

## MATLAB IEEE 2015 PROJECTS

S.NO	MATLAB IEEE 2015 PROJECT TITLES	YEAR
1	Contributions to Automatic Target Recognition Systems for Underwater Mine Classification	IEEE 2015
2	High-Precision, Permanently Stable, Modulated Hopping Discrete Fourier Transform	IEEE 2015
3	A Joint QRS Detection and Data Compression Scheme for Wearable Sensors	IEEE 2015
4	Time–Frequency Joint Sparse Channel Estimation for MIMO-OFDM Systems	IEEE 2015
5	Performance of OFDM Systems With Best-m Feedback, Scheduling, and Delays for Uniformly Correlated Sub channels	IEEE 2015
6	Authenticating Using Secret Key in Digital Video Watermarking Using 3-Level DWT	IEEE 2015
7	Hybrid MIMO-OFDM System with Application to Image Transmission	IEEE 2015
8	Robust and high capacity watermarking for image based on DWT-SVD	IEEE 2015
9	Power Efficient Scattered Pilot Channel Estimation for FBMC/OQAM	IEEE 2015
10	Performance Analysis of Fast Tracking Equalization for SC-FDMA and OFDM systems under multipath fading environment	IEEE 2015
11	On Demand SINR based Scheduling Algorithm (ODSSA) for Mobile Uplink Communication in LTE Networks	IEEE 2015
12	Hybrid Compression of Hyperspectral Images Based on PCA With Pre-Encoding Discriminant Information	IEEE 2015
13	Secure Reversible Image Data Hiding over Encrypted Domain via Key Modulation	IEEE 2015
14	Context-Based Predictor Blending for Lossless Color Image Compression	IEEE 2015
15	Reversible Data Hiding in Encrypted Image with distributed source encoding	IEEE 2015

16	Nighttime Visibility Analysis and Estimation Method in the Presence of Dense Fog	IEEE 2015
17	Using Visual Rhythms for Detecting Video-based Facial Spoof Attacks	IEEE 2015
18	Bayesian Fusion of Multi-Band Images	IEEE 2015
19	Registration of Images With N-Fold Dihedral Blur	IEEE 2015
20	A Novel SURE-Based Criterion for Parametric PSF Estimation	IEEE 2015
21	Histogram-Based Locality-Preserving Contrast Enhancement	IEEE 2015
22	ICI Self-Cancellation with Cosine Windowing in OFDM transmitters Over Fast Time-Varying Channels	IEEE 2015
23	Convergence Constrained Multiuser Transmitter-Receiver Optimization in Single-Carrier FDMA	IEEE 2015
24	Beamforming for Multiuser MIMO-OFDM Interference Channels With Multipath Diversity	IEEE 2015
25	An Efficient MRF Embedded Level Set Method for Image Segmentation	IEEE 2015
26	Robust Clutter Suppression and Moving Target Imaging Approach for Multichannel in Azimuth High-Resolution and Wide-Swath Synthetic Aperture Radar	IEEE 2015
27	Optimizing Template for Lookup-Table Inverse Half toning using Elitist Genetic Algorithm	IEEE 2015
28	An Improved PFA With Aperture Accommodation for Wide field Spotlight SAR Imaging	IEEE 2015
29	A New Framework for SAR Multitemporal Data RGB Representation: Rationale and Products	IEEE 2015
30	Indicator Cokriging-Based Subpixel Mapping Without Prior Spatial Structure Information	IEEE 2015
31	Contributions to Automatic Target Recognition Systems for Underwater Mine Classification	IEEE 2015
32	Features, Color Spaces, and Boosting: New Insights on Semantic Classification of Remote Sensing Images	IEEE 2015

