

Necessary and sufficient conditions for the existence of solution of generalized fuzzy relation equations  $A \Leftrightarrow X = B$

Tree species classification using structural features derived from terrestrial laser scanning

Soft robotic gripper with compliant cell stacks for industrial part handling

Measurements of Mobile Blockchain Execution Impact on Smartphone Battery

On the zeros of the partial Hosoya polynomial of graphs

Wake-up Radio-Based 5G Mobile Access  
Methods, Benefits, and Challenges

Characterizing Resource Allocation Trade-Offs in 5G NR Serving Multicast and Unicast Traffic

TinderMIX  
Time-dose integrated modelling of toxicogenomics data

Utilizing Neurons for Digital Logic Circuits  
A Molecular Communications Analysis

Anthropometric clothing measurements from 3D body scans

Data augmentation approaches for improving animal audio classification

Correlates of social media fatigue and academic performance decrement  
A large cross-sectional study

Lage und Zukunft des wissenschaftlichen Nachwuchses  
Eine Stellungnahme des Beirats des Wissenschaftlichen Nachwuchses (WiN) der Gesellschaft für Informatik (GI e.V.)

In-flight wind field identification and prediction of parafoil systems

Game-theoretic semantics for  $ATL^+$  with applications to model checking

Modified Wilkinson power divider with harmonics suppression and compact size for GSM applications

Who contributes what? Scrutinizing the activity data of 4.2 million Zhihu users via immersion scores

Social media overload, exhaustion, and use discontinuance  
Examining the effects of information overload, system feature overload, and social overload

Microflow-Based Device for In Vitro and Ex Vivo Drug Permeability Studies

Development of measurement instrument for visual qualities of graphical user interface elements (VISQUAL)  
a test in the context of mobile game icons

On the diffuseness of technical debt items and accuracy of remediation time when using SonarQube

Adjoint-based optimization in the development of low-emission industrial boilers

Hysteresis and eddy-current losses in electrical steel utilising edge degradation due to cutting effects

FinnForest dataset

A forest landscape for visual SLAM

Probabilistic approach to physical object disentangling

Multi-sensor next-best-view planning as matroid-constrained submodular maximization

UAV-Aided Interference Assessment for Private 5G NR Deployments

Challenges and Solutions

Empowering Heterogeneous Communication Data Links in General Aviation through mmWave Signals

Motivating scholars' responses in academic social networking sites

An empirical study on ResearchGate Q&A behavior

Deliberate or Instinctive? Proactive and Reactive Coping for Technostress

DevOps in practice

A multiple case study of five companies

Automatic word count estimation from daylong child-centered recordings in various language environments using language-independent syllabification of speech

Hermitian normalized Laplacian matrix for directed networks

Internet of Autonomous Vehicles

Architecture, Features, and Socio-Technological Challenges

High-performance SIMD implementation of the lattice-Boltzmann method on the Xeon Phi processor

Energy Efficiency of Multi-Radio Massive Machine-Type Communication (MR-MMTC)

Applications, Challenges, and Solutions

Socially inspired relaying and proactive mode selection in mmWave vehicular communications

Future of Ultra-Dense Networks Beyond 5G

Harnessing Heterogeneous Moving Cells

Approximate robust output regulation of boundary control systems

On Unified Vehicular Communications and Radar Sensing in Millimeter-Wave and Low Terahertz Bands

Dense Moving Fog for Intelligent IoT  
Key Challenges and Opportunities

Effects of percutaneous transluminal angioplasty of superficial femoral artery on photoplethysmographic pulse transit times

On the complexity of restoring corrupted colorings

Energy-efficient and high-precision control of hydraulic robots

Employing Knowledge on Causal Relationship to Assist Multidisciplinary Design Optimization

Layered approach for improving the quality of free-viewpoint depth-image-based rendering images

Iterative unsupervised domain adaptation for generalized cell detection from brightfield z-stacks

Challenges and recommended practices for software architecting in global software development

Towards detecting structural branching and cyclicity in graphs  
A polynomial-based approach

Performance evaluation of bandwidth reservation for mmWave 5G NR systems

Uses and Gratifications of Pokémon Go  
Why do People Play Mobile Location-Based Augmented Reality Games?

