

S3 Technologies

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

IEEE 2017-2018 MATLAB PROJECTS

S.No	IEEE MATLAB TITLES	DOMAIN
	DIGITAL IMAGE PROCESSING	
1	Image Haze Removal via Reference Retrieval and Scene Prior	IMAGE PROCESSING
2	Segmentation of Optic Disc from Fundus images	IMAGE PROCESSING
3	Active Contour Segmentation of Polyps in Capsule Endoscopic Images	IMAGE PROCESSING
4	Co-Saliency Detection for RGBD Images Based on Multi-Constraint Feature Matching and Cross Label Propagation.	IMAGE PROCESSING
5	Brain Tumors Classification from MR images using a Neural Network and the Central Moments.	IMAGE PROCESSING
6	A Region-Wised Medium Transmission Based Image Dehazing Method.	IMAGE PROCESSING
7	A Fusion Framework for Camouflaged Moving Foreground Detection in the Wavelet Domain.	IMAGE PROCESSING
8	Single-Image Super-Resolution Based on Rational Fractal Interpolation.	IMAGE PROCESSING
9	Skin Segmentation based on Improved Thresholding Method	IMAGE PROCESSING
10	Superpixel Hierarchy Blurriness-guided Unsharp Masking	IMAGE PROCESSING
11	Single image dehazing using local linear fusion.	IMAGE PROCESSING

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12	Simultaneously Discovering and Localizing Common Objects in Wild Images.	IMAGE PROCESSING
13	A Gabor Feature-based Quality Assessment Model for the Screen Content Images.	IMAGE PROCESSING
14	A Framework for Outdoor RGB Image Enhancement and Dehazing.	IMAGE PROCESSING
15	Image Dehazing Method by Fusing Weighted Near-Infrared Image.	IMAGE PROCESSING
16	Using multilayer random walker for image segmentation.	IMAGE PROCESSING
17	Automated Dental Image Analysis by Deep Learning on Small Dataset.	IMAGE PROCESSING
18	Towards Optimal Denoising of Image Contrast	IMAGE PROCESSING
19	Optimization of Object – Based Image Segmentation in Classifying Water Region	IMAGE PROCESSING
20	Performance Comparison and Analysis of Medical Image Segmentation Techniques	IMAGE PROCESSING
21	A Cascaded Convolutional Neural Network for Single Image Dehazing	IMAGE PROCESSING
22	An Accurate Multi-Row Panorama Generation Using Multi-Point Joint Stitching	IMAGE PROCESSING
23	A Trilateral Weighted Sparse Coding Scheme for Real-World Image Denoising	IMAGE PROCESSING
24	SCOM: Spatiotemporal Constrained Optimization for Salient Object Detection	IMAGE ROCESSING

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25	Robust Online Matrix Factorization for Dynamic Background Subtraction	IMAGE PROCESSING
26	FFDNet: Toward a Fast and Flexible Solution for CNN based Image Denoising	IMAGE PROCESSING
27	Learning a Patch Quality Comparator for Single Image Dehazing	IMAGE PROCESSING
28	A Naturalness Preserved Fast Dehazing Algorithm Using HSV Color Space	IMAGE PROCESSING
29	Learning a Single Convolutional Super-Resolution Network for Multiple Degradations	IMAGE PROCESSING
30	A Hybrid L1-L0 Layer Decomposition Model for Tone Mapping	IMAGE PROCESSING
31	Performance Comparison and Analysis of Medical Image Segmentation Techniques	IMAGE PROCESSING
32	An adaptive patch prior for single image blind deblurring	IMAGE PROCESSING
33	Graph-Based Blind Image Deblurring From a Single Photograph	IMAGE PROCESSING
34	Image Restoration based on Weighted Average of Multiple Blurred and Noisy Images	IMAGE PROCESSING
35	Improve Image De-blurring	IMAGE PROCESSING
36	Reconstruction of Single Image from Multiple Blurry Measured Images	IMAGE PROCESSING
37	Denoising of Hyperspectral Images Based on Principal Component Analysis and Adaptive Sparse Coding	IMAGE PROCESSING
38	Image Denoising Method by Endorsement of Neighborhood Pixels	IMAGE PROCESSING

