

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

Soft robotic gripper with compliant cell stacks for industrial part handling

Tree species classification using structural features derived from terrestrial laser scanning

Measurements of Mobile Blockchain Execution Impact on Smartphone Battery

Flow-bounded trajectory-scaling algorithm for hydraulic robotic manipulators

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

ICface
Interpretable and controllable face reenactment using GANs

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

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

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

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

Anthropometric clothing measurements from 3D body scans

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

Continuous-wave optical parametric oscillators for mid-infrared spectroscopy

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

Cyclic quantum walks
Photonic realization and decoherence analysis

Data augmentation approaches for improving animal audio classification

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

FinnForest dataset
A forest landscape for visual SLAM

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

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

In-flightwind field identification and prediction of parafoil systems

Internet of Things and Sensor Networks

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

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

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

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

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

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

Probabilistic approach to physical object disentangling

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

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

Safety at chimney-roof penetration
A numerical investigation

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

UAV-Aided Interference Assessment for Private 5G NR Deployments
Challenges and Solutions

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

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

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

Deliberate or Instinctive? Proactive and Reactive Coping for Technostress

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

DevOps in practice
A multiple case study of five companies

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

The Internet of Things and Sensor Networks

Hermitian normalized Laplacian matrix for directed networks

Internet of Autonomous Vehicles
Architecture, Features, and Socio-Technological Challenges

Visibility-Aware Part Coding for Vehicle Viewing Angle Estimation

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

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

KPI-ML based integration of industrial information systems

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

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

Portrait instance segmentation for mobile devices

Acceptance and perceptions of interactive location-tracking displays

Biomechanical performance of cranial implants with different thicknesses and material properties
A finite element study

Energy Efficiency of Multi-Radio Massive Machine-Type Communication (MR-MMTC)
Applications, Challenges, and Solutions

Face verification and recognition for digital forensics and information security

Future of Ultra-Dense Networks Beyond 5G
Harnessing Heterogeneous Moving Cells

Socially inspired relaying and proactive mode selection in mmWave vehicular communications

Approximate robust output regulation of boundary control systems

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

Linearization of BJTs with logarithmic predistortion

OFDM radar with LTE waveform
Processing and performance

Asterism
Decentralized file sharing application for mobile devices

Dense Moving Fog for Intelligent IoT
Key Challenges and Opportunities

Error analysis of NOMA-based user cooperation with SWIPT

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

DGC-Net
Dense geometric correspondence network

Digging deeper into egocentric gaze prediction

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

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 sustainable manufacturing by extending Manufacturing Execution System functions

Additional lossless compression of JPEG images based on BPG

Combined no-reference IQA metric and its performance analysis

Phase masks optimization for broadband diffractive imaging

Thin form-factor super multiview head-up display system

Performance evaluation of bandwidth reservation for mmWave 5G NR systems

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

1.3 μ m U-bend traveling wave SOA devices for high efficiency coupling to silicon photonics

1.55- μ m wavelength wafer-fused OP-VECSELs in flip-chip configuration

405-nm pumped Ce³⁺-doped silica fiber for broadband fluorescence from cyan to red

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

Action and power efficiency in self-organization
The case for growth efficiency as a cellular objective in escherichia coli

Benchmarking of several disparity estimation algorithms for light field processing

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

Code ABC hackathons
Teachers as tinkerers

Color Constancy Convolutional Autoencoder

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

DNA Molecular Storage System
Transferring Digitally Encoded Information through Bacterial Nanonetworks

Emptiness problems for distributed automata

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

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

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

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

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

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

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

Observation of local electroluminescent cooling and identifying the remaining challenges

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

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

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

Revisiting gray pixel for statistical illumination estimation

Short-range supercontinuum based lidar for combustion diagnostics

Single exposure lensless subpixel phase imaging

Smartphone teleoperation for self-balancing telepresence robots

Switchable unidirectional second-harmonic emission through GaAs nanoantennas

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

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

SCIP
a single-cell image processor toolbox

Active scanner control on paper machines

A Portable Microscale Cell Culture System with Indirect Temperature Control

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

Organizing for openness
six models for developer involvement in hybrid OSS projects

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

Kalman-Type Filters and Smoothers for Pedestrian Dead Reckoning

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

Olfactory display prototype for presenting and sensing authentic and synthetic odors

Breaking the limits in urban video monitoring
Massive crowd sourced surveillance over vehicles

Focus model for metric depth estimation in standard plenoptic cameras

Graph measures with high discrimination power revisited
A random polynomial approach

