

## MATLAB Projects

### *I. MATLAB based INFORMATION/MULTIMEDIA FORENSICS*

1. Illuminant -based Transformed Spaces for Image Forensics. **(IEEE 2016)**
2. Block-based discrete wavelet transform singular value decomposition image watermarking scheme using human visual system characteristics. **(IEEE 2016)**
3. Steganalysis Features for Content-Adaptive JPEG Steganography. **(IEEE 2016)**
4. Automatic Constraint Detection for Layout Regularization (Blueprint). **(IEEE 2016)**

### *II. MATLAB based NEURAL NETWORKS & REMOTE SENSING*

1. Robust Blur Kernel Estimation for License Plate Images from Fast Moving Vehicles. **(IEEE 2016)**
2. A High-Efficiency and High-Speed Gain Intervention Refinement Filter for Haze Removal. **(IEEE 2016)**
3. Automatic Shadow Detection and Removal from a Single Image. **(IEEE 2016)**
4. Polarimetric SAR Change Detection with the Complex Hotelling–Lawley Trace Statistic. **(IEEE 2016)**
5. Edge Collapse-Based Dehazing Algorithm for Visibility Restoration in Real Scenes. **(IEEE 2016)**

### *III. MATLAB based BIOMEDICAL IMAGING*

1. Novel Accurate and Fast Optic Disc Detection in Retinal Images with Vessel Distribution and Directional Characteristics. **(IEEE 2016)**



*IEEE 2016*

2. Red Lesion Detection Using Dynamic Shape Features for Diabetic Retinopathy Screening. **(IEEE 2016)**
3. Automatic Hookworm Detection in Wireless Capsule Endoscopy Images. **(IEEE 2016)**
4. Robust Cell Detection of Histopathological Brain Tumor Images Using Sparse Reconstruction and Adaptive Dictionary Selection. **(IEEE 2016)**
5. Automated Diagnosis of Glaucoma Using Empirical Wavelet Transform and Correntropy Features Extracted from Fundus Images. **(IEEE 2016)**
6. Identification and Evaluation on Diabetic Foot Injury by Computer Vision. **(IEEE 2016)**
7. MIGS-GPU: Microarray Image Gridding and Segmentation on the GPU. **(IEEE 2016)**

#### *IV. MATLAB based DIGITAL IMAGE PROCESSING*

1. Statistical Hypothesis Detector for Abnormal Event Detection in Crowded Scenes. **(IEEE 2016)**
2. Adherent Raindrop Modeling, Detection and Removal. **(IEEE 2016)**

#### *V. MATLAB based BIO-METRIC AUTHENTICATION*

1. Automatic Ear Landmark Localization, Segmentation & Pose Classification in Range Images. **(IEEE 2016)**
2. Fingerprint Liveness Detection using Convolutional Neural Networks. **(IEEE 2016)**
3. Enhanced Human Iris Recognition System based on Procedure of Authentication System. **(IEEE 2016)**
4. User identification system based on finger-vein patterns using convolutional neural network. **(IEEE 2016)**
5. Palmprint Recognition Using Neighboring Direction Indicator. **(IEEE 2016)**

## *VI. MATLAB based EMBEDDED SYSTEM*

1. Visual-Attention Based background Modelling for Detecting Infrequently Moving Objects. **(IEEE 2016)**
2. Static and Dynamic Hand Gesture Recognition in Depth Data Using Dynamic Time Warping. **(IEEE 2016)**
3. Sub Markov Random Walk for Image Segmentation. **(IEEE 2016)**
4. Smartphone-based fatigue detection system using progressive locating method. **(IEEE 2016)**

## *VII. MATLAB based SURVEILLANCE AND SECURITY SYSTEM*

1. Real Time Vehicle Detection with Foreground based cascade Classifier. **(IEEE 2016)**
2. Visual Object Tracking Performance Measures Revisited. **(IEEE 2016)**
3. Daytime Preceding Vehicle Brake Light Detection Using Monocular Vision. **(IEEE 2016)**
4. Red Eye: Preventing Collisions Caused by Red-Light Running Scooters with Smart phones. **(IEEE 2016)**
5. Parallel algorithm implementation for multi-object tracking and surveillance. **(IEEE 2016)**
6. Onboard fuzzy logic approach to active fire detection in Brazilian amazon forest. **(IEEE 2016)**

## *VIII. MATLAB based IMAGE ANALYSIS APPLICATIONS*

1. Automatic Crack Detection and Measurement Based on Image Analysis. **(IEEE 2016)**
2. Robotic Disease Detection in Greenhouses: Combined Detection of Powdery Mildew and Tomato Spotted Wilt Virus. **(IEEE 2016)**
3. Text-Attentional Convolutional Neural Network for Scene Text Detection. **(IEEE 2016)**
4. Conversion of English Text- To- Speech (TTS) using Indian Speech Signal. **(IEEE 2016)**
5. Fake Currency Detection System using Texture and Shape Characteristics. **(IEEE 2016)**
6. Dynamic Facial Expression Recognition with Atlas Construction and Sparse Representation. **(IEEE 2016)**