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Short-range supercontinuum based lidar for combustion diagnostics

Switchable unidirectional second-harmonic emission through GaAs nanoantennas

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

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Olfactory display prototype for presenting and sensing authentic and synthetic odors

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

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Role-based visualization of industrial IoT-based systems

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

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

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Exploiting suppliers' potential in construction innovations

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

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Multiwavelength surface contouring from phase-coded diffraction patterns

Elementary math to close the digital skills gap

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

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Deep p-Fibonacci scattering networks

Blind estimation of white Gaussian noise variance in highly textured images

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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

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Action recognition using the 3D dense microblock difference

Predicting academic success based on learning material usage

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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

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Dynamic laser speckle metrology with binarization of speckle patterns

Picosecond MOPA with ytterbium doped tapered double clad fiber

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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

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A dynamical quality model to continuously monitor software maintenance

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

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Dynamic social trust associations over d2d communications

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

Software visualization today - Systematic literature review

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Investigation of two-dimensional value creation

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A Systematic Mapping Study on the Definitions of Minimal Viable Product

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

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

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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  
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Antroposeeni - A mixed reality game

OASIS deck of cards - House of colleagues  
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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  
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Prioritized centrally-controlled resource allocation in integrated multi-RAT HetNets

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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

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

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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

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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

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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

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 dynamics 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

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

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

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

On delay distribution in IEEE 802.11 wireless networks

Bio-inspired service management framework

Green data-centres case study

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

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

Wrench feasible workspace analysis of cable-driven parallel manipulators using LMI approach

Mobile Journalist Toolkit

A field study on producing news articles with a mobile device

The magical world of metamaterials

Towards certifying the testing process of open-source software

New challenges or old methodologies?

Network classes and graph complexity measures

Towards a channel capacity of communication networks

Measurement theory and dimensional analysis  
Methodological impact on the comparison and evaluation process

Global information processing in gene networks  
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Labyrinth based left-handed metamaterials and sub-wavelength focusing of electromagnetic waves

Classification of large graphs by a local tree decomposition

Framework for optimization and scheduling of a copper production plant

Two models for hydraulic cylinders in flexible multibody simulations

Towards dependable automation

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

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

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

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Utilizing Neurons for Digital Logic Circuits  
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Anthropometric clothing measurements from 3D body scans

Data augmentation approaches for improving animal audio classification

Correlates of social media fatigue and academic performance decrement  
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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<sup>+</sup> 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  
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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)  
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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

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Empowering Heterogeneous Communication Data Links in General Aviation through mmWave Signals

Motivating scholars' responses in academic social networking sites  
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Deliberate or Instinctive? Proactive and Reactive Coping for Technostress

DevOps in practice  
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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

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

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Performance evaluation of bandwidth reservation for mmWave 5G NR systems

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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

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A Portable Microscale Cell Culture System with Indirect Temperature Control

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

Last Meter Indoor Terahertz Wireless Access  
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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  
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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  
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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 NO<sub>x</sub> 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  
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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

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

Visual decision support for business ecosystem analysis

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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

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Task-based information interaction evaluation

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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

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

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

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System integration for real-time mobile manipulation

A computational approach to construct a multivariate complete graph invariant

Gene Sets Net Correlations Analysis (GSNCA)  
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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

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Assessing gene network inference algorithms by network-based measures

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

Using building simulation to model the drying of flooded building archetypes

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

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