

Guest editorial special issue on the internet of nano things

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A heterosynaptic learning rule for neural networks

A Mixed Finite Element Method to Solve the EEG Forward Problem

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Analytical model for magnetic anisotropy of non-oriented steel sheets

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Anthropometric clothing measurements from 3D body scans

A Portable Microscale Cell Culture System with Indirect Temperature Control

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A Primal Neural Network for Online Equality-Constrained Quadratic Programming

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

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

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Adsorption equilibrium, modelling and uncertainties determination

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

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

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Data augmentation approaches for improving animal audio classification

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Digital storytelling promoting twenty-first century skills and student engagement

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Fast neural network regularization with Dropout and DropConnect

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

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

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

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

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

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

Elastic image registration for guiding focal laser ablation of prostate cancer

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Employing Knowledge on Causal Relationship to Assist Multidisciplinary Design Optimization

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

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

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

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Extreme learning machine based supervised subspace learning

Fast Water Simulation Methods for Games

Fault tolerant control architecture design for mobile manipulation in scientific facilities

Fault tolerant machine learning for nanoscale cognitive radio

Fifty years of graph matching, network alignment and network comparison

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A forest landscape for visual SLAM

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

Focus model for metric depth estimation in standard plenoptic cameras

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

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Functional and genetic analysis of the colon cancer network.

Future of Ultra-Dense Networks Beyond 5G
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Game-theoretic semantics for ATL⁺ with applications to model checking

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

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

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

Gene Sets Net Correlations Analysis (GSNCA)
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Graph Embedded Extreme Learning Machine

Graph measures with high discrimination power revisited
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Bioconductor package for Gene Set analysis in R

Hermitian normalized Laplacian matrix for directed networks

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

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

Highly dynamic spectrum management within licensed shared access regulatory framework

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

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

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

How developers perceive smells in source code
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How to design gamification? A method for engineering gamified software

HTML5-based mobile agents for Web-of-Things

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

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

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

Importance of the ion-pair interactions in the OPEP coarse-grained force field
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Improving the delivery cycle
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Indirect measurement of the vascular endothelial glycocalyx layer thickness in human submucosal capillaries with a plug-in for ImageJ

Indirect NO_x emission monitoring in natural gas fired boilers

Inferring the conservative causal core of gene regulatory networks

In-flightwind field identification and prediction of parafoil systems

Information processing in the transcriptional regulatory network of yeast
Functional robustness

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

Intellectual capital and bi-tools in private healthcare value creation

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

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Architecture, Features, and Socio-Technological Challenges

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

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

Last Meter Indoor Terahertz Wireless Access
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Layered approach for improving the quality of free-viewpoint depth-image-based rendering images

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

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

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

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

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

Measurements of Mobile Blockchain Execution Impact on Smartphone Battery

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

Method for Simulating Dose Reduction in Digital Breast Tomosynthesis

Metrics for polyphonic sound event detection

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

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

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

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

Molecular Communications Pulse-based Jamming Model for Bacterial Biofilm Suppression

Motivating scholars' responses in academic social networking sites
An empirical study on ResearchGate Q&A behavior

Multidimensional sequence classification based on fuzzy distances and discriminant analysis

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

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

Multistep reactions of water with small Pd_n clusters
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Multithreaded simulation for synchronous dataflow graphs

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

Neighborhood Matching for Image Retrieval

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

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Assessing gene network inference algorithms by network-based measures

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

Noise minimized high resolution digital holographic microscopy applied to surface topography

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

On entropy-based molecular descriptors
Statistical analysis of real and synthetic chemical structures

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

On the complexity of restoring corrupted colorings

On the definition of dynamic software measures

On the degeneracy of the Randić entropy and related graph measures

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

On the optimal class representation in linear discriminant analysis

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

On the zeros of the partial Hosoya polynomial of graphs

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

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

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

Organizing for openness
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Performance evaluation of bandwidth reservation for mmWave 5G NR systems

Planar monopole antennas on substrates fabricated through an additive manufacturing process

Polynomial Input-Output Stability for Linear Systems

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

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

Probabilistic approach to physical object disentangling

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

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

Railway fastener inspection by real-time machine vision

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

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

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

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

Robustness in scale-free networks
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Robust Output Regulation for Continuous-Time Periodic Systems

Robust Regulation of Infinite-Dimensional Port-Hamiltonian Systems

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

SCIP
a single-cell image processor toolbox

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

Short-term power load forecasting using grey correlation contest modeling

Simulation of oxygen exchange of SnO₂ surface

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

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Socially inspired relaying and proactive mode selection in mmWave vehicular communications

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

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

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

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Stochastic Sznajd Model in open community

Structural Measures for Network Biology Using QuACN

Studying the Elusive Experience in Pervasive Games

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

System integration for real-time mobile manipulation

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

Task-based information interaction evaluation
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Technoeconomical Analysis of Macrocell and Femtocell Based HetNet under Different Deployment Constraints

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

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

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Time-dose integrated modelling of toxicogenomics data

Towards detecting structural branching and cyclicity in graphs
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Toward trusted, social-aware D2D connectivity
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Transforming homo economicus into homo ludens
A field experiment on gamification in a utilitarian peer-to-peer trading service

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Transparency of intentions decreases privacy concerns in ubiquitous surveillance

Tree species classification using structural features derived from terrestrial laser scanning

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

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

Unite and conquer

Univariate and multivariate approaches for finding differentially expressed gene sets

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

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

Uses and Gratifications of Pokémon Go

Why do People Play Mobile Location-Based Augmented Reality Games?