Guest Editorial Special Issue on Multimedia Big Data in Internet of Things

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

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

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

Role-based visualization of industrial IoT-based systems

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

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

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

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

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

Optical Asymmetric Modulation for VLC Systems - Invited Paper

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

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

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

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

Optimizing wirelessly powered crowd sensing
Trading energy for data

Cybersecurity Attacks and Defences for Unmanned Smart Ships

Secure Firmware Updates for IoT
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Wireless Communications for Optogenetics-Based Brain Stimulation
Present Technology and Future Challenges

Activation game for older adults - Development and initial user experiences

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

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

Last Meter Indoor Terahertz Wireless Access
Performance Insights and Implementation Roadmap

Conformal mapping of the human scapula to generate dense landmark features

PIVO
Probabilistic inertial-visual odometry for occlusion-robust navigation

Preface
Special Issue on 'New Hydraulic Components for Tough Robots'

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

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

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

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

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

Exploiting suppliers' potential in construction innovations

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

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

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

Image-Based Localization Using Hourglass Networks

Multiwavelength surface contouring from phase-coded diffraction patterns

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

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

Action recognition using the 3D dense microblock difference

A Primal Neural Network for Online Equality-Constrained Quadratic Programming

Architectural patterns for microservices
A systematic mapping study

Blind estimation of white Gaussian noise variance in highly textured images

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

Deep p-Fibonacci scattering networks

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

Elementary math to close the digital skills gap

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

Highly-efficient Ho:KY(WO₄)₂ thin-disk lasers at 2.06 μm

How to design gamification? A method for engineering gamified software

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

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

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

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

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

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

On the degeneracy of the Randić entropy and related graph measures

Reduced Order Internal Models in the Frequency Domain

Robust linearized combined metrics of image visual quality

Robust Regulation of Infinite-Dimensional Port-Hamiltonian Systems

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

Fast Water Simulation Methods for Games

How developers perceive smells in source code
A replicated study

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

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

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

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 permanental polynomial

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

Predicting academic success based on learning material usage

The effect of lake bottom sediment layers on radionuclide transport from bedrock to biosphere and doses to humans

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

Robust Output Regulation for Continuous-Time Periodic Systems

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

Comparison of time metrics in programming

Indirect NO_x emission monitoring in natural gas fired boilers

Mobility aware eMBMS management in urban 5G-oriented systems

Monitoring pH, temperature and humidity in long-term stem cell culture in CO₂ incubator

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

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

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

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

CNN-based edge filtering for object proposals

Towards the Utilization of Crowdsourcing in Traffic Condition Reporting

Preventing keystroke based identification in open data sets

A Mixed Finite Element Method to Solve the EEG Forward Problem

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

Guest editorial introduction to the focused section on design and control of hydraulic robots

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

Neighborhood Matching for Image Retrieval

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

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

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

GSAR
Bioconductor package for Gene Set analysis in R

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

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

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

Color-distribution similarity by information theoretic divergence for color images

Architectures and codecs for real-time light field streaming

Advanced boundary electrode modeling for tES and parallel tES/EEG

A dynamical quality model to continuously monitor software maintenance

Bayes Forest
A data-intensive generator of morphological tree clones

BM3D-HVS

Content-Adaptive denoising for improved visual quality

Complex elevator system DSM-case for a DSM design sprint

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

Dynamic laser speckle metrology with binarization of speckle patterns

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

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

Full-reference metrics multidistortional analysis

Internet of Things

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

Method for Simulating Dose Reduction in Digital Breast Tomosynthesis

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

Picosecond MOPA with ytterbium doped tapered double clad fiber

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

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

Using enterprise architecture artefacts in an organisation

Describing mobile devices as RESTful services for the end-users

Dynamic social trust associations over d2d communications

An implementation perspective

Visual decision support for business ecosystem analysis

Improving the delivery cycle

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

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

SamExploreR

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

Casual immersive viewing with smartphones

Focusing on user experience and business models in startups

Investigation of two-dimensional value creation

Participatory development of user experience design guidelines for a B2B company

Software visualization today - Systematic literature review

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

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

Full-duplex mobile device

Pushing the limits

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

Trading exploits online

A preliminary case study

Asymmetric full-duplex with contiguous downlink carrier aggregation

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

Toward trusted, social-aware D2D connectivity

Bridging across the technology and sociality realms

Portable sensor system for reliable condition measurement

Utilizing MOOCs in the development of education and training programs

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

A novel stochastic channel modeling approach for mmWave systems with beamforming

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

Framework for optimization and scheduling of a copper production plant

Investigating mid-air gestures and handhelds in motion tracked environments

Fifty years of graph matching, network alignment and network comparison

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

Visual Voice Activity Detection in the Wild

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

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

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

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

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

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

Lean manufacturing methods in simulation literature
Review and association analysis

Guest editorial special issue on the internet of nano things

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

Brownfield Process

A method for modular product family development aiming for product configuration

Digital storytelling promoting twenty-first century skills and student engagement

