Analysis of common rail pressure signal of dual-fuel large industrial engine for identification of injection duration of pilot diesel injectors
Research output: Scientific - peer-review › Article

MergeTree: A Fast Hardware HLBVH Constructor for Animated Ray Tracing
Research output: Scientific - peer-review › Article

Concurrent Execution System for Action Languages
Research output: Scientific - peer-review › Conference contribution

Ecosystem Approach on Medical Game Development: The Relevant Actors, Value Propositions and Innovation barriers
Research output: Scientific - peer-review › Conference contribution

Ethics as a skill of software engineer?
Research output: Scientific - peer-review › Conference contribution

Problems of enterprise architecture adoption in the public sector: root causes and some solutions
Research output: Scientific - peer-review › Chapter

Towards Framework for Choosing 360-degree Video SDK
Research output: Scientific - peer-review › Conference contribution

Fast Hardware Construction and Refitting of Quantized Bounding Volume Hierarchies
Research output: Scientific - peer-review › Article

A bibliometric study on authorship trends and research themes in knowledge management literature
Research output: Scientific - peer-review › Conference contribution

Learning of a tracker model from multi-radar data for performance prediction of air surveillance system
Research output: Scientific - peer-review › Conference contribution

Foundational eHealth Curricula for the health care workforce
Research output: Professional › Paper, poster or abstract
Explaining the challenges in ERP development networks with triggers, root causes, and consequences
Research output: Scientific - peer-review › Article

Visualizing the Geography of Platform Boundary Resources: The Case of the Global API Ecosystem
Research output: Scientific - peer-review › Conference contribution

Analysing the role of crowdfunding in entrepreneurial ecosystems: A social media event study of two competing product launches
Research output: Scientific - peer-review › Article

Application for pre-processing and visualization of electrodermal activity wearable data
Research output: Scientific - peer-review › Conference contribution

Digitaalinen alustatalous
Research output: Professional › Chapter

Forecasting sales in industrial services: modeling business potential with installed base information
Stormi, K., Laine, T., Suomala, P. & Elomaa, T. 2017 In : JOURNAL OF SERVICE MANAGEMENT.
Research output: Scientific - peer-review › Article

Forecasting stock prices from limit order book using convolutional neural networks
Research output: Scientific - peer-review › Conference contribution

Infrastructures, integration and architecting during and after digital transformation
Research output: Scientific - peer-review › Chapter

Master data management and its organizational implementation: an ethnographical study within the public sector
Research output: Scientific - peer-review › Article

MULTI-POS: Lessons Learnt from Fellows and Supervisors
Research output: Scientific - peer-review › Chapter

Nursing students’ experiential learning processes using an online 3D simulation game
Research output: Scientific - peer-review › Article
Project types and industrial collaboration in project-based learning
Research output: Scientific - peer-review › Conference contribution

The nexus between social media behaviour, negative consumer emotions and brand disloyalty
Research output: Scientific › Paper, poster or abstract

Perceived risks in social media use – a longitudinal study among university students.
Research output: Scientific - peer-review › Conference contribution

Can e-government solutions enhance the work in municipalities?: empirical evidence from case lupapiste
Research output: Scientific - peer-review › Conference contribution

Identifying weak ties from publicly available social media data in an event
Research output: Scientific - peer-review › Conference contribution

The 5C categorization of social media tools
Research output: Scientific - peer-review › Conference contribution

Low-energy algorithm for self-controlled wireless sensor nodes
Research output: Scientific - peer-review › Conference contribution

Sosiaalinen media brändi- ja asiakastiedon lähteä
Research output: Scientific › Conference contribution

Developing a conceptual model for the relationship between social media behavior, negative consumer emotions and brand disloyalty
Research output: Scientific - peer-review › Conference contribution

Industrial impact on topics and types of Master's theses: Empirical study of software engineering theses made in 1990-2016
Research output: Scientific - peer-review › Conference contribution
SCP-ECG V3.0: An Enhanced Standard Communication Protocol for Computer-assisted Electrocardiography
Research output: Scientific - peer-review › Conference contribution

Integrating mobile orienteering to team forming activity in a software engineering course
Research output: Scientific - peer-review › Conference contribution

Blogging as a virtual co-learning environment in the international course context
Research output: Scientific - peer-review › Conference contribution

Experienced risks in social media use – longitudinal study among university students
Research output: Scientific - peer-review › Conference contribution

Car Type Recognition with Deep Neural Networks
Research output: Scientific - peer-review › Conference contribution

Vastuullisuusmallin kokeiluprojekti henkilöliikenneyrityksissä
Nykänen, L. & Lauhkonen, A. Jun 2016 Helsinki: Liikenteen turvallisuusvirasto Trafi. (Trafin tutkimuksia; no. 13)
Research output: Professional › Commissioned report

Transatlantic collection of health informatics competencies
Research output: Scientific - peer-review › Article

Gene set analysis approaches for RNA-seq data: performance evaluation and application guideline
Rahmatallah, Y., Emmert-Streib, F. & Glazko, G. 16 May 2016 In : Briefings In Bioinformatics. 17, 3, p. 393-407
Research output: Scientific - peer-review › Article

Wearable monitoring of physical functioning and disability changes, circadian rhythms and sleep patterns in nursing home residents
Research output: Scientific - peer-review › Article

Deep Neural Networks for Dynamic Range Compression in Mastering Applications
Mimilakis, S. I., Drossos, K., Virtanen, T. & Schuller, G. May 2016 Audio Engineering Society Convention 140. AES Audio Engineering Society
Research output: Professional › Conference contribution

Flow Cytometry-Based Classification in Cancer Research: A View on Feature Selection
Hassan, S. S., Ruusuvuori, P., Latonen, L. & Huttunen, H. 10 Apr 2016 In : Cancer Informatics. 2015, Suppl. 5, p. 75-85
Research output: Scientific - peer-review › Article
Health figures: an open source JavaScript library for health data visualization
Research output: Scientific - peer-review › Article

Real-Time Patient-Specific ECG Classification by 1-D Convolutional Neural Networks
Research output: Scientific - peer-review › Article