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39	Approximate DCT Image Compression using Inexact Computing	IMAGE PROCESSING
40	Color Image Coding Based on Block Truncation Coding Using Quadtree Segmentation	IMAGE PROCESSING
41	Enhancement of DCT-based Image Compression using Trigonometric Functions	IMAGE PROCESSING
42	Real-time Video Enhancement Using Graphical Processing Units	IMAGE PROCESSING
43	Dual Auto encoder Network for Retinex-based Low-Light Image Enhancement	IMAGE PROCESSING
44	An Improved Palmprint Image Recognition Algorithm Via Image Restoration	IMAGE PROCESSING
45	Automatic Vehicle License Plate Recognition System based on Image Processing and Template Matching Approach	IMAGE PROCESSING
46	Implementation of Human Action Recognition using Image Parsing Techniques	IMAGE PROCESSING
47	Multiscale Image Segmentation using Normalized Cuts in Image Recognition on Satellite Images	IMAGE PROCESSING
48	Region Based Adaptive Binarization for Optical Character Recognition Purposes	IMAGE PROCESSING
49	A Blind Watermarking Technique using Redundant Wavelet Transform for Copyright Protection	IMAGE PROCESSING
50	A Robust Image Watermarking Technique with an Optimal DCT-Psychovisual Threshold	IMAGE PROCESSING
	COMMUNICATION	
1	Energy-Efficient D2D Communication Based Retransmission Scheme for Reliable Multicast in Wireless Cellular Network	COMMUNICATION
2	Resource Allocation for Multiple Device-to-Device Cluster Multicast Communications Underlay Cellular Networks	COMMUNICATION

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3	Arena Function: A Framework for Computing Capacity Bounds in Wireless Networks	COMMUNICATION
4	Spectrum Efficient MIMO-FBMC System using Filter Output Truncation	COMMUNICATION
5	A New Filter-Bank Multicarrier System: The Linearly Processed FBMC System	COMMUNICATION
6	Capacity of Wireless Networks with Directed Energy Links in the Presence of Obstacles	COMMUNICATION
7	Advanced Blanking Nonlinearity for Mitigating Impulsive Interference in OFDM Systems	COMMUNICATION
8	Joint Optimization of Spectrum Sensing and Transmit Power in Energy Harvesting-based Cognitive Radio Networks	COMMUNICATION
9	Throughput Maximization for Multi-Hop Decode-and-Forward Relay Network With Wireless Energy Harvesting	COMMUNICATION
10	Spectrum Sensing: Enhanced Energy Detection Technique Based on Noise Measurement	COMMUNICATION
11	A Random Access Protocol for Pilot Allocation in Crowded Massive MIMO Systems	COMMUNICATION
	SIGNAL PROCESSING	
1	A Novel R Peak Detection Method For Mobile Environments	SIGNAL PROCESSING
2	Deep Factorization For Speech Signal	SIGNAL PROCESSING
3	A Real-Time Qrs Complex Detector Based On Discrete Wavelet Transform And Adaptive Threshold	SIGNAL PROCESSING

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4	Real Time Super Resolution Using Non-Linear Signal Processing	SIGNAL PROCESSING
5	Fast Randomization For Distributed Low-Bitrate Coding Of Speech And Audio	SIGNAL PROCESSING
6	Fast Qrs Detection And ECG Compression Based On Signal Structural Analysis	SIGNAL PROCESSING
7	Wavelet Transform And Signal Denoising Using Wavelet Method	SIGNAL PROCESSING
8	High Sensitivity Experimental Qrs Detector	SIGNAL PROCESSING
9	A Wavelet-Nlms Algorithm Implemented In Fbss For Acoustic Noise Reduction And Speech Enhancement	SIGNAL PROCESSING
10	Damped Dreamlet Representation For Exploration Seismic Data Interpolation And Denoising	SIGNAL PROCESSING
11	Using Visual Speech Information In Masking Methods For Audio Speaker Separation	SIGNAL PROCESSING
12	New Adaptive Thresholding -Based ECG R-Peak Detection Technique	SIGNAL PROCESSING
13	Infant Cry Signal Detection, Pattern Extraction And Recognition	SIGNAL PROCESSING
14	Speech Processing Algorithm For Isolated Words Recognition	SIGNAL PROCESSING
15	Real Time Super Resolution Using Non-Linear Signal Processing	SIGNAL PROCESSING

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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
18. Automated Melanoma Recognition in Dermoscopy Images via Very Deep Residual Networks

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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
12. A Global Approach to Fast Video Stabilization

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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
16. Spectral-Efficient Quadrature Spatial Modulation Cooperative Amplify and Forward Spectrum-Sharing Systems

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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
32. Differential Feedback of Geometrical Mean Decomposition Precoder for Time-Correlated MIMO Systems

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33. Exploiting Spatial Channel Covariance for Hybrid Precoding in Massive MIMO Systems