Evaluating the contrast of planar periodic patterns on paper

High power picosecond MOPA with anisotropic ytterbium-doped tapered double-clad fiber

What's inside a rubble pile asteroid? DiSCUS - A tomographic twin radar Cubesat to find out

Mechanisms of disruptive technological change  
Case studies in transformation of traditional industries

Comparative evaluation of radio propagation properties at 15 GHz and 60 GHz frequencies

Upper bound and approximation of random access throughput over chase combining HARQ

Multi-factor authentication: A survey and challenges in V2X applications

Wearable e-textile split ring passive UHF RFID tag: Body-worn performance evaluation

Analysis of Crowdsensed WiFi Fingerprints for Indoor Localization

Electrostatic discharge characteristics of conductive polymers

Qualification challenges of footwear and flooring systems

Indoor Localisation using Aroma Fingerprints: A First Sniff

Rational Number Knowledge Assessment and Training With a Game Competition

Embroidered antennas and antenna-electronics interfaces for wearable RFID tags

Knowledge sharing in knowledge collectivity: case digitalization in industrial network

Tuning extrinsic noise effects on a small genetic circuit

Printed soft-electronics for remote body monitoring

Who is who in Big Social Data?  
A Bibliographic Network Analysis Study

Applying third-party moocs in programming education: a case study

Maximally Flat Property and Bandwidth Enhancing by Transfer Function Zeroes IEEE-NewCAS France

On the prospects of full-duplex military radios

Morphology Development, Structure and Dielectric Properties of Biaxially Oriented Polypropylene

The role of inorganics in modelling of biomass gasification

Managing intellectual liabilities by service recovery

If you know social media, you see opportunities...

A bibliometric study on authorship trends and research themes in knowledge management literature

Why don't one maximizes database utilization in product and service development in manufacturing?

Advocator, jester, spokesperson, provocateur and boundary spanner? Exploring different communication styles at twitter

Customer Perceived Value - A Key in Marketing of Integrated Solutions

Reliability and Perceived Value of Sentiment Analysis for Twitter Data

Social Media Analytics Empowering Customer Experience Insight

Managing different types of changes during the lifecycle of a complex delivery project

Visual Data Mining in Software Repositories: A Survey

Culture-Aware Web Information Systems in Dependence of Context

The logics taught and used at high schools are not the same

Instrumentation and monitoring of large-span culvert built under a railway, in Finland

HEVC-compliant viewport-adaptive streaming of stereoscopic panoramic video

Towards better knowledge work experiences with new Ambient workspace  
Concept and prototype

Wirelessly powered implantable system for wireless long-term monitoring of intracranial pressure

Cost- and time-effective sewing patterns for embroidered passive UHF RFID tags

1180 nm GaInNAs quantum well based high power DBR laser diodes

Multi-wavelength mid-IR light source for gas sensing

Intracavity double diode structures with GaInP barrier layers for thermophotonic cooling

Color-distribution similarity by information theoretic divergence for color images

Novel equipment to simulate hot air heat sealability of packaging materials

Effect of air gap on the adhesion of PET layer on cardboard substrate in extrusion coating

Novel bio-based materials for active and intelligent packaging

Cavitation erosion, slurry erosion and solid particle erosion performance of metal matrix composite (MMC) coatings  
sprayed with modern high velocity thermal spray processes

Tampere University of Technology, laboratory of materials science, paper converting and packaging technology Tampere,  
Finland

Multilag Frequency Estimation for High-Order BOC Signals in the Acquisition Stage

Dynamic laser speckle metrology with binarization of speckle patterns

Educating Computer Science Educators Online - A Racket MOOC for Elementary Math Teachers of Finland

Picosecond MOPA with ytterbium doped tapered double clad fiber

Web-user-interface system utilizing rhmei and open data for a water quality analyzer

VisualLabel: An Integrated Multimedia Content Management and Access Framework

Gamification at School

Eye tracking studies focusing on mathematics: a literature review

Real-Time Impedance-Based Stability Assessment of Grid Converter Interactions

Samsung and Volkswagen crisis communication in Facebook and Twitter  
A comparative study

The Web as a software platform  
Ten years later

Inter-organizational knowledge sharing barriers within an sme network: a case study

Perspectives on tools and applications supporting co-creation in knowledge work

Experiences from development of security audit criteria

The role of performance measurement in supplier-buyer value-creation

Modeling the process of dynamic resource sharing between LTE and NB-IoT services

Utilizing knowledge networks in virtual or augmented reality solution creation

Emotion-Gauge: Analyzing affective experiences in B2B customer journeys

Computational wavelength resolution for in-line lensless holography  
Phase-coded diffraction patterns and wavefront group-sparsity