Customized dimensional analysis conceptual modelling framework for design optimization—a case study on the cross-flow micro turbine model

Measuring stem diameters with TLS in boreal forests by complementary fitting procedure

Modeling mass transfer in fracture flows with the time domain-random walk method

Quality and Capacity Analysis of Molecular Communications in Bacterial Synthetic Logic Circuits

DNA Molecular Storage System  
Transferring Digitally Encoded Information through Bacterial Nanonetworks

Positioning and Location-Aware Communications for Modern Railways with 5G New Radio

Environmental and social sustainability—emergence of well-being in the built environment, assessment tools and real estate market implications

Characterization of the anisotropic deformation of the right ventricle during open heart surgery

Emptiness problems for distributed automata

Experimental analysis on the turning of aluminum alloy 7075 based on Taguchi method and artificial neural network

5G-U: Conceptualizing Integrated Utilization of Licensed and Unlicensed Spectrum for Future IoT

SCIP

a single-cell image processor toolbox

A Portable Microscale Cell Culture System with Indirect Temperature Control

Organizing for openness

six models for developer involvement in hybrid OSS projects

Active scanner control on paper machines

Empirical Effects of Dynamic Human-Body Blockage in 60 GHz Communications

Benefits of Positioning-Aided Communication Technology in High-Frequency Industrial IoT

Chromatographic studies of n-Propyl Propionate

Adsorption equilibrium, modelling and uncertainties determination

Computation of Dynamic Polarizabilities and van der Waals Coefficients from Path-Integral Monte Carlo

Focus model for metric depth estimation in standard plenoptic cameras

Graph measures with high discrimination power revisited

A random polynomial approach

Breaking the limits in urban video monitoring

Massive crowd sourced surveillance over vehicles

Molecular Communications Pulse-based Jamming Model for Bacterial Biofilm Suppression

Comparative analysis of tissue reconstruction algorithms for 3D histology

Intellectual capital and bi-tools in private healthcare value creation

Nocturnal Heart Rate Variability Spectrum Characterization in Preschool Children with Asthmatic Symptoms

High surface quality welding of aluminum using adjustable ring-mode fiber laser

Summarization of User-Generated Sports Video by Using Deep Action Recognition Features

Wireless Communications for Optogenetics-Based Brain Stimulation

Present Technology and Future Challenges

Effect of surfactant type and sonication energy on the electrical conductivity properties of nanocellulose-CNT nanocomposite films

Last Meter Indoor Terahertz Wireless Access  
Performance Insights and Implementation Roadmap

Caching-Aided Collaborative D2D Operation for Predictive Data Dissemination in Industrial IoT

The effect of percutaneous transluminal angioplasty of superficial femoral artery on pulse wave features

Backshoring of production in the context of a small and open Nordic economy

Wirelessly powered urban crowd sensing over wearables  
Trading energy for data

Generic platform for manufacturing execution system functions in knowledge-driven manufacturing systems

Noise minimized high resolution digital holographic microscopy applied to surface topography

Technologies for Efficient Amateur Drone Detection in 5G Millimeter-Wave Cellular Infrastructure

Mixed-integer linear programming approach for global discrete sizing optimization of frame structures

Effect of paint baking treatment on the properties of press hardened boron steels

Robust Regulation of Infinite-Dimensional Port-Hamiltonian Systems

Reduced Order Internal Models in the Frequency Domain

A Primal Neural Network for Online Equality-Constrained Quadratic Programming

How to design gamification? A method for engineering gamified software

Gamification, quantified-self or social networking? Matching users' goals with motivational technology

System-level analysis of IEEE 802.11ah technology for unsaturated MTC traffic

Transmit Power Optimization and Feasibility Analysis of Self-backhauling Full-Duplex Radio Access Systems

On the degeneracy of the Randić entropy and related graph measures

Multisensor Time-Frequency Signal Processing MATLAB package  
An analysis tool for multichannel non-stationary data

Quantitative Graph Theory  
A new branch of graph theory and network science

How developers perceive smells in source code  
A replicated study

Fast Water Simulation Methods for Games

DoGlycans-Tools for Preparing Carbohydrate Structures for Atomistic Simulations of Glycoproteins, Glycolipids, and Carbohydrate Polymers for GROMACS

An ensemble of visual features for Gaussians of local descriptors and non-binary coding for texture descriptors

Highly unique network descriptors based on the roots of the permanent polynomial

Adaptive and nonlinear control of discharge pressure for variable displacement axial piston pumps