Learning to rank salient segments extracted by multispectral quantum cuts
Research output: Scientific - peer-review › Article

Longitudinal study on text entry by gazing and smiling
Research output: Scientific - peer-review › Conference contribution

Recurrent Neural Networks for Polyphonic Sound Event Detection in Real Life Recordings
Research output: Scientific - peer-review › Conference contribution

Depth Assisted Composition of Synthetic and Real 3D Scenes
Research output: Scientific - peer-review › Conference contribution

Non-uniform resampling in perspective compensated large scale 3D visualization
Shcherban, M., Suominen, O. & Gotchev, A. Feb 2016 Electronic Imaging: 3D Image Processing, Measurement (3DIPM), and Applications. IS&T/SPIE
Research output: Scientific - peer-review › Conference contribution

Visualizing informal learning behavior from conference participants' Twitter data with the Ostinato Model
Research output: Scientific - peer-review › Article

Design-inclusive UX research: design as a part of doing user experience research
Research output: Scientific - peer-review › Article

Interactive Visualization Tools to Improve Learning and Teaching in Online Learning Environments
Research output: Scientific - peer-review › Article

Pointing and Selecting with Facial Activity
Tuisku, O., Rantanen, V., Spakov, O., Surakka, V. & Lekkala, J. Jan 2016 In : Interacting with Computers. 28, 1, p. 1-12
Research output: Scientific - peer-review › Article

A Case Study on Participatory Approach to Support Shift to Experience Design of Work Tools in B2B Context
Research output: Scientific - peer-review › Conference contribution
Binaural rendering of microphone array captures based on source separation
Research output: Scientific - peer-review › Article

Design and application of a fish-shaped lateral line probe for flow measurement
Research output: Scientific - peer-review › Article

Digital storytelling promoting twenty-first century skills and student engagement
Niemi, H. & Multisilta, J. 2016 In : Technology, Pedagogy and Education. 25, 4, p. 451-468
Research output: Scientific - peer-review › Article

Dominant Rotated Local Binary Patterns (DRLBP) for texture classification
Research output: Scientific - peer-review › Article

Embedded Linux Controlled Sensor Network
Research output: Scientific - peer-review › Conference contribution

Enabling Centralised Management of Local Sensor Data Refinement in Machine Fleets
Research output: Scientific - peer-review › Conference contribution

Estimation of kinetic parameters of transcription from temporal single-RNA measurements
Research output: Scientific - peer-review › Article

Exploring ScrumBut—An empirical study of Scrum anti-patterns
Research output: Scientific - peer-review › Article

How to Evaluate the Social Effects and User Experience of Systems Enhancing Collocated Interactions?
Research output: Professional › Conference contribution

Increased cytoplasm viscosity hampers aggregate polar segregation in Escherichia coli
Research output: Scientific - peer-review › Article

Instrumentation-Driven Validation of Dataflow Applications
Research output: Scientific - peer-review › Article

#JeSuisCharlie: Towards a Multi-Method Study of Hybrid Media Events
Research output: Scientific - peer-review › Article
Joint Estimation of Bulk Flow Velocity and Angle Using a Lateral Line Probe
Research output: Scientific - peer-review › Article

Liikekompensaatio- ja autofokusmenetelmät SAR- ja ISAR-tutkien signaalin käsittelyssä
Vehmas, R. 2016 Ylöjärvi: Puolustusvoimien Tutkimuslaitos. 112 p. (Puolustusvoimien tutkimuslaitoksen julkaisuja)
Research output: Professional › Book

Mobile Interactions Augmented by Wearable Computing: a Design Space and Vision
Research output: Scientific - peer-review › Article

Modeling probability densities with sums of exponentials via polynomial approximation
Research output: Scientific - peer-review › Article

Morphological Differentiation Towards Neuronal Phenotype of SH-SY5Y Neuroblastoma Cells by Estradiol, Retinoic Acid and Cholesterol
Research output: Scientific - peer-review › Article

Private cloud deployment model in open-source mobile robots ecosystem
Research output: Scientific - peer-review › Conference contribution

Robustness analysis of a hybrid of recursive neural dynamics for online matrix inversion
Research output: Scientific - peer-review › Article

Situation Awareness Framework for Multi-machine Environments: An Application to Operator Assistive Collision Warning System
Research output: Scientific - peer-review › Article

Social media -based value creation and business models
Research output: Scientific - peer-review › Review Article

Software Developers as Users: Developer Experience of a Cross-Platform Integrated Development Environment
Research output: Scientific - peer-review › Conference contribution

Still image/video frame lossy compression providing a desired visual quality
Research output: Scientific - peer-review › Article
Research output: Scientific - peer-review › Article

Towards Agile Enterprise Data Warehousing
Research output: Scientific - peer-review › Conference contribution

Urinary thrombomodulin levels were significantly higher following occupational exposure to chemicals, in the presence of dipstick protein, but not in the presence of dipstick blood
Research output: Scientific - peer-review › Article

Uusilla työvälineillä somen suomenkieliset tunnesisällöt analyysiin ja hyötykäyttöön
Research output: Professional › Article

Visualizing co-authorship networks for actionable insights: action design research experiment
Research output: Scientific - peer-review › Conference contribution

Using multi-step proposal distribution for improved MCMC convergence in Bayesian network structure learning
Larjo, A. & Lähdesmäki, H. 27 Dec 2015 In : Eurasip Journal on Bioinformatics and Systems Biology. 2015, 1, 6
Research output: Scientific - peer-review › Article

Context Awareness for Navigation Applications
Research output: Collection of articles › Doctoral Thesis

Dual-Mode Congestion Control Mechanism for Video Service
Research output: Scientific - peer-review › Conference contribution

Management of distributed knowledge encapsulated in embedded devices
Research output: Scientific - peer-review › Article

Generative part-based Gabor object detector
Research output: Scientific - peer-review › Article

A State Space Tool for Concurrent System Models Expressed In C++
Research output: Scientific - peer-review › Conference contribution
Lossy-to-lossless progressive coding of depth-map images using competing constant and planar models
Research output: Scientific - peer-review › Conference contribution

