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

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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

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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

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Low-latency Deep Clustering for Speech Separation

Open framework for mammography-based breast cancer risk assessment

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

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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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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

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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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360-Degree video streaming and its subjective quality

Detection and Classification of Acoustic Scenes and Events  
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Estimation and Mitigation of Channel Non-Reciprocity in Massive MIMO

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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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Rotation Invariant Texture Description Using Symmetric Dense Microblock Difference

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Efficiency of texture image filtering and its prediction

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Model selection for linear classifiers using Bayesian error estimation

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Collaborative filtering based on group coordinates for smoothing and directional sharpening

Enhancing class discrimination in Kernel Discriminant Analysis

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Low-complexity robust DOA estimation

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Similarity induced group sparsity for non-negative matrix factorisation

Adaptive Randomized Coordinate Descent for Sparse Systems  
Lasso and Greedy Algorithms

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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Lossless compression of regions-of-interest from retinal images

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

Image database TID2013  
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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 OpenCL

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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Radar micro-Doppler feature extraction using the Singular Value Decomposition

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

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

Automated design of networks of transport-triggered architecture processors using dynamic dataflow programs

Towards generic embedded multiprocessing for RVC-CAL dataflow programs

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

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

Representative class vector clustering-based discriminant analysis

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Efficient optimization for data visualization as an information retrieval task

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A co-simulator for networked signal processing applications

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Effects of structure on spontaneous activity in simulated neuronal networks

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

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

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On delay distribution in IEEE 802.11 wireless networks

Scheduling of CAL actor networks based on dynamic code analysis

Topological patterns for scalable representation and analysis of dataflow graphs

Vectorization and mapping of software defined radio applications on heterogeneous multi-processor platforms

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

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