On the Performance of Visible Light Communication Systems with Non-Orthogonal Multiple Access

The Effect of Ultrasonic Dispersion on the Surface Chemistry of Carbon Nanotubes in the Jeffamine D-230 Polyetheramine Medium

Robust Output Regulation for Continuous-Time Periodic Systems

Energy Efficiency Maximization of Full-Duplex Two-Way Relay with Non-Ideal Power Amplifiers and Non-Negligible Circuit Power

Indirect  $\text{NO}_x$  emission monitoring in natural gas fired boilers

sgnesR

An R package for simulating gene expression data from an underlying real gene network structure considering delay parameters

A Proxy-Based Solution for Asynchronous Telemedical Systems

The Fisher-Snedecor F Distribution

A Simple and Accurate Composite Fading Model

CNN-based edge filtering for object proposals

A Mixed Finite Element Method to Solve the EEG Forward Problem

Neighborhood Matching for Image Retrieval

Interference and SINR in Millimeter Wave and Terahertz Communication Systems With Blocking and Directional Antennas

Effects of Heterogeneous Mobility on D2D-and Drone-Assisted Mission-Critical MTC in 5G

Benchmarking DFT methods with small basis sets for the calculation of halogen-bond strengths

GSAR

Bioconductor package for Gene Set analysis in R

Architectures and codecs for real-time light field streaming

Using enterprise architecture artefacts in an organisation

Urban 3D segmentation and modelling from street view images and LiDAR point clouds

Nanodevice Arrays for Peripheral Nerve Fascicle Activation Using Ultrasound Energy-harvesting

Method for Simulating Dose Reduction in Digital Breast Tomosynthesis

Time-Dependent Energy and Resource Management in Mobility-Aware D2D-Empowered 5G Systems

Advanced boundary electrode modeling for tES and parallel tES/EEG

Bayes Forest

A data-intensive generator of morphological tree clones

Dynamic response to process disturbances—A comparison between TMB/SMB models in transient regime

Visual decision support for business ecosystem analysis

Improving the delivery cycle

A multiple-case study of the toolchains in Finnish software intensive enterprises

SamExploreR

Exploring reproducibility and robustness of RNA-seq results based on SAM files

Development of an England-wide indoor overheating and air pollution model using artificial neural networks

Image interpolation based on non-local geometric similarities and directional gradients

Full-duplex mobile device

Pushing the limits

Toward trusted, social-aware D2D connectivity

Bridging across the technology and sociality realms

Exploring synergy between communications, caching, and computing in 5G-grade deployments

Robust data reconciliation of combustion variables in multi-fuel fired industrial boilers

Fifty years of graph matching, network alignment and network comparison

Visual Voice Activity Detection in the Wild

Linear accelerometers and rate gyros for rotary joint angle estimation of heavy-duty mobile manipulators using forward kinematic modeling

Characterizing rate limiting steps in transcription from RNA production times in live cells

A unifying perspective on proximity-based cellular-assisted mobile social networking

On feasibility of 5G-grade dedicated RF charging technology for wireless-powered wearables

Detection of bubbles as concentric circular arrangements

Digital predistortion for mitigating spurious emissions in spectrally agile radios

Highly dynamic spectrum management within licensed shared access regulatory framework

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

Graph Embedded Extreme Learning Machine

Still image/video frame lossy compression providing a desired visual quality

Digital storytelling promoting twenty-first century skills and student engagement

HTML5-based mobile agents for Web-of-Things

Brownfield Process  
A method for modular product family development aiming for product configuration

Metrics for polyphonic sound event detection

Technoeconomical Analysis of Macrocell and Femtocell Based HetNet under Different Deployment Constraints

Energy cooperation for throughput optimization based on save-then-transmit protocol in wireless communication system

Polynomial Input-Output Stability for Linear Systems

Analytical model for magnetic anisotropy of non-oriented steel sheets

Estimation of additional losses due to random contacts at the edges of stator of an electrical machine

DropELM  
Fast neural network regularization with Dropout and DropConnect

Distance-based human action recognition using optimized class representations

Stability-Guaranteed Force-Sensorless Contact Force/Motion Control of Heavy-Duty Hydraulic Manipulators



Effective variable switching point predictive current control for ac low-voltage drives

Railway fastener inspection by real-time machine vision

A robust AMMI model for the analysis of genotype-by-environment data

Planar monopole antennas on substrates fabricated through an additive manufacturing process