Personality's effect on peer assessment ability in case method context

Comprehensive survey of similarity measures for ranked based location fingerprinting algorithm

Automatic Classification of Z-ring Formation Stages at the Single Cell Level in Escherichia Coli by Machine Learning

Convolutional Recurrent Neural Networks for Rare Sound Event Detection

From theories to game mechanics  
Developing a game for training rational numbers

Business intelligence approach – a practical tool for competence based curriculum development

Photo-acoustic Spectroscopy of Resonant Absorption in III-V Semiconductor Nanowires

A dynamical quality model to continuously monitor software maintenance

Experimenting traditional and modern reliability models in a 3-years european software project

Comparing two methods for Urban Complexity calculation using Shannon-Wiener index

The role of base substrate on barrier and convertability properties of Water based barrier coated (WBBC) paper and paperboard

Assessing business learning by analysing ERP simulation log files

Improving reliability of replicated message delivery in cellular machine-type communications

D2D communications for mobile devices: Technology overview and prototype implementation

How to develop a new innovation education tool: case of impact canvas

Business models in the circular economy: a structured multiple-case analysis

Multi-Objective Optimization of Fin Array Heat Sinks

Pedestrian Dead Reckoning with Particle Filter for Handheld Smartphone

Bioimpedance measurement system for evaluation of the status of wound healing

Project types and industrial collaboration in project-based learning

A Survey of People Movement Analytics Studies in the Context of Smart Cities

Terahertz band communications: Applications, research challenges, and standardization activities

Charge relaxation of slowly dissipative polymers

Charged cable-system ESD event

A coordination-based brokerage architecture for multi-cloud resource markets

Modeling the utilization of a multi-tenant band in 3GPP LTE system with Licensed Shared Access

Mid-Infrared Sources for Ultra-Broadband Cavity Enhanced Spectroscopy

Modelling and Simulation of Radial Spruce Compression to Optimize Energy Efficiency in Mechanical Pulping

Students' Use of Learning Tools and Tool Types  
Solving Self-Study Assignments on an Online Platform



Electronic Exam in Electronics Studies

Developing Learning and Teaching in Engineering Mathematics with and without Technology

Implementing of Activating Learning Strategy for a Course on Electric Drives

Affective experiences and student engagement in higher education

Students as mystery shoppers  
lowering knowledge sharing barriers in higher education

New introductory courses and teacher tutoring  
Keys to an efficient beginning for university studies in engineering

Towards better learning by increased student engagement

Industrial impact on topics and types of Master's theses  
Empirical study of software engineering theses made in 1990-2016

Validating information security framework for offloading from LTE onto D2D links

Handheld wireless authentication key and secure documents storage for the Internet of Everything

Knowledge barriers in university-industry knowledge networks

Increasing the environment-awareness of rake beamforming for directive acoustic sources

DCASE 2016 Acoustic Scene Classification Using Convolutional Neural Networks

Strengthening student engagement by integrating the contents of a flipped course around a well-confined real life theme

MathCheck: a tool for checking math solutions in detail

Integrating mobile orienteering to team forming activity in a software engineering course

Finnish Engineering Education for Sustainable Development in 2016 - Call for collaborative learning

Capturing knowledge from research projects: From project reports to storytelling

Simulation studies of DFB laser longitudinal structures for narrow linewidth emission

Transverse structure optimization of laterally-coupled ridge waveguide DFB lasers

Simulation of photon-photon resonance enhanced direct modulation bandwidth of DFB lasers

Implementation Experiences and Design Challenges for Resilient SDN Based Secure WAN Overlays

Observing Hidden Service Directory Spying with a Private Hidden Service Honeynet

Home Network Security: Modelling Power Consumption to Detect and Prevent Attacks on Homenet Routers

Third places and user preferences – affordances in the cities

Study on the capability to measure stakeholders' brand experiences with a consumer-centric measurement framework

Customer value management framework for supply chains

In vivo single-molecule dynamics of transcription of the viral T7 Phi 10 promoter in Escherichia coli

Using a synthetic probe to study the robustness of the segregation process of protein aggregates in Escherichia coli

Demolished buildings

Empirical evidence on types, ages and construction materials

Demolition Rates of Buildings with Different Functions and Construction Materials

Knowledge integration method development for multi-stakeholder innovation

Exploring how brand experience measurement could be used for integrating marketing and R&D

Multiple facets of innovation and business ecosystem research: the foci, methods and future agenda

Customer lifetime value in manufacturing services

Management accounting and new service development under servitization: literature review and case studies

Management accounting in managerial work: engaging facts and feelings in decision making

Does Strategic and Innovative Fit Indicate Smart Social Media use in a Company?