Dots-on-the-fly electron beam lithography

Fabrication and characterization of broadband superluminescent diodes for 2 μm wavelength

Graph Embedded Extreme Learning Machine

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

Hot pen and laser writable photonic polymer films

HTML5-based mobile agents for Web-of-Things

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

Methodology to obtain the security controls in multi-cloud applications

Metrics for polyphonic sound event detection

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

Simultaneous binary hash and features learning for image retrieval

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

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

Two models for hydraulic cylinders in flexible multibody simulations

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

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

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

Method of data compression for traffic monitoring

Texture detection in noisy images by combining several local parameters

Urban sensing and smart home energy optimisations
A machine learning approach

Polynomial Input-Output Stability for Linear Systems

Antroposeeni - A mixed reality game

OASIS deck of cards - House of colleagues
A playful

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

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

Distance-based human action recognition using optimized class representations

Image interpolation based on non-local geometric similarities

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

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

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

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

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

Railway fastener inspection by real-time machine vision

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

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

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

Multistep reactions of water with small Pd_n clusters
A first principles study

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

Variable switching point predictive torque control with extended prediction horizon

Designing controllers with reduced order internal models

Task-based information interaction evaluation
The viewpoint of program theory

The internet of Bio-Nano things

Semantic Labeling of Places based on Phone Usage Features using Supervised Learning

Communication challenges in high-density deployments of wearable wireless devices

Fault tolerant control architecture design for mobile manipulation in scientific facilities

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

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

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

1180nm VECSEL with 50 W output power

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

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

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

Combining full-reference image visual quality metrics by neural network

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

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

Extreme learning machine based supervised subspace learning

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

>8W GaInNAs VECSEL emitting at 615 nm

Idea-space

A use case of collaborative course development in higher education

Machine learning for adaptive bilateral filtering

Measuring bend losses in large-mode-area fibers

Monolithic GaInNAsSb/GaAs VECSEL emitting at 1550 nm

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

No-reference visual quality assessment for image inpainting

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

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

Preserving natural scene lighting by strobe-lit video

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

Roadmap for organic and printed electronics

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

Towards dependable automation

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

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

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

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

Body-touching

An embodied interaction technique for health information systems in developing regions

DYNAMO sound engine - Exploring the aesthetics of dynamic sound interactions

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

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_{80} fullerene

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

Adaptive sampling for compressed sensing based image compression

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

Radar micro-Doppler feature extraction using the Singular Value Decomposition

A computational approach to construct a multivariate complete graph invariant

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

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

Gene Sets Net Correlations Analysis (GSNCA)
A multivariate differential coexpression test for gene sets

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

Tuberculosis transmission
Modelled impact of air-tightness in dwellings in the UK

Using probabilistic sampling-based sensitivity analyses for indoor air quality modelling

A hand-held immaterial volumetric display

An origami inspired reconfigurable spiral antenna

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

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

Characterization of charge in airborne fungal spores

Compressive strain measurement using RFID patch antenna sensors

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

Functional and genetic analysis of the colon cancer network.

Graph based representation and analyses for conceptual stages

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

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

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

Pulsed high-power yellow-orange VECSEL

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

Wearable and implantable antennas for wireless body-centric sensing systems

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

Variable switching point predictive torque control

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

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

Checking visual data flow programs with finite process models

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

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

Exploiting RSS measurements among neighbouring devices
A matter of trust

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

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

Magnetomechanical coupled FE simulations of rotating electrical machines

Multidimensional sequence classification based on fuzzy distances and discriminant analysis

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

On the optimal class representation in linear discriminant analysis

Person identification from actions based on dynamemes and discriminant learning

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

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

Towards an approach for evaluating the quality of requirements

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

Virtualizing power cords by wireless power transmission and energy harvesting

Wireless chipless passive electromagnetic transducers for SHM applications

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

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

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

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.

Body area nanonetworks with molecular communications in nanomedicine

Short-term power load forecasting using grey correlation context modeling

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

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

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

Face typing

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

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

Multiobjective TDMA optimization for neuron-based molecular communication

On the definition of dynamic software measures

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

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

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

Wireless communications at the nanoscale

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

Structural Measures for Network Biology Using QuACN

Distributed pervasive services using group service communication supporting body area networks

Biological principles for future Internet architecture design

Social interaction in games

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

A design tool for efficient mapping of multimedia applications onto heterogeneous platforms

A probability-based approach to modeling the risk of unauthorized propagation of information in on-line social networks

Bio-inspired service management framework

Green data-centres case study

Database-driven tool support for DisCo executable specifications

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

Multicolor nonlinear pulse compression by consecutive optical parametric amplification in quasi-phase matched structures

On delay distribution in IEEE 802.11 wireless networks