Long-term epileptic EEG classification via 2D mapping and textural features

Urothelial cancer gene regulatory networks inferred from large-scale RNAseq, Bead and Oligo gene expression data

Recent advances in antenna design and interference cancellation algorithms for in-band full duplex relays

Multistep reactions of water with small Pd<sub>n</sub> clusters  
A first principles study

The internet of Bio-Nano things

Designing controllers with reduced order internal models

Task-based information interaction evaluation  
The viewpoint of program theory

Communication challenges in high-density deployments of wearable wireless devices

Fault tolerant control architecture design for mobile manipulation in scientific facilities

Estimation of GFP-tagged RNA numbers from temporal fluorescence intensity data  
Julkaisun otsikon käännös: : Estimation of GFP-tagged RNA numbers from temporal fluorescence intensity data

Spectral and energy efficiency of ultra-dense networks under different deployment strategies

The assessment of constructability  
BIM cases

Distant speech separation using predicted time-frequency masks from spatial features

Extreme learning machine based supervised subspace learning

Busting myths of electronic word of mouth  
The relationship between customer ratings and the sales of mobile applications

Smart home gateway system over Bluetooth low energy with wireless energy transfer capability

Uncertainty propagation of iron loss from characterization measurements to computation of electrical machines

Organisational knowledge flows and structural change the case of dispersed education organizations

Class-Specific Reference Discriminant Analysis With Application in Human Behavior Analysis

Regularized extreme learning machine for multi-view semi-supervised action recognition

Comparative evaluation of gene set analysis approaches for RNA-Seq data

Understanding social OER environments-A quantitative study on factors influencing the motivation to share and collaborate

Density functional theory study of transition metals doped B<sub>80</sub> fullerene

Analysis of a city-region from the knowledge perspective  
Tampere, Finland

An enumeration-based model predictive control strategy for the cascaded H-bridge multilevel rectifier

NetBioV

An R package for visualizing large network data in biology and medicine

The emerging application ecosystems

An introductory analysis of android ecosystem

System integration for real-time mobile manipulation

A computational approach to construct a multivariate complete graph invariant

Gene Sets Net Correlations Analysis (GSNCA)

A multivariate differential coexpression test for gene sets

Functional and genetic analysis of the colon cancer network.

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

Transparency of intentions decreases privacy concerns in ubiquitous surveillance

Learning sparse representations for view-independent human action recognition based on fuzzy distances

Netmes

Assessing gene network inference algorithms by network-based measures

Social Network Games

Players' Perspectives

[COMMODE] a large-scale database of molecular descriptors using compounds from PubChem

Importance of the ion-pair interactions in the OPEP coarse-grained force field  
Parametrization and validation

Comparison of Saltation, Amplitude Modulation, and a Hybrid Method of Vibrotactile Stimulation

Transfer learning using a nonparametric sparse topic model

Transforming homo economicus into homo ludens  
A field experiment on gamification in a utilitarian peer-to-peer trading service

Indirect measurement of the vascular endothelial glycocalyx layer thickness in human submucosal capillaries with a plugin for ImageJ

Using building simulation to model the drying of flooded building archetypes

Magnetomechanical coupled FE simulations of rotating electrical machines  
Julkaisun otsikon käännös: : Magnetomechanical coupled FE simulations of rotating electrical machines

Multidimensional sequence classification based on fuzzy distances and discriminant analysis

On the optimal class representation in linear discriminant analysis

Preparation of water-based carbon nanotube inks and application in the inkjet printing of carbon nanotube gas sensors

Inkjet printing of radio frequency electronics  
Design methodologies and application of novel nanotechnologies

Bio-inspired service management framework  
Green data-centres case study

Gene set analysis for self-contained tests  
Complex null and specific alternative hypotheses

Implementation of a direct procedure for critical point computations using preconditioned iterative solvers

Elastic image registration for guiding focal laser ablation of prostate cancer  
Preliminary results

Elemental and mixed actinide dioxides  
An ab initio study

Rethinking Playing Research  
DJ HERO and Methodological Observations in the Mix

Studying the Elusive Experience in Pervasive Games

Organizational structure and the periphery of the gene regulatory network in B-cell lymphoma.

