

# FINAL YEAR PROJECTS

## IEEE PROJECTS 2016 – 2017

### MATLAB PROJECTS

S.NO	PROJECT CODE	TITLE OF THE PAPER	YEAR
1	MAT1601	A Security-Enhanced Alignment-Free Fuzzy Vault-Based Fingerprint Cryptosystem Using Pair-Polar Minutiae Structures	2016
2	MAT1602	Distance-Based Encryption: How to Embed Fuzziness in Biometric-Based Encryption	2016
3	MAT1603	Fingerprint Liveness Detection From Single Image Using Low-Level Features and Shape Analysis	2016
4	MAT1604	Fingerprint Liveness Detection Using Convolutional Neural Networks	2016
5	MAT1605	Iris Recognition Based on Human-Interpretable Features	2016
6	MAT1606	Suspecting Less and Doing Better: New Insights on Palmprint Identification for Faster and More Accurate Matching	2016
7	MAT1607	Aging Face Recognition: A Hierarchical Learning Model Based on Local Patterns Selection	2016
8	MAT1608	Complementary Cohort Strategy for Multimodal Face Pair Matching	2016
9	MAT1609	Facial Sketch Synthesis Using Two-dimensional Direct Combined Model-based Face-Specific Markov Network	2016
10	MAT1610	Class-wise Sparse and Collaborative Patch Representation for Face Recognition	2016
11	MAT1611	Local-Gravity-Face (LG-face) for Illumination-Invariant and Heterogeneous Face Recognition	2016
12	MAT1612	Robust Point Set Matching for Partial Face Recognition	2016
13	MAT1613	Discriminant Incoherent Component Analysis	2016
14	MAT1614	Dynamic Facial Expression Recognition With Atlas Construction and Sparse Representation	2016
15	MAT1615	A Feature Learning and Object Recognition Framework for Underwater Fish	2016

		Images	
16	MAT1616	Feature and Region Selection for Visual Learning	2016
17	MAT1617	Contrast Driven Elastica for Image Segmentation	2016
18	MAT1618	Interactive Image Segmentation Using Adaptive Constraint Propagation	2016
19	MAT1619	A Patch-Based Approach for the Segmentation of Pathologies: Application to Glioma Labelling	2016
20	MAT1620	An Automatic Learning-Based Framework for Robust Nucleus Segmentation	2016
21	MAT1621	Computer Aided Theragnosis Using Quantitative Ultrasound Spectroscopy and Maximum Mean Discrepancy in Locally Advanced Breast Cancer	2016
22	MAT1622	On Combining Multiple-Instance Learning and Active Learning for Computer-Aided Detection of Tuberculosis	2016
23	MAT1623	Real-Time Automatic Artery Segmentation, Reconstruction and Registration for Ultrasound-Guided Regional Anaesthesia of the Femoral Nerve	2016
24	MAT1624	Recognizing Focal Liver Lesions in CEUS With Dynamically Trained Latent Structured Models	2016
25	MAT1625	Red Lesion Detection Using Dynamic Shape Features for Diabetic Retinopathy Screening	2016
26	MAT1626	Image Deblurring via Enhanced Low-Rank Prior	2016
27	MAT1627	Adaptive Pairing Reversible Watermarking	2016
28	MAT1628	Adaptive Steganalysis Based on Embedding Probabilities of Pixels	2016
29	MAT1629	Content-Adaptive Steganography by Minimizing Statistical Detectability	2016
30	MAT1630	Game Theory and Adaptive Steganography	2016
31	MAT1631	Antipodally Invariant Metrics for Fast Regression-Based Super-Resolution	2016
32	MAT1632	FRESH-FRI-Based Single-Image Super-Resolution Algorithm	2016
33	MAT1633	CCR: Clustering and Collaborative Representation for Fast Single Image Super-Resolution	2016
34	MAT1634	Consistent Coding Scheme for Single-Image Super-Resolution Via Independent Dictionaries	2016
35	MAT1635	Single-Image Super-Resolution Using Active-Sampling Gaussian Process Regression	2016
36	MAT1636	Super-Interpolation With Edge-Oriented-Based Mapping Kernels for Low Complex 2x Upscaling	2016
37	MAT1637	A Completely Blind Video Integrity Oracle	2016
38	MAT1638	An Approach to Streaming Video Segmentation With Sub-Optimal Low-Rank Decomposition	2016
39	MAT1639	Patch-Based Video Denoising With Optical Flow Estimation	2016