33	Continuous One-Way Detection of Available Bandwidth Changes for Video Streaming Over Best-Effort Networks	IEEE 2015
34	Compressed-Domain Ship Detection on Space borne Optical Image Using Deep Neural Network and Extreme Learning Machine	IEEE 2015
35	An Intelligent Monitoring System for Natural Gas Odorization	IEEE 2015
36	Feature Matching With an Adaptive Optical Sensor in a Ground Target Tracking System	IEEE 2015
37	A Novel Colorless FPLD Packaged With TO-Can for 30-Gbit/s Preamplified 64-QAM-OFDM Transmission	IEEE 2015
38	Quantum Spread Spectrum Multiple Access	IEEE 2015
39	New RLL Decoding Algorithm for Multiple Candidates in Visible Light Communication	IEEE 2015
40	Multi-Tap Equalization for Performance Improvement in Optical Fast OFDM Systems	IEEE 2015
41	A Multistage CPE Scheme Based on Crossed Constellation Transformation for M-QA	IEEE 2015
42	Efficient Chromatic Dispersion Precompensation for Coherent Optical OFDM	IEEE 2015
43	Gaussian Conditional Random Fields for Aggregation of Operational Aerosol Retrievals	IEEE 2015
44	Robust Clutter Suppression and Moving Target Imaging Approach for Multichannel in Azimuth High-Resolution and Wide-Swath Synthetic Aperture Radar	IEEE 2015
45	Capabilities of BIOMASS Tomography for Investigating Tropical Forests	IEEE 2015
46	Soil Moisture Estimation Under Tropical Forests Using UHF Radar Polarimetry	IEEE 2015
47	A Novel Range Grating Lobe Suppression Method Based on the Stepped-Frequency SAR Image	IEEE 2015
48	Multi-Task Bayesian Compressive Sensing Exploiting Intra-Task Dependency	IEEE 2015
49	Joint Power Splitting and Antenna Selection in Energy Harvesting Relay Channels	IEEE 2015
50	Compressive Sensing and Reception for MIMO-OFDM Based Cognitive Radio	IEEE 2015

51	Improved Lip Contour Extraction For Visual Speech Recognition	IEEE 2015
52	Recognition of Genuine Smiles	IEEE 2015
53	Spatio-Temporal Flame Modelling and Dynamic Texture Analysis for Automatic Video-Based Fire Detection	IEEE 2015
54	DietCam: Multi-View Food Recognition Using a Multi-Kernel SVM	IEEE 2015
55	Spectrum Allocation in Cognitive Radio Networks using Multi-Objective Differential Evolution Algorithm	IEEE 2015
56	Multiview Alignment Hashing for Efficient Image Search	
57	Learning to Rank Image Tags With Limited Training Examples	
58	Learning Fingerprint Reconstruction: From Minutiae to Image	
59	Detection and Rectification of Distorted Fingerprints	
60	Automatic Face Naming by Learning Discriminative Affinity Matrices From Weakly Labeled Images	
61	Approximation and Compression with Sparse Orthonormal Transforms	
62	Adaptive Regularization With the Structure Tensor	
63	Accurate Vessel Segmentation With Constrained B-Snake	
64	Structured Sparse Priors for Image Classification	
65	Enhancement of Textural Differences Based on Morphological Component Analysis	
66	Learning Compact Feature Descriptor and Adaptive Matching Framework for Face AT&SIP001 - Recognition	
67	Video Deraining and Desnowing Using Temporal Correlation and Low-Rank Matrix Completion	
68	Spectral Laplace-Beltrami Wavelets With Applications in Medical Images	

69	Transfer Learning Improves Supervised Image Segmentation Across Imaging Protocols	
70	Nonparametric Hemodynamic Deconvolution of fMRI Using Homomorphic Filtering	
71	Brain Metastases Detection Methods in Magnetic Resonance Imaging	IEEE 2016
72	Two-Way OFDM-Based Nonlinear Amplify-and-Forward Relay Systems	IEEE 2016
73	Robust Cell Detection of Histopathological Brain Tumor Images Using Sparse Reconstruction and Adaptive Dictionary	IEEE 2016
74	A Novel Approach to Segment Skin Lesions in Dermoscopic Images Based on a Deformable Model	IEEE 2016
75	Lifetime and Energy Hole Evolution Analysis in Data-Gathering Wireless Sensor Networks	IEEE 2016
76	Hybrid Modulation Scheme for a High-Frequency AC-Link Inverter	IEEE 2016
77	A Capacitor Voltage-Balancing Method for Nested Neutral Point Clamped (NNPC) Inverter	IEEE 2016
78	Design and Development of an Efficient Multilevel DC/AC Traction Inverter for Railway	IEEE 2016
79	Modeling and Analysis of Class EF and Class E/F Inverters With Series-Tuned Resonant Networks	IEEE 2016
80	Dynamic Cluster Head Selection Method for Wireless Sensor Network	IEEE 2016

