



JP INFOTECH

SOFTWARE DEVELOPMENT & RESEARCH DIVISION

www.jpinfotech.org

(0)9952649690

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Landmark : Next to Kotak Mahendra Bank.

Pondicherry Office : JP INFOTECH , #45 ,
Kamaraj Salai, Thattanchavady, Puducherry
Landmark : Next to VVP Nagar Arch.

jpinfotechprojects@gmail.com

2016 - 2017 MATLAB IEEE FINAL YEAR Projects @ JP INFOTECH

S.NO	Project Code	IEEE 2016-17 MATLAB Project Titles	Domain/Sub-Domain	Lang/Year
1	JPM1601	A Security-Enhanced Alignment-Free Fuzzy Vault-Based Fingerprint Cryptosystem Using Pair-Polar Minutiae Structures	Image Processing (Biometrics)	MATLAB/2016
2	JPM1602	Distance-Based Encryption: How to Embed Fuzziness in Biometric-Based Encryption	Image Processing (Biometrics)	MATLAB/2016
3	JPM1603	Fingerprint Liveness Detection From Single Image Using Low-Level Features and Shape Analysis	Image Processing (Biometrics)	MATLAB/2016
4	JPM1604	Fingerprint Liveness Detection Using Convolutional Neural Networks	Image Processing (Biometrics)	MATLAB/2016
5	JPM1605	Iris Recognition Based on Human-Interpretable Features	Image Processing (Biometrics)	MATLAB/2016
6	JPM1606	Suspecting Less and Doing Better: New Insights on Palmprint Identification for Faster and More Accurate Matching	Image Processing (Biometrics)	MATLAB/2016
7	JPM1607	Aging Face Recognition: A Hierarchical Learning Model Based on Local Patterns Selection	Image Processing (Face Recognition)	MATLAB/2016
8	JPM1608	Complementary Cohort Strategy for Multimodal Face Pair Matching	Image Processing (Face Recognition)	MATLAB/2016
9	JPM1609	Facial Sketch Synthesis Using Two-dimensional Direct Combined Model-based Face-Specific Markov Network	Image Processing (Face Recognition)	MATLAB/2016
10	JPM1610	Class-wise Sparse and Collaborative Patch Representation for Face Recognition	Image Processing (Face Recognition)	MATLAB/2016



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11	JPM1611	Local-Gravity-Face (<i>LG-face</i>) for Illumination-Invariant and Heterogeneous Face Recognition	Image Processing (Face Recognition)	MATLAB/2016
12	JPM1612	Robust Point Set Matching for Partial Face Recognition	Image Processing (Face Recognition)	MATLAB/2016
13	JPM1613	Discriminant Incoherent Component Analysis	Image Processing (Facial Expression Recognition)	MATLAB/2016
14	JPM1614	Dynamic Facial Expression Recognition With Atlas Construction and Sparse Representation	Image Processing (Facial Expression Recognition)	MATLAB/2016
15	JPM1615	A Feature Learning and Object Recognition Framework for Underwater Fish Images	Image Processing (Feature Detection)	MATLAB/2016
16	JPM1616	Feature and Region Selection for Visual Learning	Image Processing (Feature Detection)	MATLAB/2016
17	JPM1617	Contrast Driven Elastica for Image Segmentation	Image Processing (Image Segmentation)	MATLAB/2016
18	JPM1618	Interactive Image Segmentation Using Adaptive Constraint Propagation	Image Processing (Image Segmentation)	MATLAB/2016
19	JPM1619	A Patch-Based Approach for the Segmentation of Pathologies: Application to Glioma Labelling	Medical Image Processing	MATLAB/2016
20	JPM1620	An Automatic Learning-Based Framework for Robust Nucleus Segmentation	Medical Image Processing	MATLAB/2016
21	JPM1621	Computer Aided Theragnosis Using Quantitative Ultrasound Spectroscopy and Maximum Mean Discrepancy in Locally Advanced Breast Cancer	Medical Image Processing	MATLAB/2016