Priority Queue Classes with Priority Update
Research output: Scientific - peer-review › Conference contribution

Rapid Customization of Image Processors Using Halide
Research output: Scientific - peer-review › Conference contribution

Real-Time Vehicle Recognition and Improved Traffic Congestion Resolution
Research output: Scientific - peer-review › Conference contribution

Tree-structured algorithm for efficient shearlet-domain light field reconstruction
Research output: Scientific - peer-review › Conference contribution

Editorial: is Game-Based Math Learning Finally Coming of Age?
Kiili, K., Devlin, K. & Multisilta, J. 8 Dec 2015 In : International Journal of Serious Games. 2, 4, 4 p., 1
Research output: Scientific › Editorial

Improving Code Density with Variable Length Encoding Aware Instruction Scheduling
Research output: Scientific - peer-review › Article

Integer Linear Programming-Based Scheduling for Transport Triggered Architectures
Research output: Scientific - peer-review › Article

Large-Scale Water Simulation in Games
Kellomäki, T. 4 Dec 2015 Tampere University of Technology. 91 p. (Tampere University of Technology. Publication; vol. 1354)
Research output: Collection of articles › Doctoral Thesis

A comparison of feature detectors and descriptors for object class matching
Hietanen, A., Lankinen, J., Kämäräinen, J-K., Buch, A. G. & Krüger, N. 2 Dec 2015 In : Neurocomputing. 184, p. 3-12
Research output: Scientific - peer-review › Article

Binomial Gaussian mixture filter
Research output: Scientific - peer-review › Article

Perceptually adaptive filtering for stereoscopic video compression
Range-Doppler surface: A tool to analyse human target in ultra-wideband radar
Research output: Scientific › peer-review › Article

Behavioral Informatics and Computational Modeling in Support of Proactive Health Management and Care
Research output: Scientific › peer-review › Article

Istujat liikkumaan!
Ahtinen, A. Dec 2015 In : Tampereen Kauppakamarilehti. 6, p. 8 1 p.
Research output: General public › Comment/debate

Survey and evaluation of neural computation models for bio-integrated systems
Research output: Scientific › peer-review › Review Article

Algebraic and Combinatorial Methods for Error-Correcting Codes with Applications to Fault-Tolerant Logic
Astola, H. 27 Nov 2015 Tampere University of Technology. 130 p. (Tampere University of Technology. Publication; vol. 1336)
Research output: Monograph › Doctoral Thesis

Effects of Intracellular and Partitioning Asymmetries in Escherichia coli
Gupta, A. 27 Nov 2015 Tampere University of Technology. 62 p. (Tampere University of Technology. Publication; vol. 1335)
Research output: Collection of articles › Doctoral Thesis

Technology Trees and Tools: Constructing Development Graphs for Digital Games
Heinimäki, T. J. 27 Nov 2015 Tampere University of Technology. 100 p. (Tampere University of Technology. Publication; vol. 1349)
Research output: Collection of articles › Doctoral Thesis

Analysis of high-dimensional phase space via Poincaré section for patient-specific seizure detection
Research output: Scientific › peer-review › Article

SimpleTree: An Efficient Open Source Tool to Build Tree Models from TLS Clouds
Research output: Scientific › peer-review › Article

MYSTERY SHOPPERS RECOGNISING KNOWLEDGE SHARING BARRIERS IN HIGHER EDUCATION
Research output: Scientific › peer-review › Conference contribution

University Students' Perceptions of Academic Writing: An Academic Literacies Perspective
Research output: Scientific › peer-review › Conference contribution
"Free" Innovation Environments: Lessons learned from the Software Factory Initiatives
Research output: Scientific - peer-review › Conference contribution

Integrating UX Work in Agile Enterprise Software Development
Kuusinen, K. 6 Nov 2015 Tampere University of Technology. 296 p. (Tampere University of Technology. Publication; vol. 1339)
Research output: Collection of articles › Doctoral Thesis

Electromagnetic 3D subsurface imaging with source sparsity for a synthetic object
Pursiainen, S. & Kaasalainen, M. 4 Nov 2015 In: Inverse Problems. 31, 12, 17 p., 125004
Research output: Scientific - peer-review › Article

MergeTree: a HLBVH Constructor for Mobile Systems
Research output: Scientific - peer-review › Conference contribution

Coupled dictionaries for exemplar-based speech enhancement and automatic speech recognition
Research output: Scientific - peer-review › Article

Sparse extreme learning machine classifier exploiting intrinsic graphs
Research output: Scientific - peer-review › Article

A managerial view of the knowledge flows of a health-care system
Research output: Scientific - peer-review › Article

Model selection for linear classifiers using Bayesian error estimation
Research output: Scientific - peer-review › Article

Refactoring - a Shot in the Dark?
Research output: Scientific - peer-review › Article

CytoSpectre: A tool for spectral analysis of oriented structures on cellular and subcellular levels
Research output: Scientific - peer-review › Article

Changes in global gene expression of Vibrio parahaemolyticus induced by cold- and heat-stress
Research output: Scientific - peer-review › Article

A General Definition of the O-notation for Algorithm Analysis
Research output: Scientific - peer-review › Article
An estimation method of the kinetic rates of transcription initiation by Eσ70 and Eσ38 from measurements of individual RNA productions
Research output: Scientific - peer-review » Article

The Next Level of User Experience of Cloud Storage Services: Supporting Collaboration with Social Features
Research output: Scientific - peer-review » Conference contribution

VLT/SPHERE- and ALMA-based shape reconstruction of asteroid (3) Juno
Research output: Scientific - peer-review » Article

Augmenting Technology Trees: Automation and Tool Support
Research output: Scientific - peer-review » Conference contribution

Unified Model for Software Engineering Data
Research output: Scientific - peer-review » Conference contribution

Sleep stage classification using sparse rational decomposition of single channel EEG records
Research output: Scientific - peer-review » Conference contribution

The Class of Generalized Hampel Filters
Research output: Scientific - peer-review » Conference contribution

Improving reliability for classification of metallic objects using a WTMD portal
Research output: Scientific - peer-review » Article