81	Texture Classification Using Dense Micro-Block Difference	IEEE 2016
82	Three-Level PWM Floating H-Bridge Sine wave Power Inverter for High-Voltage and High-Efficiency Applications	IEEE 2016
83	Delay-Dependent Stability Control for Power System With Multiple Time-Delays	IEEE 2016
84	An Efficient SVD-Based Method for Image Denoising	IEEE 2016
85	Unsupervised SAR Image Change Detection Based on SIFT Key points and Region Information	IEEE 2016
86	A Micro-GA Embedded PSO Feature Selection Approach to Intelligent Facial Emotion Recognition	IEEE 2016
87	Unsupervised Deep Learning Applied to Breast Density Segmentation and Mammographic Risk Scoring	IEEE 2016
88	An Empirical Study for PCA- and LDA-Based Feature Reduction for Gas Identification	IEEE 2016
89	Analyzing the Effect of JPEG Compression on Local Variance of Image Intensity	IEEE 2016
90	Amplify-and-Forward Relay Sharing for Both Primary and Cognitive Users	IEEE 2016
91	Design and Implementation of a Novel Multilevel DC–AC Inverter	IEEE 2016
92	High Performance Personalized Heartbeat Classification Model for Long-Term ECG Signal	IEEE 2016
93	Fast Appearance Modeling for Automatic Primary Video Object Segmentation	IEEE 2016
94	On the Permanence of EEG Signals for Biometric Recognition	IEEE 2016
95	A New Cascaded Switched-Capacitor Multilevel Inverter Based on Improved Series–Parallel Conversion With Less Number of Components	IEEE 2016

96	Analysis and Design of Modified Half-Bridge Series-Resonant Inverter With DC-Link Neutral-Point-Clamped Cell	IEEE 2016
97	Spectrum Sensing Performance in Cognitive Radio Networks With Multiple Primary Users	IEEE 2016
98	Reversible Data Hiding in Encrypted Images y Reversible Image Transformation	IEEE 2016
99	Self-Deployment Of Mobile Sensors To Achieve Target Coverage In The Presence Of Obstacles	IEEE 2016
100	Energy-Efficient Infrastructure Sensor Network for Ad Hoc Cognitive Radio Network	IEEE 2016
101	A Novel Zero-Voltage-Switching Push–Pull High-Frequency-Link Single-Phase Inverter	IEEE 2016
102	Combining Generative and Discriminative Representation Learning for Lung CT Analysis with Convolutional Restricted Boltzmann Machines	IEEE 2016
103	A Novel Three-Phase Current Source Rectifier With Delta-Type Input Connection to Reduce the Device Conduction Loss	IEEE 2016
104	Reliability Evaluation of Large Scale Battery Energy Storage Systems	IEEE 2016
105	Economic dispatch of power systems with virtual power plant based interval optimization method	IEEE 2016
106	DBR-MAC: A Depth-Based Routing Aware MAC Protocol for Data Collection in Underwater Acoustic Sensor Networks	IEEE 2016
107	DietCam: Multiview Food Recognition Using a Multikernel SVM	IEEE 2016
108	Unsupervised Deep Feature Extraction for Remote Sensing Image Classification	IEEE 2016
109	Robust Blur Kernel Estimation for License Plate Images From Fast Moving Vehicles	IEEE 2016

