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Modeling and Mitigating 5G Wireless Downlink Interferences for Low-altitude Aerial vehicles

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Measurements of Reflection and Penetration Losses in Low Terahertz Band Vehicular Communications

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Towards Asteroid Tomography  
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Functional electrical stimulation for facial pacing  
Effects of waveforms on movement intensity and ratings of discomfort

Fusion enhancement for tracking of respiratory rate through intrinsic mode functions in photoplethysmography

Multimodal subspace support vector data description

Online Spectrogram Inversion for Low-Latency Audio Source Separation

Parametric exploration of cellular swelling in a computational model of cortical spreading depression

Passive RFID-based Textile Touchpad

Reinforcement learning for improved UAV-based integrated access and backhaul operation

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Computer Vision Methods for Vehicle Type, Make and Model Classification

Bayesian receiver operating characteristic metric for linear classifiers

Gamified coding  
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Optimized wake-up scheme with bounded delay for energy-efficient MTC

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An approval of MPPT based on pv cell's simplified equivalent circuit during fast-shading conditions

Generalization of the K-SVD algorithm for minimization of  $\beta$ -divergence

Performance analysis of single-query 6-DoF camera pose estimation in self-driving setups

A perspective on wireless M-bus for smart electricity grids

Design and implementation of a multi-sensor newborn EEG seizure and background model with inter-channel field characterization

Input magnitude data setting in error-reduction algorithm for one-dimensional discrete phase retrieval problem

On the performance of narrow-band internet of things (NB-IoT) for delay-tolerant services

User Experience Study of 360° Music Videos on Computer Monitor and Virtual Reality Goggles

Socially inspired relaying and proactive mode selection in mmWave vehicular communications

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Convex Energy Optimization of Streaming Applications for MPSoCs

Deep Learning for Audio Signal Processing

Deep Reinforcement Learning for Financial Trading Using Price Trailing

Deep Temporal Logistic Bag-of-features for Forecasting High Frequency Limit Order Book Time Series

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Random Forest Oriented Fast QTBT Frame Partitioning

Time Difference of Arrival Estimation of Speech Signals Using Deep Neural Networks with Integrated Time-frequency Masking

Variance Preserving Initialization for Training Deep Neuromorphic Photonic Networks with Sinusoidal Activations

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Exploiting Multipath Terahertz Communications for Physical Layer Security in beyond 5G Networks

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Energy Detection-Based Spectrum Sensing over Fisher-Snedecor F Fading Channels

Improved Session Continuity in 5G NR with Joint Use of Multi-Connectivity and Guard Bandwidth

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The Direction Cosine Matrix Algorithm in Fixed-point: Implementation and Analysis

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Cascade of Boolean detector combinations

Efficient Solving of Markov Decision Processes on GPUs Using Parallelized Sparse Matrices

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An active learning method using clustering and committee-based sample selection for sound event classification

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Multichannel NMF for source separation with ambisonic signals

Time-frequency masking strategies for single-channel low-latency speech enhancement using neural networks

Using sequential information in polyphonic sound event detection

Skew-t Filter and Smoother with Improved Covariance Matrix Approximation

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Deep Learning Case Study for Automatic Bird Identification

Eigen Posture Based Fall Risk Assessment System Using Kinect

Identification of Parkinson's Disease Utilizing a Single Self-recorded 20-step Walking Test Acquired by Smartphone's Inertial Measurement Unit

The Accuracy of Atrial Fibrillation Detection from Wrist Photoplethysmography. A Study on Post-Operative Patients

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Anisotropic Spatiotemporal Regularization in Compressive Video Recovery by Adaptively Modeling the Residual Errors as Correlated Noise

Multi-source localization using a DOA Kernel based spatial covariance model and complex nonnegative matrix factorization

Data Clustering Based on Community Structure in Mutual k-Nearest Neighbor Graph

Performance Evaluation of UAV-Assisted mmWave Operation in Mobility-Enabled Urban Deployments

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Full-duplex radio technology for simultaneously detecting and preventing improvised explosive device activation

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360-Degree video streaming and its subjective quality

Detection and Classification of Acoustic Scenes and Events  
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An accumulative fusion architecture for discriminating people and vehicles using acoustic and seismic signals

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A software tool for studying the size and shape of human cardiomyocytes

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Which wavelength is the best for arterial pulse waveform extraction using laser speckle imaging?