Overcoming challenges in agile user experience work: Cross-case analysis of two large software organizations
Research output: Scientific - peer-review » Conference contribution

Surveys of daily information security of citizens in Finland
Research output: Scientific - peer-review » Conference contribution

The Role of Customer Experience in Value Creation in Business-to-Business Context
Research output: Professional » Conference contribution
Construction of therapeutically relevant human prostate epithelial fate map by utilising miRNA and mRNA microarray expression data
Research output: Scientific - peer-review › Article

Dynamics of Genetic Circuits with Molecule Partitioning Errors in Cell Division and RNA-RNA Interactions
Lloyd-Price, J. 7 Aug 2015 Tampere University of Technology. 62 p. (Tampere University of Technology. Publication; vol. 1310)
Research output: Collection of articles › Doctoral Thesis

Collaborative filtering based on group coordinates for smoothing and directional sharpening
Research output: Scientific - peer-review › Conference contribution

Exemplar-based speech enhancement for deep neural network based automatic speech recognition
Research output: Scientific - peer-review › Conference contribution

Image interpolation based on non-local geometric similarities
Research output: Scientific - peer-review › Conference contribution

Low-complexity robust DOA estimation
Research output: Scientific - peer-review › Conference contribution

Low-Latency Sound-Source-Separation using Non-Negative Matrix Factorisation with Coupled Analysis and Synthesis Dictionaries
Research output: Scientific - peer-review › Conference contribution

Similarity induced group sparsity for non-negative matrix factorisation
Research output: Scientific - peer-review › Conference contribution

Adaptive cyclic and randomized coordinate descent for the sparse total least squares problem
Research output: Scientific - peer-review › Conference contribution

Adaptive Randomized Coordinate Descent for Sparse Systems: Lasso and Greedy Algorithms
Research output: Scientific - peer-review › Article

Analysing traffic fluency from bus data
Research output: Scientific - peer-review › Article
Automatic image-based detection and inspection of paper fibres for grasping
Research output: Scientific - peer-review › Article

Convolutional Neural Networks for patient-specific ECG classification
Research output: Scientific - peer-review › Conference contribution

Mapping dynamical states to structural classes for Boolean networks using a classification algorithm
Research output: Scientific - peer-review › Conference contribution

Single image super-resolution via BM3D sparse coding
Research output: Scientific - peer-review › Conference contribution

Towards visual words to words
Research output: Scientific - peer-review › Conference contribution

Affective Audio Synthesis for Sound Experience Enhancement
Research output: Scientific - peer-review › Chapter

Automatic recognition of environmental sound events using all-pole group delay features
Research output: Scientific - peer-review › Conference contribution

Context-aware knowledge-based middleware for selective information delivery in data-intensive monitoring systems
Research output: Scientific - peer-review › Article

Knowledge Management operationalization – how it differs in large enterprises and SMEs in Finland
Research output: Professional › Conference contribution

Multi-Label vs. Combined Single-label Sound Event Detection with Deep Neural Networks
Research output: Scientific - peer-review › Conference contribution

Understanding the most influential user experiences in successful and unsuccessful technology adoptions
Research output: Scientific - peer-review › Article
Railway fastener inspection by real-time machine vision
Research output: Scientific - peer-review › Article

Representation of manufacturing equipment and services for OKD-MES: From service descriptions to ontology
Research output: Scientific - peer-review › Conference contribution

Self-contained slices in H.264 for partial video decoding targeting 3D light-field displays
Research output: Scientific - peer-review › Conference contribution

Single-cell kinetics of a repressilator when implemented in a single-copy plasmid
Research output: Scientific - peer-review › Article

Speed-optimized free-viewpoint rendering based on depth layering
Research output: Scientific - peer-review › Conference contribution

Towards processing and reasoning streams of events in knowledge-driven manufacturing execution systems
Research output: Scientific - peer-review › Conference contribution

Accessible Games for Blind Children, Empowered by Binaural Sound
Research output: Scientific - peer-review › Conference contribution

Data Intensive Computing: From Modeling to Implementation
Research output: Scientific › Editorial

Lossy-to-lossless progressive coding of depth-maps
Research output: Scientific - peer-review › Conference contribution

On the Design of Hopfield Neural Networks: Synthesis of Hopfield Type Associative Memories
Research output: Scientific - peer-review › Conference contribution

Parametrizations of planar models for region-merging based lossy depth-map compression
Research output: Scientific - peer-review › Conference contribution
Polyphonic Sound Event Detection Using Multi Label Deep Neural Networks
Cakir, E., Heittola, T., Huttunen, H. & Virtanen, T. Jul 2015 2015 International Joint Conference on Neural Networks (IJCNN). IEEE
Research output: Scientific - peer-review » Conference contribution

AvarTomography: A compact module for positron emission mammography
Research output: Scientific - peer-review » Conference contribution

Collaborative cloud-based management of home networks
Research output: Scientific - peer-review » Conference contribution

E-learning of ethics, awareness, hacking and research by information security majors
Research output: Scientific - peer-review » Conference contribution

Novel pairwise coupled kinematic solution for algebraic angular acceleration estimation of serial link manipulators
Research output: Scientific - peer-review » Conference contribution

Blind estimation of speckle variance in synthetic aperture radar images
Abramova, V. V., Kozhemiakin, R., Abramov, S. K., Lukin, V. V., Zelensky, A. A. & Egiazarian, K. 25 Jun 2015 2015 International Conference on Antenna Theory and Techniques: Dedicated to 95 Year Jubilee of Prof. Yakov S. Shifrin, ICATT 2015 - Proceedings. The Institute of Electrical and Electronics Engineers, Inc.
Research output: Scientific - peer-review » Conference contribution

Stop It, and Be Stubborn!
Research output: Scientific - peer-review » Conference contribution

Graph distance measures based on topological indices revisited
Research output: Scientific - peer-review » Article

The effects of neuron morphology on graph theoretic measures of network connectivity: The analysis of a two-level statistical model
Acimovic, J., Mäki-Marttunen, T. & Linne, M-L. 10 Jun 2015 In : Frontiers in Neuroanatomy. 9, June, 76
Research output: Scientific - peer-review » Article

