



A RESEARCH & TRAINING DIVISION OF FABSYS TECHNOLOGIES PVT.LTD.

QUALITY SUPPORT FOR YOUR FINAL YEAR PROJECT DEVELOPMENT & RESEARCH WORK

MATLAB TOPICS

RESEARCH AND CONFERENCE ORIENTED TITLES

IEEE 2016

For: M.E., M.Tech., B.E., B.Tech, MCA, Mphil, MS

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- TECHNOLOGY TRAINING AND
- PLACEMENT SERVICES

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| IMAGE PROCESSING | | | |
|---------------------------------------|------|---|---------|
| DOMAIN | SINO | TOPIC | CODE |
| IMAGE PROCESSING TOOL USED: MATLAB | 1 | Image Zoom Completion | MIP1601 |
| | 2 | Super-resolution of Multi-Observed RGB-D Images | MIP1602 |
| | 3 | Analyzing the Effect of JPEG Compression on Local Variance of Image Intensity | MIP1603 |
| | 4 | Adaptive Pairing Reversible Watermarking | MIP1604 |
| | 5 | Multi-view Object Extraction with Fractional Boundaries | MIP1605 |
| | 6 | Contrast Invariant Interest Point Detection by Zero-Norm LoG Filter | MIP1606 |
| | 7 | Super-resolution of Multi-Observed RGB-D Images based on Nonlocal Regression and Total Variation | MIP1607 |
| | 8 | Single Image Super-resolution from Transformed Self-Exemplars | MIP1608 |
| | 9 | Multiplicative Noise and Blur Removal by Frame let Decomposition and l1-based L-curve Method | MIP1609 |
| | 10 | Shapes From Pixels | MIP1610 |
| | 11 | A DWT and LSB Method using for Image Steganography | MIP0151 |
| | 12 | Robust Online Multiobject Tracking With Data Association and Track Management | MIP1524 |
| | 13 | A robust region-adaptive dual image watermarking technique | MIP1526 |
| | 14 | Multi-input single output nonlinear blind source separation | MIP1527 |
| | 15 | Data Detection using SMVQ and Noise reduction | MIP1528 |
| | 16 | New video anchor person detection by short clustering | MIP1529 |
| | 17 | Mixed Noise Removal by Weighted Encoding with Sparse Nonlocal Regularization | MIP1530 |
| | 18 | Fast Synopsis for Moving Objects Using Compressed Video | MIP1531 |
| | 19 | Removing Photography Artifacts using Gradient Projection and Flash-Exposure Sampling | MIP1532 |
| | 20 | Video Enhancement Using Per-Pixel Virtual Exposures | MIP1533 |
| | 21 | Detection and Inpainting of Facial Wrinkles Using Texture Orientation Fields and Markov Random Field Modeling | MIP1538 |
| | 22 | Video Segmentation Descriptors for Event Recognition | MIP1539 |
| | 23 | Hierarchical Super-Resolution-Based Inpainting | MIP1546 |
| | 24 | An optimized mapping strategy for parallel image processing | MIP1540 |

IMAGE RETRIEVAL

| SINO | TOPIC | CODE |
|------|--|---------|
| 1 | Multi-label Dictionary Learning for Image Annotation | MIR1601 |
| 2 | Multichannel Decoded Local Binary Patterns for Content Based Image Retrieval | MIR1602 |
| 3 | Moving Target Analysis in ISAR Image Sequences With a Multiframe Marked Point Process Model | MIP1542 |
| 4 | Progressive Image Denoising Through Hybrid Graph Laplacian Regularization: A Unified Framework | MIP1537 |
| 5 | Gradient histogram estimation and preservation for texture enhanced image denoising | MIP1543 |

IMAGE SEGMENTATION

| SINO | TOPIC | CODE |
|------|--|---------|
| 1 | Patch-Based Video Denoising With Optical Flow Estimation | MIS1601 |
| 2 | Content and Shape-Aware Image Retargeting and Its Applications | MIS1602 |
| 3 | Hierarchical Image Saliency Detection on Extended CSSD | MIS1603 |
| 4 | Robust Blur Kernel Estimation for License Plate Images from Fast Moving Vehicles | MIS1604 |
| 5 | Fuzzy C-Means Clustering With Local Information and Kernel Metric for Image Segmentation | MIP1523 |
| 6 | Images As Occlusions Of Textures: A Framework For Segmentation | MIP0152 |