Being a start-upper in Italy

Motivations, obstacles and success factors

Improving the Situation Awareness of DSOs in Major Disturbances by Visualizing the State of Mobile Networks

Enablers and Restraints of Knowledge Work – Does profession make a difference?

Adapting service-based working culture as the key driver for organisational creativity and innovation

Single-frequency 571nm VECSEL for photo-ionization of magnesium

Practice of project control under different levels of complexity in engineering projects

Handling exceptional situations in a distribution network congestion management algorithm

Incremental service innovations in a manufacturing firm's delivery chain

Service orientation and innovation in the strategies of manufacturing SMEs

Car Type Recognition with Deep Neural Networks

Disruptive innovation in ecosystems: Path-creation and institutional barriers

Electricity Distribution Network Tariffs - Present Practices, Future Challenges and Development Possibilities

In-band-pumped mode-locked Ho:YAG ceramic laser at 2.1  $\mu\text{m}$

Relevance of five generic business ideation approaches vis-a-vis contexts embedded within construction markets

Radical programmes for developing the EU residential building sectors as exemplified by Finland and the Netherlands

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

Durability study on high speed water hydraulic miniature on/off-valve

A Variable Battery Supply DC-DC Buck Converter Designed for 45nm-CMOS Technology

On Moderate Inversion/Saturation Regions As Approximations to "Reconciliation" Model

Optimal operation of a QCS scanner in a paper machine based on the information of QCS and WIS measurements

Strength increase below an old test embankment in Finland

Preliminary results from a study aiming to improve ground investigation data

The effect of climate change on the amount of wind driven rain on concrete facades

Enhancing the acceptance of advanced services among users of complex systems

Feasibility characterization of cryptographic primitives for constrained (wearable) IoT devices

Sisäympäristön laadun ja terveellisuuden arviointi energiaparannuskohteissa

InGaAs-QW VECSEL emitting  $>1.300\text{-nm}$  via intracavity Raman conversion

Difference frequency modulation of multi-section dual-mode lasers with nanoscale surface gratings

Random Value Impulse Noise Removal Based on Most Similar Neighbors

Lean manufacturing methods in simulation literature  
Review and association analysis

Optical amplifiers and lasers based on tapered fiber geometry for power and energy scaling with low signal distortion

A 1.5-W frequency doubled semiconductor disk laser tunable over 40 nm at around 745 nm

On Detecting the Shape of an Unknown Object in an Electric Field

Multicarrier modulation for HF communications

Short range HF radio channel measurements: Search for one path channels

DIC measurements of the human heart during cardiopulmonary bypass surgery

Quantitative Estimation of Long-living Fluorescent Molecules from Temporal Fluorescence Intensity Data Corrupted by Nonzero-mean Noise

Different approaches of the PLM maturity concept and their use domains –analysis of the state of the art

Analysis of Real Mobility Records in Urban and Suburban Environments

Extending Professional Fields. Architectural Research and Regional Development

Ventilation rates and CO<sub>2</sub>-levels before and after energy retrofit in Finnish apartment buildings

Building energy retrofits, occupant health and wellbeing

Building Codes and Demand Response of Energy Use

Consensus building in the pre-design phase of building projects

Bus Transportation Accessibility - Does It Impact Housing Values?

Real Time Measurements of Temporal Rogue Waves and Spontaneous Modulation Instability in Optical Fiber

Evolution equations based approach for modeling of fatigue in amorphous glassy polymers. On the investigation of fatigue damage development in polycarbonate

Characterising the industrial context of engineering change management

A follow-up case study of the relation of PLM Architecture, Maturity and Business processes

Need of Services and Understanding of Service Providers in Water and Sanitation: A Case of Ethiopia

Multiaxial magneto-mechanical modelling of electrical machines with hysteresis

Integrating III-V, Si, and polymer waveguides for optical interconnects  
RAPIDO

Backend infrastructure supporting audio augmented reality and storytelling

Enhancing old laboratory experiment using flipped learning  
Towards self-regulating collaborative groups in blended learning environment

Computer-supported collaborative learning  
Praxes in new cell-oriented configurable PC-classroom

Commercialising reclaimed materials in earthworks – guidelines for productization and the process of appending these materials in the Finnish national code of practice

Fabrication and characterization of broadband superluminescent diodes for 2  $\mu\text{m}$  wavelength

Accurate depth estimation from a sequence of monocular images supported by proprioceptive sensors

Computer vision aided navigation systems

High-power 1550 nm tapered DBR lasers fabricated using soft UV-nanoimprint lithography

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Validation of the method to evaluate the corrosion propagation stage by hygrothermal simulation

Optical fiber amplifier with spectral compression elements for high-power laser pulse generation

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Nanoscale barrier coating on BOPP packaging film by ALD

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Improved properties for packaging materials by nanoscale surface modification and ALD barrier coating

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