Computer Vision for Head Pose Estimation: Review of a Competition
Research output: Scientific - peer-review » Conference contribution

Long-term epileptic EEG classification via 2D mapping and textural features
Experiments of the sonification of the sleep electroencephalogram
Research output: Scientific - peer-review » Article

Techniques and Practices for Software Architecture Work in Agile Software Development
Eloranta, V-P. 8 May 2015 Tampere University of Technology. 153 p. (Tampere University of Technology. Publication; vol. 1293)
Research output: Collection of articles » Doctoral Thesis

Microarray analysis of differentially expressed genes in ovarian and fallopian tube epithelium from risk-reducing salpingo-oophorectomies
Research output: Scientific - peer-review » Article

Standardized evaluation of algorithms for computer-aided diagnosis of dementia based on structural MRI: The CADDementia challenge
Research output: Scientific - peer-review » Article

Understanding business ecosystem dynamics: A data-driven approach
Research output: Scientific - peer-review » Article

Interferometric Phase Image Estimation via Sparse Coding in the Complex Domain
Research output: Scientific - peer-review » Article

Towards Open Data for Personal Web Tasking
Research output: Scientific - peer-review » Conference contribution

IGFBP2 potentiates nuclear EGFR-STAT3 signaling
Research output: Scientific - peer-review » Article

’miSimBa’ - A simulator of synthetic time-lapsed microscopy images of bacterial cells
Research output: Scientific - peer-review » Conference contribution

SmartWoW – constructing a tool for knowledge work performance analysis
Research output: Scientific - peer-review » Article
Cancer research in the era of next-generation sequencing and big data calls for intelligent modeling
Research output: Scientific - peer-review › Article

Calibration method for improving the autofocus speed in digital cameras
Pertuz, S., Puig, D. & Garcia, M. A. 9 Apr 2015 WO2015007927A1
Research output: Scientific › Patent

A Bayesian approach for suppression of limited angular sampling artifacts in single particle 3D reconstruction
Research output: Scientific - peer-review › Article

Sparse logistic regression and polynomial modelling for detection of artificial drainage networks
Research output: Scientific - peer-review › Article

ADAM: A general method for using various data types in asteroid reconstruction
Viikinkoski, M., Kaasalainen, M. & Durech, J. 1 Apr 2015 In : Astronomy and Astrophysics. 576, 11 p., A8
Research output: Scientific - peer-review › Article

Image Processing: Algorithms and Systems XIII
Research output: Scientific - peer-review › Anthology

Computational Methods for Modelling and Analysing Biological Networks
Larjo, A. 27 Mar 2015 Tampere University of Technology. 62 p. (Tampere University of Technology. Publication; vol. 1289)
Research output: Collection of articles › Doctoral Thesis

'They do not get along without us and we do not get along without them...': Uncertainty in information system development
Research output: Scientific - peer-review › Conference contribution

Sharpening the linear programming bound for linear Lee codes
Research output: Scientific - peer-review › Article

Genomically amplified Akt3 activates DNA repair pathway and promotes glioma progression
Research output: Scientific - peer-review › Article

From the Internet of Things to the Internet of People
Research output: Scientific - peer-review › Article

The highways and country roads to continuous deployment
Research output: Scientific - peer-review › Article
Yhteiselle tiedolle on tarvetta työpaikoilla
Research output: General public › Article

Improved weighted prediction based color gamut scalability in SHVC
Research output: Scientific - peer-review › Conference contribution

An Energy-efficient Live Video Coding and Communication over Unreliable Channels
Belyaev, E. 20 Feb 2015 Tampere University of Technology. 61 p. (Tampere University of Technology. Publication; vol. 1283)
Research output: Collection of articles › Doctoral Thesis

Riding for a fall in outsourced ISD: Transferring knowledge between onshore vendor and offshored unit
Research output: Professional › Conference contribution

Adaptive spatial resolution selection for stereoscopic video compression with MV-HEVC: A frequency based approach
Research output: Scientific - peer-review › Conference contribution

Asymmetrical luminance based filtering for stereoscopic video compression
Research output: Scientific - peer-review › Conference contribution

Salient event detection in basketball mobile videos
Research output: Scientific - peer-review › Conference contribution

Modeling and Experimental Characterization of Pressure Drop in Gravity-Driven Microfluidic Systems
Research output: Scientific - peer-review › Article

Antimicrobial activity and molecular analysis of azoderivatives of β-diketones
Research output: Scientific - peer-review › Article

Lossless compression of regions-of-interest from retinal images
Research output: Scientific - peer-review › Conference contribution

Object-based Modeling of Audio for Coding and Source Separation
Nikunen, J. 16 Jan 2015 Tampere University of Technology. 98 p. (Tampere University of Technology. Publication; vol. 1276)
Research output: Collection of articles › Doctoral Thesis
Acoustic context recognition for mobile devices using a reduced complexity SVM
Research output: Scientific - peer-review › Conference contribution

A Cross-Cultural and Gender-Based Perspective for Online Security: Exploring Knowledge, Skills and Attitudes of Higher Education Students.
Chaudhary, S., Zhao, Y., Berki, E., Valtanen, J., Li, L., Helenius, M. & Mystakidis, S. 2015 In : IADIS International Journal on WWW/Internet. 13, 1, p. 57-71
Research output: Scientific - peer-review › Article

A Design Framework Enhancing Developer Experience in Collaborative Coding Environment
Research output: Scientific - peer-review › Conference contribution

A Diary Study on Combining Multiple Information Devices in Everyday Activities and Tasks
Research output: Scientific - peer-review › Conference contribution

A method for predicting DCT-based denoising efficiency for grayscale images corrupted by AWGN and additive spatially correlated noise
Research output: Scientific - peer-review › Conference contribution

A model based analysis of the measurement errors in inductively coupled passive resonance sensors
Research output: Scientific - peer-review › Conference contribution

Analysis of dct spectrum statistics for image processing applications
Research output: Scientific - peer-review › Article

Analysis of HVS-metrics' properties using color image database TID2013
Research output: Scientific - peer-review › Conference contribution

