

# **MATLAB Projects**

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

1. The Switching Fractional Order Chaotic System and Its Application to Image Encryption. **(IEEE2017)**
2. Image Forgery Localization via Integrating Tampering Possibility Maps. **(IEEE2017)**
3. Con-Text: Text Detection for Fine-grained Object Classification. **(IEEE2017)**
4. Digital Video Watermarking Techniques: A Review. **(IEEE)**

## ***II. MATLAB based REMOTE SENSING & GIS***

1. Ship Detection from Optical Satellite Images Based on Saliency Segmentation and Structure-LBP Feature. **(IEEE2017)**
2. Change Detection Based on Gabor Wavelet Features for Very High Resolution Remote Sensing Images. **(IEEE2017)**
3. Accurate Shadow Detection From High-Resolution Satellite Images. **(IEEE2017)**

## ***III. MATLAB based BIO MEDICAL IMAGING***

1. Retinal Disease Screening through Local Binary Patterns. **(IEEE2017)**
2. Leukocytes Classification and Segmentation in Microscopic Blood Smear: A Resource-Aware Healthcare Service in Smart Cities. **(IEEE2017)**
3. Retinal Fundus Image Analysis for Diagnosis of Glaucoma: A Comprehensive Survey **(IEEE2017)**
4. MIGS-GPU: Microarray Image Gridding and Segmentation on the GPU. **(IEEE2017)**

## ***IV. MATLAB based BIOMETRIC AUTHENTICATION***

1. Towards More Accurate Iris Recognition using Cross-Spectral Matching. **(IEEE2017)**
2. Facial Expression Recognition Utilizing Local Direction-based Robust Features and Deep Belief Network. **(IEEE2017)**

3. Face detection with a Viola–Jones based hybrid network. **(IEEE2017)**
4. A Review on Palm Print Recognition Techniques. **(IEEE)**

#### ***V. MATLAB based IMAGE AUGMENTATION PROCESS***

1. Leave-one-out Kernel Optimization for Shadow Detection and Removal. **(IEEE2017)**
2. Affine Non-local Means Image Denoising. **(IEEE2017)**
3. LIME: Low-light Image Enhancement via Illumination Map Estimation. **(IEEE2017)**
4. Multi-Image Deblurring using Complementary Sets of Fluttering Patterns. **(IEEE2017)**
5. Image Enhancement Using Morphological Contrast Enhancement for Video Based Image Analysis. **(IEEE2017)**

#### ***VII. MATLAB based SELF-DEFENCE AND DIGITAL SURVEILLANCE (SDDS)***

1. *K*-means based multiple objects tracking with long-term occlusion handling. **(IEEE2017)**
2. Universal Multimode Background Subtraction. **(IEEE2017)**
3. Visual-Attention Based Background Modeling for Detecting Infrequently Moving Objects. **(IEEE2017)**
4. Automatic Refinement Strategies for Manual Initialization of Object Trackers. **(IEEE2017)**

#### ***VIII. MATLAB based HUMAN MACHINE INTERFACE***

1. Real-Time Bidirectional Traffic Flow Parameter Estimation From Aerial Videos. **(IEEE2017)**
2. Fingerprint based ATM. **(IEEE)**
3. Real Time Static and Dynamic Hand Gesture Recognition System with SURF Algorithm. **(IEEE)**
4. Integration of Speech, Image & Text Processing Technologies. **(IEEE)**

### *IX. MATLAB based SMART FARMING*

1. Automatic Weed Detection And Smart Herbicide Spray Robot For Corn Fields.(**IEEE**)
2. Review on Soil Classification Methods. (**IEEE**)

### *X. MATLAB based INDUSTRIAL AUTOMATION AND CONTROL*

1. Crack Detection and Parameters Estimation on Road Images: Review. (**IEEE**)
2. EBSCam: Background Subtraction for Ubiquitous Computing. (**IEEE2017**)
3. Real-time multi-feature based fire flame detection in video. (**IEEE**)