Short-term power load forecasting using grey correlation contest modeling

Body area nanonetworks with molecular communications in nanomedicine

Evaluation of effectiveness of the stickgrip device for detecting the topographic heights on digital maps

High-content screening data management for drug discovery in a small- to medium- size laboratory  
Results of a collaborative pilot study focused on user expectations as indicators of effectiveness

Design and synthesis for multimedia systems using the targeted dataflow interchange format

Wireless communications at the nanoscale

On the definition of dynamic software measures

Structural Measures for Network Biology Using QuACN

Social interaction in games

Biological principles for future Internet architecture design

BACOM

In silico detection of genomic deletion types and correction of normal cell contamination in copy number data

Multithreaded simulation for synchronous dataflow graphs

Forward simulation and inverse dipole localization with the lowest order Raviart - Thomas elements for electroencephalography

Fault tolerant machine learning for nanoscale cognitive radio

Inferring the conservative causal core of gene regulatory networks

Revealing differences in gene network inference algorithms on the network level by ensemble methods

Unite and conquer

Univariate and multivariate approaches for finding differentially expressed gene sets

On entropy-based molecular descriptors

Statistical analysis of real and synthetic chemical structures

Hierarchical coordination of periodic genes in the cell cycle of *Saccharomyces cerevisiae*

Information processing in the transcriptional regulatory network of yeast

Functional robustness

Robustness in scale-free networks  
Comparing directed and undirected networks

Nonlinear time series prediction based on a power-law noise model

A heterosynaptic learning rule for neural networks

Stochastic Sznajd Model in open community

Critical study of Newmark-scheme on manifold of finite rotations  
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Simulation of oxygen exchange of SnO<sub>2</sub> surface

A survey on control of hydraulic robotic manipulators with projection to future trends

Framework for optimization and scheduling of a copper production plant

Two models for hydraulic cylinders in flexible multibody simulations

Towards dependable automation

Flow-bounded trajectory-scaling algorithm for hydraulic robotic manipulators

Serverless  
What it Is, What to Do and What Not to Do

ICface  
Interpretable and controllable face reenactment using GANs

Propagation dynamics of ultrabroadband terahertz beams with orbital angular momentum for wireless data transfer

A membrane external-cavity surface-emitting laser (MECSEL) with emission around 825 nm

Complex-domain sparse imaging in terahertz pulse time-domain holography with balance detection

73-fs SESAM mode-locked Tm,Ho:CNGG laser at 2061 nm

Continuous-wave optical parametric oscillators for mid-infrared spectroscopy

Cyclic quantum walks  
Photonic realization and decoherence analysis

Patterns for serverless functions (Function-as-a-Service)  
A multivocal literature review

Redundancy-based visual tool center point pose estimation for long-reach manipulators

Safety at chimney-roof penetration  
A numerical investigation

Position Estimation for Drones based on Visual SLAM and IMU in GPS-denied Environment

Red Alert  
Break-Glass Protocol to Access Encrypted Medical Records in the Cloud

Visibility-Aware Part Coding for Vehicle Viewing Angle Estimation

Portrait instance segmentation for mobile devices

MAST: Mask-accelerated shearlet transform for densely-sampled light field reconstruction

Modeling mmWave Channels in High-Fidelity Simulations of Unmanned Aerial Systems

KPI-ML based integration of industrial information systems

Hand gesture-based on-line programming of industrial robot manipulators

Acceptance and perceptions of interactive location-tracking displays

Face verification and recognition for digital forensics and information security

Linearization of BJTs with logarithmic predistortion

OFDM radar with LTE waveform  
Processing and performance

Asterism  
Decentralized file sharing application for mobile devices

Error analysis of NOMA-based user cooperation with SWIPT

Digging deeper into egocentric gaze prediction

How do academics experience use of recorded audio feedback in higher education? A thematic analysis

DGC-Net  
Dense geometric correspondence network

Towards sustainable manufacturing by extending Manufacturing Execution System functions

Thin form-factor super multiview head-up display system

Additional lossless compression of JPEG images based on BPG

Phase masks optimization for broadband diffractive imaging

Combined no-reference IQA metric and its performance analysis

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

Code ABC hackathons  
Teachers as tinkerers

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

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

Single exposure lensless subpixel phase imaging

Short-range supercontinuum based lidar for combustion diagnostics

Switchable unidirectional second-harmonic emission through GaAs nanoantennas

Tailoring directional scattering of second-harmonic generation from (111)-GaAs nanoantennas

