

S3 Technologies

IEEE Dot Net | Java | Embedded | Image Processing | Android | Networking | VLSI | Application
Projects

IEEE 2017-2018 MATLAB PROJECTS

Image Processing
1. Fusion Similarity-Based Re-ranking for SAR Image Retrieval
2. Selective Convolutional Descriptor Aggregation for Fine-Grained Image Retrieval
3. Semi-supervised Online Multi-kernel Similarity Learning for Image Retrieval
4. Learning Short Binary Codes for Large-scale Image Retrieval
5. Retrieval Compensated Group Structured Sparsity for Image Super-Resolution
6. Unsupervised Visual Hashing with Semantic Assistant for Content-Based Image Retrieval
7. Image Piece Learning for Weakly Supervised Semantic Segmentation
8. Fast Unsupervised Bayesian Image Segmentation With Adaptive Spatial Regularisation
9. Disjunctive Normal Parametric Level Set With Application to Image Segmentation
10. Weighted Level Set Evolution Based on Local Edge Features for Medical Image Segmentation
11. Segmentation-Based Fine Registration of Very High Resolution Multi-temporal Images
12. Fast Multi region Image Segmentation Using Statistical Active Contours
13. Unsupervised Multi-Class Co-Segmentation via Joint-Cut Over L1 -Manifold Hyper-Graph of Discriminative Image Regions
14. Residual De-Convolutional Networks for Brain Electron Microscopy Image Segmentation
15. Segmentation Based Sparse Reconstruction of Optical Coherence Tomography Images
16. Integrated Localization and Recognition for Inshore Ships in Large Scene Remote Sensing Images
17. Airplane Recognition in Terra SAR-X Images via Scatter Cluster Extraction and Reweighted Sparse Representation

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Mobile: 9789339435.

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18. Automated Melanoma Recognition in Dermoscopy Images via Very Deep Residual Networks
19. Classification via Sparse Representation of Steerable Wavelet Frames on Grassmann Manifold: Application to Target Recognition in SAR Image
20. Turning Diffusion-Based Image Colorization Into Efficient Color Compression
21. Adaptive Spectral-Spatial Compression of Hyperspectral Image With Sparse Representation
22. Predictive Lossless Compression of Regions of Interest in Hyperspectral Images With No-Data Regions
23. Region-of-Interest Coding Based on Saliency Detection and Directional Wavelet for Remote Sensing Images
Video Processing
1. Error-Resilient Video Encoding Using Parallel Independent Signature Processing
2. Extended Selective Encryption of H.264/AVC (CABAC)- and HEVC-Encoded Video Streams
3. Three-Pronged Compensation and Hysteresis Thresholding for Moving Object Detection in Real-Time Video Surveillance
4. Moving Object Detection With a Freely Moving Camera via Background Motion Subtraction
5. Moving Object Detection Using Tensor-Based Low-Rank and Saliency Fused-Sparse Decomposition
6. Utility-Driven Adaptive Preprocessing for Screen Content Video Compression
7. A Joint Compression Scheme of Video Feature Descriptors and Visual Content
8. Coding Flow: Enable Video Coding for Video Stabilization
9. Geodesic Video Stabilization in Transformation Space
10. Real-Time Feature-Based Video Stabilization on FPGA
11. Video Stabilization for Strict Real-Time Applications

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12. A Global Approach to Fast Video Stabilization
Wireless Communication
1. Multiple Input Multiple Output OFDM With Index Modulation: Low Complexity Detector Design
2. Modulation Classification for MIMO-OFDM Signals via Approximate Bayesian Inference
3. Semi-Cognitive Radio Networks: A Novel Dynamic Spectrum Sharing Mechanism
4. QoS Driven Channel Selection Algorithm for Cognitive Radio Network: Multi-User Multi-Armed Bandit Approach
5. Proactive Spectrum Sharing for SWIPT in MIMO Cognitive Radio Systems Using Antenna Switching Technique
6. Transmit Pre-coding for Interference Exploitation in the Underlay Cognitive Radio Z-channel
7. A Novel Reservation-Based MAC Scheme for Distributed Cognitive Radio Networks
8. A Novel Spectrum Sensing for Cognitive Radio Networks with Noise Uncertainty
9. A Distributed Learning Automata Scheme for Spectrum Management in Self-Organized Cognitive Radio Network
10. An Efficient Precoder Design for Multiuser MIMO Cognitive Radio Networks With Interference Constraints
11. Space-Time Trellis-Coded OFDM Systems in Frequency-Selective Mobile Fading Channels
12. Coalition Formation and Spectrum Sharing of cooperative Spectrum Sensing Participants
13. Semi-Cognitive Radio Networks: A Novel Dynamic Spectrum Sharing Mechanism
14. Cross-Layer Rate Control and Resource Allocation in Spectrum-Sharing OFDMA Small-Cell Networks With Delay Constraints
15. Radio Access Network and Spectrum Sharing in Mobile Networks: A Stochastic Geometry Perspective

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16. Spectral-Efficient Quadrature Spatial Modulation Cooperative Amplify and Forward Spectrum-Sharing Systems
17. Effective Capacity of a Novel Spectrum-Band Selection Scheme in Spectrum-Sharing Networks
18. Bidirectional AF Relaying With Underlay Spectrum Sharing in Cognitive Radio Networks
19. Resource-Allocation Strategy for Multiuser Cognitive Radio Systems: Location-Aware Spectrum Access
20. Equal Interference Power Allocation for Efficient Shared Spectrum Resource Scheduling
21. Cognitive Coded Cooperation in Underlay Spectrum-Sharing Networks Under Interference Power Constraints
22. Maximum Energy Efficiency Tracking Circuits for Converter-Less Energy Harvesting Sensor Nodes
23. A Decision Making Technique to Optimize a Buildings Stock Energy Efficiency
24. Energy-Efficiency Maximization for Cooperative Spectrum Sensing in Cognitive Sensor Networks
25. Energy and Spectral Efficiency Tradeoff for Massive MIMO Systems With Transmit Antenna Selection
26. Energy and Spectral Efficiency of Cellular Networks With Discontinuous Transmission
27. Spectral Efficiency and Relay Energy Efficiency of Full-Duplex Relay Channel
28. Full-Duplex Regenerative Relaying and Energy-Efficiency Optimization Over Generalized Asymmetric Fading Channels
29. Spectral Efficiency and Energy Efficiency Optimization via Mode Selection for Spatial Modulation in MIMO Systems
30. Spectral and Energy Efficiencies in Full-Duplex Wireless Information and Power Transfer
31. Spectrum-Energy Efficiency Optimization for Downlink LTE-A for Heterogeneous Networks

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32. Differential Feedback of Geometrical Mean Decomposition Precoder for Time-Correlated MIMO Systems
33. Exploiting Spatial Channel Covariance for Hybrid Precoding in Massive MIMO Systems

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