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Efficiency of texture image filtering and its prediction

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Online tests of Kalman filter consistency

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Model selection for linear classifiers using Bayesian error estimation

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Similarity induced group sparsity for non-negative matrix factorisation

Adaptive Randomized Coordinate Descent for Sparse Systems  
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3D/inkjet-printed origami antennas for multi-direction RF harvesting

Additively manufactured multilayer high performance RF passive components on cellulose substrates for internet-of-things electronic circuits

A flexible hybrid printed RF energy harvester utilizing catalyst-based copper printing technologies for far-field RF energy harvesting applications

Ambient energy harvesting from a two-way talk radio for flexible wearable devices utilizing inkjet printing masking

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Lossy-to-lossless progressive coding of depth-maps

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On the kernel Extreme Learning Machine classifier

Lossless compression of regions-of-interest from retinal images

Classification of iPSC colony images using hierarchical strategies with support vector machines

Image database TID2013  
Peculiarities, results and perspectives

Analytical model in discrete time for cross-layer video communication over LTE

Digital correction of frequency response mismatches in 2-channel time-interleaved ADCs using adaptive I/Q signal processing

Non-negative tensor factorization models for Bayesian audio processing

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

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

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

GPU parallel implementation of the approximate K-SVD algorithm using OpenGL

Human action recognition in stereoscopic videos based on bag of features and disparity pyramids

Discriminant Bag of Words based representation for human action recognition

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Compressed video quality assessment with modified MSE

Data flow algorithms for processors with vector extensions

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A privacy preserving reputation system for participatory sensing applications

An Unsupervised Audio Segmentation Method Using Bayesian Information Criterion

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Data-driven stream mining systems for computer vision

Impact of received signal on self-interference channel estimation and achievable rates in in-band full-duplex transceivers

Implementation of a high-throughput low-latency polyphase channelizer on GPUs Design and Architectures for Signal and Image Processing 2008

Minimum Variance Extreme Learning Machine for human action recognition

On application of rational Discrete Short Time Fourier Transform in epileptic seizure classification

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Configurable, resource-optimized FFT architecture for OFDM communication

Programmable lowpower implementation of the HEVC Adaptive Loop Filter

Passive wireless antenna sensor for strain and crack sensing - Electromagnetic modeling, simulation, and testing

On the effect of network structure and synaptic mechanisms on sustained bursting activity

Multi-view action recognition based on action volumes, fuzzy distances and cluster discriminant analysis

Integration of dataflow-based heterogeneous multiprocessor scheduling techniques in GNU radio

An efficient GPU implementation of an arbitrary resampling polyphase channelizer

An image guided treatment platform for prostate cancer photodynamic therapy

A system-level design approach for dynamic resource coordination and energy optimization in sensor network platforms

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An R package for integrative analysis and management of gene expression microarray data

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Multiplicative update for fast optimization of information retrieval based neighbor embedding

Multi-view human action recognition: A survey

Parameterized core functional dataflow graphs and their application to design and implementation of wireless communication systems

Parameterized scheduling of topological patterns in signal processing dataflow graphs

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Rate-distortion based reversible watermarking for JPEG images with quality factors selection

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Efficient optimization for data visualization as an information retrieval task

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Effects of local structure of neuronal networks on spiking activity in silico

Emergence of global and local structural features during development of neuronal networks

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Quasi-static scheduling of CAL actor networks for reconfigurable video coding

Effects of structure on spontaneous activity in simulated neuronal networks

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Blind estimation of mixed noise parameters in images using robust regression curve fitting

Model-based precision analysis and optimization for digital signal processors

Modeling and optimization of dynamic signal processing in resource-aware sensor networks

On delay distribution in IEEE 802.11 wireless networks

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Topological patterns for scalable representation and analysis of dataflow graphs

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Computational modeling of growth in cortical cultures using the NETMORPH simulation tool

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Computational tools for assessing the properties of 2D neural cell cultures

Neural networks, cell cultures and some older work on data analysis.

Influences of digital band-pass filtering on the BCG waveform