Color Constancy Convolutional Autoencoder

On Confidences and Their Use in (Semi-)Automatic Multi-Image Taxa Identification

Hardware-in-the-loop platform for testing autonomous vehicle control algorithms

Kalman-Type Filters and Smoothers for Pedestrian Dead Reckoning

Olfactory display prototype for presenting and sensing authentic and synthetic odors

Real-time and Robust Collaborative Robot Motion Control with Microsoft Kinect ® v2

Inertial Sensor-Based State Estimation of Flexible Links Subject to Bending and Torsion

Role-based visualization of industrial IoT-based systems

Dimensional analysis conceptual modeling supporting adaptable reasoning in simulation-based training

Performance Evaluation of Coordinated Multipoint Transmission at 28 GHz Frequency Using 3D Ray Tracing

Ray-based evaluation of dual-polarized MIMO in (Ultra-)dense millimeter-wave urban deployments

A multi-purpose automated vehicular platform with multi-radio connectivity capabilities

Performance Analysis of Single Carrier Coherent and Noncoherent Modulation under I/Q Imbalance

Optical Asymmetric Modulation for VLC Systems - Invited Paper

Ergodic Capacity Analysis of Wireless Transmission over Generalized Multipath/Shadowing Channels

Modeling and cancellation of self-interference in full-duplex radio transceivers  
Volterra series-based approach

Effects of blockage in deploying mmWave drone base stations for 5g networks and beyond

Optimizing wirelessly powered crowd sensing  
Trading energy for data

Secure Firmware Updates for IoT  
A Survey

Cybersecurity Attacks and Defences for Unmanned Smart Ships

Activation game for older adults - Development and initial user experiences

PIVO  
Probabilistic inertial-visual odometry for occlusion-robust navigation

Photovoltaic plant cloud shadowing and energy drops in Northern Europe

Towards secure cloud orchestration for multi-cloud deployments



Detection of beat-to-beat intervals from wrist photoplethysmography in patients with sinus rhythm and atrial fibrillation after surgery

Exploiting suppliers' potential in construction innovations

Configuring and visualizing the data resources in a cloud-based data collection framework

A multi-agent approach for processing industrial enterprise data

An approach to production scheduling optimization a case of an oil lubrication and hydraulic systems manufacturer

Detailed Interference Analysis in Dense mmWave Systems Employing Dual-Polarized Antennas

Analyzing Effects of Directional Deafness on mmWave Channel Access in Unlicensed Bands

Image-Based Localization Using Hourglass Networks

Dual Structured Convolutional Neural Network with Feature Augmentation for Quantitative Characterization of Tissue Histology

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

Multiwavelength surface contouring from phase-coded diffraction patterns

Elementary math to close the digital skills gap

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

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

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

Methods and tools for denoising of complex-valued images based on block-matching and high order singular value decomposition

Deep p-Fibonacci scattering networks

Blind estimation of white Gaussian noise variance in highly textured images

Robust linearized combined metrics of image visual quality

Combined local and global image enhancement algorithm

Compression of signs of DCT coefficients for additional lossless compression of JPEG images

Conversion of sparsely-captured light field into alias-free fullparallax multiview content

Knowledge-based artificial neural network (KB-ANN) in engineering  
Associating functional architecture modeling, dimensional analysis and causal graphs to produce optimized topologies for KB-ANNs

Architectural patterns for microservices  
A systematic mapping study

Action recognition using the 3D dense microblock difference

Predicting academic success based on learning material usage

Comparison of time metrics in programming

Novel D2D-based relaying method for multicast services over 3GPP LTE-A systems

Mobility aware eMBMS management in urban 5G-oriented systems

Optimal subgroup configuration for multicast services over 5G-satellite systems

Monitoring pH, temperature and humidity in long-term stem cell culture in CO<sub>2</sub> incubator

Using and collecting fine-grained usage data to improve online learning materials

Towards the Utilization of Crowdsourcing in Traffic Condition Reporting

Preventing keystroke based identification in open data sets

Towards a conceptual framework for privacy protection in the use of interactive 360° video surveillance

Viewport-adaptive encoding and streaming of 360-degree video for virtual reality applications

Standard-compliant multiview video coding and streaming for virtual reality applications

Efficient coding of 360-degree pseudo-cylindrical panoramic video for virtual reality applications

Color-distribution similarity by information theoretic divergence for color images