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22	JPM1622	On Combining Multiple-Instance Learning and Active Learning for Computer-Aided Detection of Tuberculosis	Medical Image Processing	MATLAB/2016
23	JPM1623	Real-Time Automatic Artery Segmentation, Reconstruction and Registration for Ultrasound-Guided Regional Anaesthesia of the Femoral Nerve	Medical Image Processing	MATLAB/2016
24	JPM1624	Recognizing Focal Liver Lesions in CEUS With Dynamically Trained Latent Structured Models	Medical Image Processing	MATLAB/2016
25	JPM1625	Red Lesion Detection Using Dynamic Shape Features for Diabetic Retinopathy Screening	Medical Image Processing	MATLAB/2016
26	JPM1626	Image Deblurring via Enhanced Low-Rank Prior	Image Processing	MATLAB/2016
27	JPM1627	Adaptive Pairing Reversible Watermarking	Image Processing (Image Watermarking)	MATLAB/2016
28	JPM1628	Adaptive Steganalysis Based on Embedding Probabilities of Pixels	Image Processing (Steganography)	MATLAB/2016
29	JPM1629	Content-Adaptive Steganography by Minimizing Statistical Detectability	Image Processing (Steganography)	MATLAB/2016
30	JPM1630	Game Theory and Adaptive Steganography	Image Processing (Steganography)	MATLAB/2016
31	JPM1631	Antipodally Invariant Metrics for Fast Regression-Based Super-Resolution	Image Processing (Super Resolution)	MATLAB/2016
32	JPM1632	FRESH—FRI-Based Single-Image Super-Resolution Algorithm	Image Processing (Super Resolution)	MATLAB/2016



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33	JPM1633	CCR: Clustering and Collaborative Representation for Fast Single Image Super-Resolution	Image Processing (Super Resolution)	MATLAB/2016
34	JPM1634	Consistent Coding Scheme for Single-Image Super-Resolution Via Independent Dictionaries	Image Processing (Super Resolution)	MATLAB/2016
35	JPM1635	Single-Image Super-Resolution Using Active-Sampling Gaussian Process Regression	Image Processing (Super Resolution)	MATLAB/2016
36	JPM1636	Super-Interpolation With Edge-Oriented-Based Mapping Kernels for Low Complex $2 \times$ Upscaling	Image Processing (Super Resolution)	MATLAB/2016
37	JPM1637	A Completely Blind Video Integrity Oracle	Image Processing (Video Processing)	MATLAB/2016
38	JPM1638	An Approach to Streaming Video Segmentation With Sub-Optimal Low-Rank Decomposition	Image Processing (Video Processing)	MATLAB/2016
39	JPM1639	Patch-Based Video Denoising With Optical Flow Estimation	Image Processing (Video Processing)	MATLAB/2016
40	JPM1640	Surveillance Video Synopsis via Scaling Down Objects	Image Processing (Video Processing)	MATLAB/2016
41	JPM1641	Blind Quality Assessment of Tone-Mapped Images Via Analysis of Information, Naturalness, and Structure	Image Processing (Image Quality Assessment)	MATLAB/2016
42	JPM1642	CASAIR: Content and Shape-Aware Image Retargeting and Its Applications	Image Processing	MATLAB/2016
43	JPM1643	Contrast Enhancement by Nonlinear Diffusion Filtering	Image Processing	MATLAB/2016



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44	JPM1644	Cross-View Action Recognition via Transferable Dictionary Learning	Image Processing (Action Recognition)	MATLAB/2016
45	JPM1645	Deep Ranking for Person Re-Identification via Joint Representation Learning	Image Processing	MATLAB/2016
46	JPM1646	Dense and Sparse Reconstruction Error Based Saliency Descriptor	Image Processing	MATLAB/2016
47	JPM1647	Depth Estimation Using a Sliding Camera	Image Processing	MATLAB/2016
48	JPM1648	Detection of Moving Objects Using Fuzzy Color Difference Histogram Based Background Subtraction	Image Processing	MATLAB/2016
49	JPM1649	Effective Active Skeleton Representation for Low Latency Human Action Recognition	Image Processing (Action Recognition)	MATLAB/2016
50	JPM1650	Fast and Provably Accurate Bilateral Filtering	Image Processing	MATLAB/2016
51	JPM1651	Human Visual System-Based Saliency Detection for High Dynamic Range Content	Image Processing	MATLAB/2016
52	JPM1652	Illuminant-Based Transformed Spaces for Image Forensics	Image Processing	MATLAB/2016
53	JPM1653	Weakly Supervised Fine-Grained Categorization With Part-Based Image Representation	Image Processing	MATLAB/2016
54	JPM1654	Learn Sparse Dictionaries for Edit Propagation	Image Processing	MATLAB/2016