Analysis on bus travel time through traffic light intersection
Research output: Professional › Conference contribution

Analytical model in discrete time for cross-layer video communication over LTE
Research output: Scientific - peer-review › Article
An efficient adaptive binary range coder and its VLSI architecture
Research output: Scientific - peer-review › Article

A new method for automatic marking epileptic spike-wave discharges in local field potential signals
Research output: Scientific - peer-review › Conference contribution

A New R-D Optimization Criterion for Fast Mode Decision Algorithms in Video Coding and Transrating
Research output: Scientific - peer-review › Article

Animal Welfare as a Design Goal in Technology Mediated Human-Animal Interaction
Research output: Scientific - peer-review › Conference contribution

An Initial Homophily Indicator to Reinforce Context-Aware Semantic Computing
Rivero-Rodriguez, A., Pileggi, P. & Nykänen, O. 2015 7th International Conference on Computational Intelligence, Communication Systems and Networks (CICSyN). Riga: IEEE, p. 89-93 5 p. (International Conference on Computational Intelligence, Communications and Networks)
Research output: Scientific - peer-review › Conference contribution

A Paradigm for Dynamic Adaptive Streaming over HTTP for Multi-view Video
Research output: Scientific - peer-review › Conference contribution

A perceptual quality metric for high-definition stereoscopic 3D video
Research output: Scientific - peer-review › Conference contribution

Applying finite state process algebra to formally specify a computational model of security requirements in the key2phone-mobile access solution
Chaudhary, S., Li, L., Berki, E., Helenius, M., Kela, J. & Turunen, M. 2015 Lecture Notes in Computer Science. Springer Verlag, p. 128-145 18 p. (Lecture Notes in Computer Science; vol. 9128)
Research output: Scientific - peer-review › Conference contribution

Approach for Investigating Crowdfunding Campaigns with Platform Data: Case Indiegogo
Research output: Scientific - peer-review › Conference contribution

Archetypal analysis for audio dictionary learning
Research output: Scientific - peer-review › Conference contribution

Architecture for Open, Knowledge-Driven Manufacturing Execution System
Assessment of social media skills among vocational teachers in Finland

Associating Event Logs with Ontologies for Semantic Process Mining and Analysis

Augmenting food with information

Automated Super-Voxel Based Features Classification of Urban Environments by Integrating 3D Point Cloud and Image Content

Automatic quantification of mitochondrial fragmentation from two-photon microscope images of mouse brain tissue

Benefits for supplier and customer with the help of logged usage data

Biological networks: the microscope of the twenty-first century?
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Characterizing Context of Use in Mobile Work

Characterizing the Context of Use in Mobile Work

CIP2A is a candidate therapeutic target in clinically challenging prostate cancer cell populations

Classification of moving ground radar objects by using bispectrumbased features
Class-specific nonlinear projections using class-specific kernel spaces
Research output: Scientific - peer-review › Conference contribution

Cloud Technologies for the Internet of Things: Defining a Research Agenda Beyond the Expected Topics
Research output: Scientific - peer-review › Conference contribution

Code Density and Energy Efficiency of Exposed Datapath Architectures
Research output: Scientific - peer-review › Article

Collaboration, distribution and culture - challenges for communication
Research output: Scientific - peer-review › Conference contribution

Collecting a citizen’s digital footprint for health data mining
Research output: Scientific - peer-review › Conference contribution

Comparison of Functional, Structural, and Dynamic Business-IT Alignment Models: A Case Study
Research output: Scientific - peer-review › Conference contribution

Compositional Models for Audio Processing: Uncovering the structure of sound mixtures
Research output: Scientific - peer-review › Article

Computational Network Theory: Theoretical Foundations and Applications
Research output: Scientific - peer-review › Anthology

Constrained Directed Graph Clustering and Segmentation Propagation for Multiple Foregrounds Cosegmentation
Research output: Scientific - peer-review › Article

Content Sharing Building Social User Experiences
Research output: Scientific - peer-review › Conference contribution

Contributions of Arto Salomaa to Multiple-Valued Logic
Research output: Scientific - peer-review › Article
Cross-Cultural Design of Mobile Mathematics Learning Service for South African Schools
Research output: Scientific - peer-review › Article

Cross-cultural issues in working with users in the design of interactive systems
Research output: Scientific - peer-review › Conference contribution

CueSense: a Wearable Proximity-Aware Display Enhancing Encounters
Research output: Scientific - peer-review › Conference contribution

Cultural influence on online community use: A cross-cultural study on online exercise diary users of three nationalities
Research output: Scientific - peer-review › Article

Culture-Aware Web Information System Development
Research output: Scientific - peer-review › Conference contribution

Data collector service - practical approach with embedded linux
Research output: Scientific - peer-review › Conference contribution

Data Correction for Seven Activity Trackers based on Regression Models
Research output: Scientific - peer-review › Conference contribution

Data driven ecosystem - Perspectives and problems
Research output: Scientific - peer-review › Conference contribution

Defining Metrics for Continuous Delivery and Deployment Pipeline
Research output: Scientific - peer-review › Conference contribution

Delayed key exchange for constrained smart devices
Research output: Scientific - peer-review › Conference contribution

Depth map occlusion filling and scene reconstruction using modified exemplar-based inpainting
Designing an Unobtrusive Analytics Framework for Monitoring Java Applications

Designing Mobile Devices Encouraging and Supporting Collocated Interactions

Design Patterns for Model-Driven Development

Detecting and tracking the tips of fluorescently labeled mitochondria in U2OS cells

Detection and Segmentation of Nucleoids Based on Gradient Path Labelling

Determining Minimized Galois Field Expressions for Ternary Functions by using Special Normal Form

Developing Novel Services for the Railway Station Area through Experience-Driven Design

Discrimination Power of Polynomial-Based Descriptors for Graphs by Using Functional Matrices

Do we know how difficult the rainfall problem is?