Dynamic laser speckle metrology with binarization of speckle patterns

Picosecond MOPA with ytterbium doped tapered double clad fiber

Internet of Things  
Opportunities for vocational education and training: Presentation of the pilot project

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

Dimension reduction and decomposition using causal graph and qualitative analysis for aircraft concept design optimization

Complex elevator system DSM-case for a DSM design sprint

Full-reference metrics multidistortional analysis

BM3D-HVS  
Content-Adaptive denoising for improved visual quality

A dynamical quality model to continuously monitor software maintenance

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

Describing mobile devices as RESTful services for the end-users

Dynamic social trust associations over d2d communications  
An implementation perspective

Temporal dimensions of affect in user experience of digital news in the field

Software visualization today - Systematic literature review

Participatory development of user experience design guidelines for a B2B company

Focusing on user experience and business models in startups  
Investigation of two-dimensional value creation

Casual immersive viewing with smartphones

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

MVP Explained  
A Systematic Mapping Study on the Definitions of Minimal Viable Product

Challenges and capabilities of conductive polymeric materials for electromechanical stimulation of stem cells  
A case study

Trading exploits online  
A preliminary case study

Asymmetric full-duplex with contiguous downlink carrier aggregation

Utilizing MOOCs in the development of education and training programs

Portable sensor system for reliable condition measurement

Multi-carrier CDMA for network assisted device-to-device communications for an integrated OFDMA cellular system

Novel frequency domain cyclic prefix autocorrelation based compressive spectrum sensing for cognitive radio

A novel stochastic channel modeling approach for mmWave systems with beamforming

Investigating mid-air gestures and handhelds in motion tracked environments

Towards semantic self-description of industrial devices and control system interfaces

Coordinating proactive social devices in a mobile cloud  
Lessons learned and a way forward

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

Random Value Impulse Noise Removal Based on Most Similar Neighbors

Quantitative + qualitative information for heritage conservation  
An open science research for paving 'collaboratively' the way to historical-BIM

Lean manufacturing methods in simulation literature  
Review and association analysis

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

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

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

Methodology to obtain the security controls in multi-cloud applications

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

Dots-on-the-fly electron beam lithography

An image generator platform to improve cell tracking algorithms simulation of objects of various morphologies, kinetics and clustering

Simultaneous binary hash and features learning for image retrieval

Hot pen and laser writable photonic polymer films

HVS-based local analysis of denoising efficiency for DCT-based filters

Method of data compression for traffic monitoring

Bispectrum-based demodulation technique using triple-channel heterodyning of triplet-signal

Texture detection in noisy images by combining several local parameters

Urban sensing and smart home energy optimisations  
A machine learning approach

Antroposeeni - A mixed reality game

OASIS deck of cards - House of colleagues  
A playful

Evaluating a Future Remote Control Environment with an Experience-Driven Science Fiction Prototype

Image interpolation based on non-local geometric similarities

Gathering useful programming data; Analysis and insights from real-time collaborative editing

Wideband self-adaptive RF cancellation circuit for full-duplex radio  
Operating principle and measurements

Prioritized centrally-controlled resource allocation in integrated multi-RAT HetNets

AvanTomography  
A compact module for positron emission mammography

Collaborative cloud-based management of home networks

Blind estimation of speckle variance in synthetic aperture radar images

Experimental study of bispectrum-based encoding in radio communication system

Variable switching point predictive torque control with extended prediction horizon

Semantic Labeling of Places based on Phone Usage Features using Supervised Learning  
Julkaisun otsikon käännös: : Semantic Labeling of Places based on Phone Usage Features using Supervised Learning

Video summarization based on Subclass Support Vector Data Description

Employing a multi-Objective robust optimisation method for healthy and low-energy dwelling design in Delhi, India

2.4 GHz inkjet-printed RF energy harvester on bulk cardboard substrate

Power and wavelength scaling using semiconductor disk laser - bismuth fiber MOPA systems

Green (In,Ga,Al)P-GaP light-emitting diodes grown on high-index GaAs surfaces

Preserving natural scene lighting by strobe-lit video

Machine learning for adaptive bilateral filtering

A perceptual quality metric for high-definition stereoscopic 3D video

No-reference visual quality assessment for image inpainting

Real-time depth image-based rendering with layered dis-occlusion compensation and aliasing-free composition

A method for predicting DCT-based denoising efficiency for grayscale images corrupted by AWGN and additive spatially correlated noise