110	Lung Pattern Classification for Interstitial Lung Diseases Using a Deep Convolutional Neural Network	IEEE 2016
111	Energy-Efficient Clustering Using Correlation and Random Update Based on Data Change ate for Wireless Sensor Networks	IEEE 2016
112	On the Energy Efficiency and Effective Throughput Tradeoff of Fading Channels	IEEE 2016
113	Machine Learning Methods for Binary and Multiclass Classification of Melanoma Thickness From Dermoscopic Images	IEEE 2016
114	An Efficient Bayesian PAPR Reduction Method for OFDM-Based Massive MIMO Systems-MATLAB COMMUNICATION	IEEE 2016
115	Domain Specific Learning for Newborn Face Recognition	IEEE 2016
116	Self-Deployment of Randomly Scattered Mobile Sensors to Achieve Barrier Coverage	IEEE 2016
117	Improved Tampering Localization in Digital Image Forensics Based on Maximal Entropy Random Walk	IEEE 2016
118	Improving Saliency Detection Via Multiple Kernel Boosting and Adaptive Fusion	IEEE 2016
119	An equalized global graph model-based approach for multi-camera object tracking	IEEE 2016
120	An Accurate ECG-Based Transportation Safety Drowsiness Detection Scheme	IEEE 2016
121	Development and Comparison of an Improved Incremental Conductance Algorithm for Tracking the MPP of a Solar PV Panel	IEEE 2016
122	Epileptic Seizure Prediction Based on Multivariate Statistical Process Control of Heart	IEEE 2016
123	A Novel Approach for Denoising and Enhancement of Extremely Low-light Video	IEEE 2016



124	Recognizing Common CT Imaging Signs of Lung Diseases Through a New Feature Selection Method Based on Fisher Criterion and Genetic Optimization	IEEE 2016
125	Automatic Change Analysis in Satellite Images Using Binary Descriptors and Lloyd–Max Quantization	IEEE 2016
126	Spatiotemporal Saliency Detection for Video Sequences Based on Random Walk With Restart	IEEE 2016
127	An Optimal-Distance-Based Transmission Strategy for Lifetime Maximization of Wireless Sensor Networks	
128	Influences of Power Electronic Converters on Voltage-Current Behaviors During Faults in DGUs-Part II: Photovoltaic Systems	
129	Successive Interference Mitigation in Multiuser MIMO Interference Channels	
130	Flying-Capacitor Based Hybrid LLC Converters with Input Voltage Auto-Balance Ability for High Voltage Applications	
131	Image Super-Resolution Based on Structure-Modulated Sparse Representation	
132	Dynamic Channel Assignment for Wireless Sensor Networks: A Regret Matching Based Approach	
133	Noninvasive Real-Time Automated Skin Lesion Analysis System for Melanoma Early Detection and Prevention	
134	Acoustic features for the identification of coronary artery disease	
135	Enhancement of Textural Differences Based on Morphological Component Analysis	
136	Cognitive and Energy Harvesting-Based D2D Communication in Cellular Networks: Stochastic Geometry Modeling and Analysis	

137	Hierarchical Graphical Models for Simultaneous Tracking and Recognition in Wide-Area Scenes	
138	Quasi Y-Source Boost DC-DC Converter	
139	Background Subtraction Based on Low-Rank and Structured Sparse Decomposition	
140	Optimal Channel Switching Over Gaussian Channels Under Average Power and Cost Constraints	
141	Word Segmentation Method for Handwritten Documents based on Structured Learning	
142	Mutual dependency of features in multimodal biometric systems	
143	Implementation of Wavelet Based Robust Differential Control for Electric Vehicle Application	
144	Learning Compact Feature Descriptor and Adaptive Matching Framework for Face Recognition	
145	Automatic localization and segmentation of optic disc in fundus image using morphology and level set	
146	Adaptive Image Denoising by Targeted Databases	
147	Sorted Consecutive Local Binary Pattern for Texture Classification	
148	Impacts of Deployment Strategies on Localization Performance in Underwater Acoustic Sensor Networks	
149	A Novel Image Classification Algorithm Using Over complete Wavelet Transforms	
150	Neighborhood Discriminant Hashing for Large-Scale Image Retrieval	

151	Joint Image Registration and Fusion for Panchromatic and Multispectral Images	
152	Ground-Based Cloud Detection Using Automatic Graph Cut	
153	Distributed Compressed Sensing off the Grid	
154	GaN Devices in Resonant LLC Converters: System-level considerations	
155	Multilevel voltage source inverter with optimized usage of bidirectional switches	
156	Topological Modeling and Classification of Mammographic Micro calcification Clusters	
157	A Contrast Adjustment Thresholding Method for Surface Defect Detection Based on Mesoscopy	
158	Particle Swarm Optimization-Based Clustering by Preventing Residual Nodes in Wireless Sensor Networks	
159	Improving Dermoscopy Image Classification Using Color Constancy	