BIOMETRICS

| DOMAIN | SINO | TOPIC | CODE |
|---------------------------------|------|--|---------|
| BIOMETRICS TOOL USED: MATLAB | 1 | Robust Point Set Matching for Partial Face Recognition | MBI1601 |
| | 2 | Text Detection, Tracking and Recognition in Video: A Comprehensive Survey | MBI1602 |
| | 3 | Close Human Interaction Recognition Using Patch-Aware Models | MBI1603 |
| | 4 | Simple to Complex Transfer Learning for Action Recognition | MBI1604 |
| | 5 | Face-recognition Based Attendance Management | MIP0153 |
| | 6 | Emotion detection using facial expressions | MIP0154 |
| | 7 | Image Set based Collaborative Representation for Face Recognition | MIP1536 |
| | 8 | Robust and Effective Component-Based Banknote Recognition for the Blind | MIP1551 |
| | 9 | Face Recognition based Door Access System | MIP1550 |
| | 10 | Android mobile based Finger Print Recognition | MIP1547 |
| | 11 | Hidden markov model based face recognition | MIP1549 |
| | 12 | Image Feature Extraction Techniques and Their Applications for CBIR and Biometrics Systems | MIP1535 |

STEGANOGRAPHY

| SINO | TOPIC | CODE |
|------|--|---------|
| 1 | Lossless Compression of JPEG Coded Photo Collections | MST1601 |
| 2 | Secure Reversible Image Data Hiding over Encrypted Domain via Key Modulation | MST1602 |
| 3 | High Capacity Reversible Data Hiding in Encrypted Images by Patch-Level Sparse Representation | MST1603 |
| 4 | Content-Adaptive Steganography by Minimizing Statistical Detectability | MST1604 |
| 5 | Securing SIFT: Privacy-preserving Outsourcing Computation of Feature Extractions over Encrypted Image Data | MST1605 |
| 6 | HIDING PRIVACY INFORMATION IN VIDEO SURVEILLANCE SYSTEM | MIP1544 |
| 7 | A Novel Joint Data-Hiding and Compression Scheme Based on SMVQ and Image Inpainting | MIP1541 |
| 8 | Tampering Detection in Compressed Digital Video Using Watermarking | MIP1525 |

MEDICAL IMAGE PROCESSING

| SINO | TOPIC | CODE |
|------|---|---------|
| 1 | A Discriminatively Trained Fully Connected Conditional Random Field Model for Blood Vessel Segmentation in Fundus Images | MMI1601 |
| 2 | Red Lesion Detection using Dynamic Shape Features for Diabetic Retinopathy Screening | MMI1602 |
| 3 | Brain Tumor Segmentation using Convolutional Neural Networks in MRI Images | MMI1603 |
| 4 | Estimating CT Image from MRI Data Using Structured Random Forest and Auto-context Model | MMI1604 |
| 5 | Enhancing K-means and Kernelized Fuzzy C-means Clustering with Cluster Center Initialization in Segmenting MRI brain images | MIP1534 |
| 6 | Simple methods for segmentation and measurement of diabetic retinopathy lesions in retinal fundus images | MBE1514 |
| 7 | Diagnosis of skin cancer using morphology in image processing | MBE1515 |
| 8 | Screening of lungs region to detect Tuberculosis | MBE1516 |
| 9 | Automatic Tuberculosis Screening Using Chest Radiographs | MBE1517 |
| 10 | An automated decision-support system for non-proliferative diabetic retinopathy disease based on MAs and Has detection | MBE1511 |
| 11 | Tumor Detection Using Genetic Algorithm | MBE1512 |

| NEURAL NETWORKS | | |
|------------------------|---|-------------|
| SINO | TOPIC | CODE |
| 1 | Large-scale fingerprint identification on GPU (Wavelet transform) | MIP1548 |
| 2 | Internal Fault Classification using Artificial Neural Network | MIP1545 |
| 3 | Handwritten Numeral Pattern Recognition Using Neural Network | MIP0155 |
| 4 | Intelligent Brain Hemorrhage Diagnosis Using Artificial Neural Networks | MIP0131 |

| WIRELESS COMMUNICATION | | |
|-------------------------------|---|-------------|
| SINO | TOPIC | CODE |
| 1 | Optimum coordination of directional overcurrent relays using PSo-TVAC algorithm | MWC1601 |
| 2 | Secure Data communication and Cryptography based on DNA based Message Encoding | MWCO156 |
| 3 | Wireless Information and Power Transfer in Multiuser OFDM Systems | MWCO157 |
| 4 | Energy-Efficient Resource Allocation in Single-Cell OFDMA Systems: Multi-Objective Approach | MWC1511 |
| 5 | Clustering resource allocation for Dense femtocell in a two tier OFDMA Network | MWCO141 |
| 6 | PAPR Analysis and Mitigation Algorithms for Beamforming MIMO OFDM Systems | MWC1403 |

| HARDWARE BASED (EMBEDDED WITH MATLAB) | | |
|--|--|-------------|
| SINO | TOPIC | CODE |
| 1 | Electronic Painting Brush | MHW1601 |
| 2 | Bank Note Recognition and intimation syatem for blind people | MHW1602 |