40	MAT1640	Surveillance Video Synopsis via Scaling Down Objects	2016
41	MAT1641	Blind Quality Assessment of Tone-Mapped Images Via Analysis of Information, Naturalness, and Structure	2016
42	MAT1642	CASAIR: Content and Shape-Aware Image Retargeting and Its Applications	2016
43	MAT1643	Contrast Enhancement by Nonlinear Diffusion Filtering	2016
44	MAT1644	Cross-View Action Recognition via Transferable Dictionary Learning	2016
45	MAT1645	Deep Ranking for Person Re-Identification via Joint Representation Learning	2016
46	MAT1646	Dense and Sparse Reconstruction Error Based Saliency Descriptor	2016
47	MAT1647	Depth Estimation Using a Sliding Camera	2016
48	MAT1648	Detection of Moving Objects Using Fuzzy Color Difference Histogram Based Background Subtraction	2016
49	MAT1649	Effective Active Skeleton Representation for Low Latency Human Action Recognition	2016
50	MAT1650	Fast and Provably Accurate Bilateral Filtering	2016
51	MAT1651	Human Visual System-Based Saliency Detection for High Dynamic Range Content	2016
52	MAT1652	Illuminant-Based Transformed Spaces for Image Forensics	2016
53	MAT1653	Weakly Supervised Fine-Grained Categorization With Part-Based Image Representation	2016
54	MAT1654	Learn Sparse Dictionaries for Edit Propagation	2016
55	MAT1655	Learning of Multimodal Representations With Random Walks on the Click Graph	2016
56	MAT1656	Misaligned Image Integration With Local Linear Model	2016
57	MAT1657	Multiscale Edge Detection Using a Finite Element Framework for Hexagonal Pixel-Based Images	2016
58	MAT1658	NonconvexNonsmooth Low Rank Minimization via Iteratively Reweighted Nuclear Norm	2016
59	MAT1659	Non-Local Auto-Encoder With Collaborative Stabilization for Image Restoration	2016
60	MAT1660	One-Class Writer-Independent Offline Signature Verification Using Feature Dissimilarity Thresholding	2016
61	MAT1661	Perceptual Visual Security Index Based on Edge and Texture Similarities	2016
62	MAT1662	Robust Image Hashing With Ring Partition and Invariant Vector Distance	2016
63	MAT1663	Salient Region Detection via High-Dimensional Color Transform and Local Spatial Support	2016
64	MAT1664	Simple to Complex Transfer Learning for Action Recognition	2016
65	MAT1665	Tasking on Natural Statistics of Infrared Images	2016
66	MAT1666	Texture-Independent Long-Term Tracking Using Virtual Corners	2016

67	MAT1667	Two-Level QR Code for Private Message Sharing and Document Authentication	2016
68	MAT1668	Robust Blur Kernel Estimation for License Plate Images From Fast Moving Vehicles	2016
69	MAT1669	Vehicle License Plate Recognition Based on Extremal Regions and Restricted Boltzmann Machines	2016
70	MAT1570	A Feature-Enriched Completely Blind Image Quality Evaluator	2015
71	MAT1571	A No-Reference Texture Regularity Metric Based on Visual Saliency	2015
72	MAT1572	A Probabilistic Approach for Color Correction in Image Mosaicking Applications	2015
73	MAT1573	Boundary Detection Using Double-Opponency and Spatial Sparseness Constraint	2015
74	MAT1574	Combining Left and Right Palmprint Images for More Accurate Personal Identification	2015
75	MAT1575	Face Recognition across Non-Uniform Motion Blur, Illumination, and Pose	2015
76	MAT1576	Face Sketch Synthesis via Sparse Representation-Based Greedy Search	2015
77	MAT1577	Fractal Analysis for Reduced Reference Image Quality Assessment	2015
78	MAT1578	Image Denoising by Exploring External and Internal Correlations	2015
79	MAT1579	Image Super-Resolution Based on Structure-Modulated Sparse Representation	2015
80	MAT1580	Multifocus Image Fusion Based on NSCT and Focused Area Detection	2015
81	MAT1581	Pareto-Depth for Multiple-Query Image Retrieval	2015
82	MAT1582	Revealing the Trace of High-Quality JPEG Compression through Quantization Noise Analysis	2015
83	MAT1583	Reversible Image Data Hiding with Contrast Enhancement	2015
84	MAT1584	Robust Representation and Recognition of Facial Emotions Using Extreme Sparse Learning	2015
85	MAT1585	Steganography Using Reversible Texture Synthesis	2015
86	MAT1586	Variable-Length Signature for Near-Duplicate Image Matching	2015
87	MAT1487	A New Secure Image Transmission Technique via Secret- Fragment-Visible Mosaic Images by Nearly Reversible Color Transformations	2014
88	MAT1488	An Efficient Parallel Approach for Sclera Vein Recognition	2014
89	MAT1489	BRINT: Binary Rotation Invariant and Noise Tolerant Texture Classification	2014
90	MAT1490	Designing an Efficient Image Encryption-Then-Compression System via Prediction Error Clustering and Random Permutation	2014
91	MAT1491	Digital Image Sharing by Diverse Image Media	2014
92	MAT1492	Dual-Geometric Neighbor Embedding for Image Super Resolution With Sparse Tensor	2014
93	MAT1493	Exposing Digital Image Forgeries by Illumination Color Classification	2014

94	MAT1494	Fingerprint Compression Based on Sparse Representation	2014
95	MAT1495	Hyperspectral Image Classification Through Bilayer Graph-Based Learning	2014
96	MAT1496	Images as Occlusions of Textures: A Framework for Segmentation	2014
97	MAT1497	Low-Rank Neighbor Embedding for Single Image Super-Resolution	2014
98	MAT1498	Mining Weakly Labeled Web Facial Images for Search-Based Face Annotation	2014
99	MAT1499	Phase-Based Binarization of Ancient Document Images: Model and Applications	2014
100	MAT1400	Progressive Image Denoising Through Hybrid Graph Laplacian Regularization: A Unified Framework	2014
101	MAT1401	Scene Text Recognition in Mobile Applications by Character Descriptor and Structure Configuration	2014
102	MAT1402	A Unified Data Embedding and Scrambling Method	2014
103	MAT1403	Characterness: An Indicator of Text in the Wild	2014