Early Product Design in Startups: Towards a UX Strategy
Exploratory analysis of associations between individual lifestyles and heart rate variability-based recovery during sleep
Research output: Scientific - peer-review › Conference contribution

Exploring Attitudes, Knowledge and Competencies for Security Technology: A Cross-Cultural Survey in Higher Education
Research output: Scientific - peer-review › Conference contribution

Extreme learning machine based supervised subspace learning
Research output: Scientific - peer-review › Article

Faster 128-EEA3 and 128-EIA3 Software
Research output: Scientific - peer-review › Conference contribution

Faster Software for Fast Endomorphisms
Research output: Scientific - peer-review › Conference contribution

Fixed-Pattern Noise Modeling and Removal in Time-of-Flight Sensing
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Research output: Scientific - peer-review › Article

Flow feature extraction for underwater robot localization: preliminary results
Research output: Scientific - peer-review › Conference contribution

From Apps to Liquid Multi-Device Software
Research output: Scientific - peer-review › Article

From Mobile to Wearable: Using Wearable Devices to Enrich Mobile Interaction
Research output: Scientific - peer-review › Conference contribution

Gender classification by LUT based boosting of overlapping block patterns
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Research output: Scientific - peer-review › Conference contribution

Getting started with the experience design process
Research output: Professional › Chapter
Interaction and humans in internet of things
Research output: Scientific - peer-review › Conference contribution

Internal Marketplace as a Mechanism for Promoting Software Reuse
Research output: Scientific - peer-review › Conference contribution

Jossakin vuoti öljy, muualla tihkuivat tiedot - etiikka katoavien rajojen ja suurten skandaalien aikakaudella
Lilja, K. 2015 Silmät auki It-etiikkaan. EDUSKUNNAN TULEVAISUUSVALIOKUNTA, p. 85-101 16 p. (Eduskunnan tulevaisuuusvaliokunnan julkaisu; no. 12)
Research output: Scientific - peer-review › Chapter

Knowledge Intensive Entrepreneurship Fostering Digital Society
Research output: Scientific - peer-review › Conference contribution

Knowledge security risk management in contemporary companies – toward a proactive approach
Research output: Scientific - peer-review › Conference contribution

Kvazaar HEVC encoder for Efficient Intra Coding
Research output: Scientific - peer-review › Conference contribution

Lean Startup Meets Software Product Lines: Survival of the Fittest or Letting Products Bloom?
Research output: Scientific - peer-review › Conference contribution

Learning Analytics Architecture to Scaffold Learning Experience through Technology-based Methods
Research output: Scientific - peer-review › Article

Lifelog scene change detection using cascades of audio and video detectors
Research output: Scientific - peer-review › Conference contribution

Lightweight Immaterial Particle Displays with Mid-Air Tactile Feedback
Research output: Scientific - peer-review › Conference contribution

Linear Congruential Sequences: Feedback and Recurrent Neural Networks
Research output: Scientific - peer-review › Conference contribution

Localization of Storyboards for Cross-cultural User Studies
Research output: Scientific - peer-review › Conference contribution

Machine learning for adaptive bilateral filtering
Research output: Scientific - peer-review › Conference contribution

Managing software engineering competences with domain ontology for customer and team profiling and training
Research output: Scientific - peer-review › Conference contribution

Motion Model for Positioning with Graph-Based Indoor Map
Research output: Scientific - peer-review › Conference contribution

M-PCA Binary Embedding For Approximate Nearest Neighbor Search
Research output: Scientific - peer-review › Conference contribution

Myostatin/ activin blocking combined with exercise reconditions skeletal muscle expression profile of mdx mice
Research output: Scientific - peer-review › Article

"New Ways of Working" as a tool for improving the performance of a knowledge-intensive company
Research output: Scientific - peer-review › Article

Noise Robust Speaker Recognition with Convolutional Sparse Coding
Research output: Scientific - peer-review › Conference contribution

Nonlinear Digital Filtering with Python: An Introduction
Research output: Scientific - peer-review › Book

Non-local sigma filter
Research output: Scientific - peer-review › Conference contribution

Non-negative tensor factorization models for Bayesian audio processing
Outlier detection in weight time series of connected scales.
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Paradoxes in the development of a business critical information system
Research output: Professional › Conference contribution

Paradoxes of change management in information system development
Research output: Scientific - peer-review › Conference contribution

Parameters affecting the energy performance of the transport sector in smart cities
Research output: Scientific - peer-review › Conference contribution

Parralelization of non-linear & non-Gaussian Bayesian state estimators (Particle filters)
Research output: Scientific - peer-review › Conference contribution

Pattern recognition with Spiking Neural Networks: a simple training method
Research output: Scientific - peer-review › Conference contribution

Patterns for Distributed Machine Control Systems
Research output: Scientific - peer-review › Conference contribution

Perceived Impacts as User Experience Components in Mobile News Making with Smartphones
Research output: Scientific - peer-review › Chapter

Perfect Pavelka Logic
Research output: Scientific - peer-review › Article

Performance management practices in construction business - a service recovery perspective
Research output: Scientific › Conference contribution

Phishing knowledge based user modelling in software design
Research output: Scientific - peer-review › Conference contribution
Pluggable Systems as Architectural Pattern: An Ecosystemability Perspective
Research output: Scientific - peer-review › Conference contribution

pocl: A Performance-Portable OpenCL Implementation
Research output: Scientific - peer-review › Article

Preserving natural scene lighting by strobe-lit video
Research output: Scientific - peer-review › Conference contribution

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Research output: Scientific - peer-review › Anthology

Progressive Visual Object Detection with Positive Training Examples Only
Research output: Scientific - peer-review › Conference contribution

Project- and product-oriented course
Research output: Scientific - peer-review › Conference contribution

Quality measures for improving technology trees
Research output: Scientific - peer-review › Article

Real-time depth image-based rendering with layered dis-occlusion compensation and aliasing-free composition
Research output: Scientific - peer-review › Conference contribution

Recurrent SKIL-activating rearrangements in ETS-negative prostate cancer
Research output: Scientific - peer-review › Article

Relational Capital for Shared Vision in Innovation Ecosystems
Research output: Scientific - peer-review › Article

Requirements, Architecture, and Quality in a Mission-Critical System: 12 Lessons Learned
Riding for a fall in outsourced ISD: Knowledge transfer challenges between the onshore vendor and the offshored unit