Using building simulation to model the drying of flooded building archetypes

Using enterprise architecture artefacts in an organisation

Utilizing Neurons for Digital Logic Circuits

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Visual decision support for business ecosystem analysis

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Wireless Communications for Optogenetics-Based Brain Stimulation
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A survey on control of hydraulic robotic manipulators with projection to future trends

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

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

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

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Action and power efficiency in self-organization
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Activation game for older adults - Development and initial user experiences

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Additional lossless compression of JPEG images based on BPG

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A framework for building behavioral models for design-stage failure identification using dimensional analysis

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

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

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

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

An origami inspired reconfigurable spiral antenna

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

A novel stochastic channel modeling approach for mmWave systems with beamforming

Antroposeeni - A mixed reality game

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

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

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Decentralized file sharing application for mobile devices

Asymmetric full-duplex with contiguous downlink carrier aggregation

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

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A compact module for positron emission mammography

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Building energy-efficiency interventions in North-East Europe
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Challenges and capabilities of conductive polymeric materials for electromechanical stimulation of stem cells
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Characterization of charge in airborne fungal spores

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

Classification of large graphs by a local tree decomposition

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

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

Compressive strain measurement using RFID patch antenna sensors

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

Condition monitoring of storage batteries in telecom power systems-crisp vs. soft computing methodology

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

Conformal mapping of the human scapula to generate dense landmark features

Continuous-wave optical parametric oscillators for mid-infrared spectroscopy

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Cybersecurity Attacks and Defences for Unmanned Smart Ships

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

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

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DGC-Net
Dense geometric correspondence network

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

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

Distributed pervasive services using group service communication supporting body area networks

Dots-on-the-fly electron beam lithography

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

Dynamic laser speckle metrology with binarization of speckle patterns

Dynamic social trust associations over d2d communications
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DYNAMO sound engine - Exploring the aesthetics of dynamic sound interactions

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

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

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

Elementary math to close the digital skills gap

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

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

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

Error analysis of NOMA-based user cooperation with SWIPT

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

Experimental study of bispectrum-based encoding in radio communication system

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

Exploiting RSS measurements among neighbouring devices
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Exploiting suppliers' potential in construction innovations

Fabrication and characterization of broadband superluminescent diodes for 2 μm wavelength

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Face verification and recognition for digital forensics and information security

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

Flow-bounded trajectory-scaling algorithm for hydraulic robotic manipulators

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From monolithic systems to microservices
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Global information processing in gene networks
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Graph based representation and analyses for conceptual stages

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

>8W GaInNAs VECSEL emitting at 615 nm

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

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

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

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

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

Hot pen and laser writable photonic polymer films

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

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

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

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Image-Based Localization Using Hourglass Networks

Image interpolation based on non-local geometric similarities

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

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

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

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

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

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Monolithic GaInNAsSb/GaAs VECSEL emitting at 1550 nm

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

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

Multiobjective TDMA optimization for neuron-based molecular communication

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

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

Multiwavelength surface contouring from phase-coded diffraction patterns

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A Systematic Mapping Study on the Definitions of Minimal Viable Product

Network classes and graph complexity measures

No-reference visual quality assessment for image inpainting

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

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

OASIS deck of cards - House of colleagues
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Observation of local electroluminescent cooling and identifying the remaining challenges

OFDM radar with LTE waveform
Processing and performance

Olfactory display prototype for presenting and sensing authentic and synthetic odors

On computation of calcium cycling anomalies in cardiomyocytes data

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

On delay distribution in IEEE 802.11 wireless networks

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

Optical Asymmetric Modulation for VLC Systems - Invited Paper

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

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

Optimizing wirelessly powered crowd sensing
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Participatory development of user experience design guidelines for a B2B company

Patterns for serverless functions (Function-as-a-Service)
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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

Performance evaluation of distributed NoTA applications on multi-core platforms

Person identification from actions based on dynamemes and discriminant learning

PETMEI 2011
The 1st international workshop on pervasive eye tracking and mobile eye-based interaction

Phase masks optimization for broadband diffractive imaging

Photovoltaic plant cloud shadowing and energy drops in Northern Europe

Picosecond MOPA with ytterbium doped tapered double clad fiber

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Probabilistic inertial-visual odometry for occlusion-robust navigation

Portable sensor system for reliable condition measurement

Portrait instance segmentation for mobile devices

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

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

Predicting academic success based on learning material usage

Preserving natural scene lighting by strobe-lit video

Preventing keystroke based identification in open data sets

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

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

Pulsed high-power yellow-orange VECSEL

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

Quantitative + qualitative information for heritage conservation

An open science research for paving 'collaboratively' the way to historical-BIM

Radar micro-Doppler feature extraction using the Singular Value Decomposition

Random Value Impulse Noise Removal Based on Most Similar Neighbors

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

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

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

Red Alert

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

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

Revisiting gray pixel for statistical illumination estimation

RF tag front-end design for uncompromised communication and harvesting

Roadmap for organic and printed electronics

Robust linearized combined metrics of image visual quality

Role-based visualization of industrial IoT-based systems

Safety at chimney-roof penetration
A numerical investigation

Secure Firmware Updates for IoT
A Survey

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

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

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

Short-range supercontinuum based lidar for combustion diagnostics

Simultaneous binary hash and features learning for image retrieval

Single exposure lensless subpixel phase imaging

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

Smartphone teleoperation for self-balancing telepresence robots

Soft computing-based controller design for a telecom rectifier

Software visualization today - Systematic literature review

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

Switchable unidirectional second-harmonic emission through GaAs nanoantennas

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

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

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

Texture detection in noisy images by combining several local parameters

The lord of the sense

A privacy preserving reputation system for participatory sensing applications

The magical world of metamaterials

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

Thickness variation study of RFID-based folded patch antennas for strain sensing

Thin form-factor super multiview head-up display system

Towards a channel capacity of communication networks