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55	JPM1655	Learning of Multimodal Representations With Random Walks on the Click Graph	Image Processing	MATLAB/2016
56	JPM1656	Misaligned Image Integration With Local Linear Model	Image Processing	MATLAB/2016
57	JPM1657	Multiscale Edge Detection Using a Finite Element Framework for Hexagonal Pixel-Based Images	Image Processing	MATLAB/2016
58	JPM1658	Nonconvex Nonsmooth Low Rank Minimization via Iteratively Reweighted Nuclear Norm	Image Processing	MATLAB/2016
59	JPM1659	Non-Local Auto-Encoder With Collaborative Stabilization for Image Restoration	Image Processing	MATLAB/2016
60	JPM1660	One-Class Writer-Independent Offline Signature Verification Using Feature Dissimilarity Thresholding	Image Processing (Signature Verification)	MATLAB/2016
61	JPM1661	Perceptual Visual Security Index Based on Edge and Texture Similarities	Image Processing	MATLAB/2016
62	JPM1662	Robust Image Hashing With Ring Partition and Invariant Vector Distance	Image Processing	MATLAB/2016
63	JPM1663	Salient Region Detection via High-Dimensional Color Transform and Local Spatial Support	Image Processing	MATLAB/2016
64	JPM1664	Simple to Complex Transfer Learning for Action Recognition	Image Processing (Action Recognition)	MATLAB/2016
65	JPM1665	Tasking on Natural Statistics of Infrared Images	Image Processing	MATLAB/2016



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66	JPM1666	Texture-Independent Long-Term Tracking Using Virtual Corners	Image Processing	MATLAB/2016
67	JPM1667	Two-Level QR Code for Private Message Sharing and Document Authentication	Image Processing	MATLAB/2016
68	JPM1668	Robust Blur Kernel Estimation for License Plate Images From Fast Moving Vehicles	Image Processing (License Plate Detection)	MATLAB/2016
69	JPM1669	Vehicle License Plate Recognition Based on Extremal Regions and Restricted Boltzmann Machines	Image Processing (License Plate Detection)	MATLAB/2016

More titles will be updated soon. For updated titles and other details visit: www.jpinfotech.org or www.jpinfotech.blogspot.com

PROJECT SUPPORT TO REGISTERED STUDENTS:

- 1) IEEE Base paper.
- 2) Abstract Document.
- 3) Future Enhancement (based on Requirement).
- 4) Modified Title / Modified Abstract (based on Requirement).
- 5) Complete Source Code.
- 6) Final Report / Document



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Landmark : Next to VVP Nagar Arch.

jpinfotechprojects@gmail.com

(Document consists of basic contents of about Abstract, Bibliography, Conclusion, Implementation, I/P & O/P Design, Introduction, Literature Survey, Organisation Profile, Screen Shots, Software Environment, System Analysis, System Design, System Specification, System Study, System Testing)

(The chapter System Design consists of 5 diagrams: Data Flow, Use Case, Sequence, Class, Activity Diagram)

7) Review PPTs and Documents.

8) How to Run execution help file.

9) MATLAB Software Package (MATLAB, How to install help file).

10) International Conference / International Journal Publication based on your project.

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- Number 1 Project Master in Pondicherry/Puducherry & Chennai.
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- For the academic year **2016- 2017**, we have Signed MoU with 15 Engineering Colleges in all over South India to Conduct International Conferences in academic year 2016 – 2017.



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Landmark : Next to VVP Nagar Arch.

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 - “SKR Engineering College”
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 - “Muthayammal Arts and Science College”
 - “Sri Raaja Raajan College of Engineering and Technology”
 - “Latha Mathavan Engineering College”
 - “SKR engineering college”
 - “Dr Pauls Engineering College”
 - “Jaya Engineering College”
 - “Jain College of Engineering”



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Kamaraj Salai, Thattanchavady, Puducherry
Landmark : Next to VVP Nagar Arch.**

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For any queries Contact:

R.JAYAPRAKASH BE,MBA,M.Tech., (Ph.D.)

Managing Director

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MOBILE: (0)9952649690

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Ashok Pillar, Chennai – 83. Landmark: Next to Kotak Mahendra Bank / Bharath
Scans.

Landline: (044) - 43012642 / Mobile: (0)9952649690

Pondicherry Office: JP INFOTECH, #45, Kamaraj Salai, Thattanchavady,
Puducherry – 9. Landmark: Opp. To Thattanchavady Industrial Estate & Next to
VVP Nagar Arch.

Landline: (0413) - 4300535 / Mobile: (0)9952649690



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