Robust Regulation Theory for Transfer Functions With a Coprime Factorization

Rolling Out a Mission Critical System in an Agilish Way: Reflections on Building a Large-Scale Dependable Information System for Public Sector

Semantic-Driven CEP for Delivery of Information Streams in Data-Intensive Monitoring Systems

Service Architecture and Interface Design for Mobile Machine Parameter Optimization System

ShakeMe: Key Generation From Shared Motion

Smartphones as Personal Profile Providers: Enhancing Mobile App Architectures

Social Approach for Context Analysis: Modelling and Predicting Social Network Evolution using Homophily

Social Displays on Mobile Devices: Increasing Collocated People’s Awareness of the User’s Activities

Sound event detection in real life recordings using coupled matrix factorization of spectral representations and class activity annotations
Sparse approximations of phase and amplitude for wave field reconstruction from noisy data

Research output: Scientific - peer-review › Conference contribution

Speaker verification using adaptive dictionaries in non-negative spectrogram deconvolution

Research output: Scientific - peer-review › Conference contribution

Spicing Up Open Source Development with a Touch of Crowdsourcing

Research output: Scientific - peer-review › Conference contribution

Subjective evaluation of Super Multi-View compressed contents on high-end light-field 3D displays

Research output: Scientific - peer-review › Article

Supplier's Expectations on Usage Data Analytics of Complex Industrial Systems

Research output: Scientific - peer-review › Conference contribution

Synchrony between Genetic Repressilators in Sister Cells in Different Temperatures

Research output: Scientific - peer-review › Conference contribution

Teaching Distributed Agile Development to Software Professionals: A Flexible Approach

Research output: Scientific - peer-review › Conference contribution

Techniques for Genetic Software Architecture Design

Research output: Scientific - peer-review › Article

Technologies for databases change management

Research output: Scientific - peer-review › Conference contribution

Teollista Internetiä työkoneissa – palveluarkkitehtuuri suorituskyvyn optimointiin
Towards Deeper Understanding of User Experience with Ubiquitous Computing Systems: Systematic Literature Review and Design Framework
Research output: Scientific - peer-review › Conference contribution

Towards liquid web applications
Research output: Scientific - peer-review › Conference contribution

Towards Post-Agile Development Practices Through Productized Development Infrastructure
Research output: Scientific - peer-review › Conference contribution

Towards Traditional Simulation Models of Context Using Process Mining
Research output: Scientific - peer-review › Conference contribution

Training based cell detection from bright-field microscope images
Research output: Scientific - peer-review › Conference contribution

Transcription closed and open complex dynamics studies reveal balance between genetic determinants and co-factors
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Research output: Scientific - peer-review › Article

Tuottavuusloikka sosiaalisen median avulla
Research output: Scientific - peer-review › Conference contribution

Tvittien politiikka – poliittisen viestinnän sisäpiirit Twitterissä
Research output: Scientific › Article

Twist predicts poor outcome of patients with astrocytic glioma
Research output: Scientific - peer-review › Article

Two mature products of MIR-491 coordinate to suppress key cancer hallmarks in glioblastoma
Research output: Scientific - peer-review › Article

Typical and atypical domain combinations in human protein kinases: functions, disease causing mutations and conservation in other primates
Unsupervised Visual Alignment with Similarity Graphs
Research output: Scientific - peer-review › Conference contribution

User experience and usability in complex systems 2010-2015: Final report 1/2015
Research output: Professional › Commissioned report

User experience goals as a guiding light in design and development – Early findings
Research output: Scientific - peer-review › Conference contribution

User Experience of Digital News: Two Semi-long Term Field Studies
Research output: Scientific - peer-review › Conference contribution

User Experience of Mobile Proximity-Based Applications for Playful Social Interaction
Research output: Scientific - peer-review › Conference contribution

Using context overlays to analyse the role of a priori information with Process Mining
Research output: Scientific - peer-review › Conference contribution

Using video games to combine learning and assessment in mathematics education
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Research output: Scientific - peer-review › Article

UX sensors - Understanding the UX of complex systems through usage analysis
Research output: Professional › Chapter

UX work in startups: Current practices and future needs
Research output: Scientific - peer-review › Conference contribution

Vibrotactile Stimulation as an Instructor for Mimicry-Based Physical Exercise
Research output: Scientific - peer-review › Article

View upsampling optimization for mixed resolution 3D video coding
Visual Saliency by Extended Quantum Cuts
Research output: Scientific - peer-review › Conference contribution

W2E - Wellness Warehouse Engine for Semantic Interoperability of Consumer Health Data
Research output: Scientific - peer-review › Article

Ways to Cross the Rubicon: Pivoting in Software Startups
Research output: Scientific - peer-review › Conference contribution

Ways to measure spatial presence: Review and future directions
Research output: Scientific - peer-review › Chapter

WHIRLBOB, the Whirlpool Based Variant of STRIBOB
Research output: Scientific - peer-review › Conference contribution

An investigation of nuclear properties of even-even natural Mo92-100 isotopes
Research output: Scientific - peer-review › Article

Maximizing Product Value: Continuous Maintenance
Research output: Scientific - peer-review › Conference contribution

Guard-based Partial Order Reduction
Research output: Scientific - peer-review › Article

GPU parallel implementation of the approximate K-SVD algorithm using OpenCL
Research output: Scientific - peer-review › Conference contribution

The fuzzy front end of experience design
Research output: Scientific - peer-review › Conference contribution
Compensation of Missing Wedge Effects with Sequential Statistical Reconstruction in Electron Tomography
Research output: Scientific - peer-review › Article

Swarm Lake: A Game of Swarm Intelligence, Human Interaction and Collaborative Music Composition
Research output: Scientific - peer-review › Conference contribution

Capacitive Facial Activity Measurement
Rantanen, V. 26 Sep 2014 Tampere: Tampere University of Technology. 50 p. (Tampere University of Technology. Publication; no. 1235)
Research output: Collection of articles › Doctoral Thesis

Adaptive sampling for compressed sensing based image compression
Research output: Scientific - peer-review › Conference contribution