Depth map occlusion filling and scene reconstruction using modified exemplar-based inpainting

1180nm VECSEL with 50 W output power

Monolithic GaInNAsSb/GaAs VECSEL emitting at 1550 nm

>8W GaInNAs VECSEL emitting at 615 nm

Combining full-reference image visual quality metrics by neural network

Idea-space

A use case of collaborative course development in higher education

Roadmap for organic and printed electronics

Measuring bend losses in large-mode-area fibers

Multi-physics modeling and simulation of a frequency doubling antenna sensor for passive wireless strain sensing

DYNAMO sound engine - Exploring the aesthetics of dynamic sound interactions

Body-touching

An embodied interaction technique for health information systems in developing regions

Email intensity, productivity and control in the knowledge worker's performance on the desktop

Games and energy

Profiling power usage during play

MurMur Moderators, the talking playful seats

On computation of calcium cycling anomalies in cardiomyocytes data

RF tag front-end design for uncompromised communication and harvesting

Effect of feeder cable's phase tolerance on the first sidelobe level of base station antenna

Adaptive sampling for compressed sensing based image compression

Radar micro-Doppler feature extraction using the Singular Value Decomposition

Haptic user interface enhancement system for touchscreen based interaction  
A novel system for multimodal interaction with touchscreen interfaces

Developing novel multimodal interaction techniques for touchscreen in-vehicle infotainment systems

The lord of the sense  
A privacy preserving reputation system for participatory sensing applications

Pulsed high-power yellow-orange VECSEL  
Julkaisun otsikon käännös: : Pulsed high-power yellow-orange VECSEL

Graph based representation and analyses for conceptual stages

Optical and topographic changes in water-responsive patterned cholesteric liquid crystalline polymer coatings

A hand-held immaterial volumetric display

Avoiding anomalies when modeling a many-to-many relationship in a multidimensional database

Mode coupling in few-mode large-mode-area fibers

Building energy-efficiency interventions in North-East Europe  
Effects on indoor environmental quality and public health

Crack propagation measurement using a battery-free slotted patch antenna sensor

Compressive strain measurement using RFID patch antenna sensors

An origami inspired reconfigurable spiral antenna

Characterization of charge in airborne fungal spores

Wearable and implantable antennas for wireless body-centric sensing systems

Variable switching point predictive torque control

View-independent human action recognition based on multi-view action images and discriminant learning

Person identification from actions based on dynemes and discriminant learning

Exploiting RSS measurements among neighbouring devices  
A matter of trust

Towards an approach for evaluating the quality of requirements

Checking visual data flow programs with finite process models

Design and simulation of a slotted patch antenna sensor for wireless strain sensing

Chip-to-package wireless power transfer and its application to mm-Wave antennas and monolithic radiometric receivers

Virtualizing power cords by wireless power transmission and energy harvesting

Wireless chipless passive electromagnetic transducers for SHM applications

Multi-physics modeling and simulation of a slotted patch antenna for wireless strain sensing

Service-oriented approach to improve interoperability of e-learning systems

How do students solve parsons programming problems? - Execution-based vs. line-based feedback

A novel framework for design and implementation of adaptive stream mining systems

Face typing  
Vision-based perceptual interface for hands-free text entry with a scrollable virtual keyboard

A system for real-time detection and tracking of vehicles from a single car-mounted camera

Wear and corrosion behaviour of HVOF coatings engineered from conventional WC-Co-Cr and conventional WC-Co-Cr added nanostructured Wc-Co powders

Wireless sensing and identification of passive electromagnetic sensors based on millimetre-wave FMCW RADAR

Thermal effects on a passive wireless antenna sensor for strain and crack sensing

Systematic integration of flowgraph- and module-level parallelism in implementation of DSP applications on multiprocessor systems-on-chip

Multiobjective TDMA optimization for neuron-based molecular communication

Distributed pervasive services using group service communication supporting body area networks



Visually lossless compression of synthetic aperture radar images

Performance evaluation of distributed NoTA applications on multi-core platforms

Influence factors for sharing open science and open educational resources through social networking services

SkyMedia - UAV-based capturing of HD/3D content with WSN augmentation for immersive media experiences

PETMEI 2011

The 1st international workshop on pervasive eye tracking and mobile eye-based interaction

Database-driven tool support for DisCo executable specifications