



## Matlab Projects

## Real Time Live IEEE Projects

### I. INFORMATION / MULTIMEDIA FORENSICS

1. Copy-Paste Detection Based on a SIFT Marked Graph Feature Vector. (IEEE 2017).
2. Optimised blind image watermarking method based on firefly algorithm in DWT-QR transform domain. scheme using human visual system characteristics(IEEE 2017).
3. The Switching Fractional Order Chaotic System and Its Application to Image Encryption. (IEEE 2017).
4. Image Forgery Localization via Integrating Tampering Possibility Maps.(IEEE 2017).
5. An Image-Based Approach to Detection of Fake Coins.(IEEE 2017).
6. Con-Text: Text Detection for Fine-grained Object Classification.(IEEE 2017).

### II. MATLAB Based FORESIGHT NETWORK (REMOTE SENSING)

1. Integrated Localization and Recognition for Inshore Ships in Large Scene Remote Sensing Images. (IEEE 2017).
2. Single image dehazing by latent region segmentation based transmission estimation and weighted L1-norm regularisation. (IEEE 2017).
3. Inshore Ship Detection in Remote Sensing Images via Weighted Pose Voting.(IEEE 2017).
4. Change Detection Based on Gabor Wavelet Features for Very High Resolution Remote Sensing Images.(IEEE 2017).
5. Accurate Shadow Detection From High Resolution Satellite Images.(IEEE 2017).
6. River Extraction From High-Resolution SAR Images Combining a Structural Feature Set and Mathematical Morphology.(IEEE 2017).
7. A Region-Wised Medium Transmission Based Image Dehazing Method.(IEEE 2017).

### III. MATLAB Based BIOMEDICAL IMAGING

1. Reworking Multilabel Brain Tumor Segmentation (IEEE 2017).



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2. MIGS-GPU: Microarray Image Gridding and Segmentation on the GPU.(IEEE 2017).
3. Retinal Disease Screening through Local Binary Patterns. (IEEE 2017).
4. Fast unsupervised Bayesian image segmentation with adaptive spatial regularisation. (IEEE 2017).
5. Leukocytes Classification and Segmentation in Microscopic Blood Smear: A Resource-Aware Healthcare Service in Smart Cities. (IEEE 2017).
6. An Approach to Detect Bone Tumor using Comparative Analysis of Segmentation Techniques. (IEEE 2017).
7. Retinal Fundus Image Analysis for Diagnosis of Glaucoma: A Comprehensive Survey (IEEE 2017).
8. Automated Melanoma Recognition in Dermoscopy Images via Very Deep Residual Networks. (IEEE 2017).

### IV. MATLAB Based BIOMETRIC AUTHENTICATION

1. Automatic ear detection and feature extraction using Geometric Morphometrics and convolutional neural networks (IEEE 2017).
2. System for multimodal biometric recognition based on finger knuckle and finger vein using feature-level fusion and k-support vector machine classifier. (IEEE 2017).
3. Facial Age Estimation with Age Difference (IEEE 2017).
4. Effective statistical-based and dynamic fingerprint preprocessing technique. (IEEE 2017).
5. Towards More Accurate Iris Recognition using Cross-Spectral Matching (IEEE 2017).
6. Facial Expression Recognition Utilizing Local Direction-based Robust Features and Deep Belief Network. (IEEE 2017).
7. Face detection with a Viola-Jones based hybrid network (IEEE 2017).
8. Fingerprint liveness detection using local texture features. (IEEE 2017).



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### V. MATLAB Based IMAGE AUGMENTATION PROCESS

1. A Hierarchical Approach for Rain or Snow Removing in A Single Color Image. (IEEE 2017).
2. Leave-one-out Kernel Optimization for Shadow Detection and Removal. (IEEE 2017).
3. Affine Non-local Means Image Denoising(IEEE 2017).
4. LIME: Low-light Image Enhancement via Illumination Map Estimation (IEEE 2017).
5. Multi-Image Deblurring using Complementary Sets of Fluttering Patterns. (IEEE 2017).
6. Image Enhancement Using Morphological Contrast Enhancement for Video Based Image Analysis.(IEEE 2017).
7. Fusion-based Variational Image Dehazing(IEEE 2017).

### VI.MATLAB basedINTELLIGENT VEHICLE/TRANSPORT ENFORCEMENT SYSTEM

1. Riesz Fractional Based Model for Enhancing License Plate Detection and Recognition (IEEE 2017).
2. Automatic Detection of Red Light Running Using Vehicular Cameras. (IEEE 2017).
3. A Low-Complexity Vision-Based System for Real-Time Traffic Monitoring. (IEEE 2017).
4. Nighttime Vehicle Detection Based on Bio-Inspired Image Enhancement and Weighted Score-Level Feature Fusion. (IEEE 2017).
5. Counting vehicles in urban traffic scenes using foreground time-spatial images. (IEEE 2017).

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

1. Dual Deep Network for Visual Tracking (IEEE 2017).
2. Towards Abnormal Trajectory and Event Detection in Video Surveillance. (IEEE 2017).
3. K-means based multiple objects tracking with long-term occlusion handling.(IEEE 2017).
4. Universal Multimode Background Subtraction (IEEE 2017).



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5. Anomaly Detection in Traffic Scenes via Spatial-Aware Motion Reconstruction. (IEEE 2017).

### VIII. MATLAB Based HUMAN MACHINE INTERFACE

1. Metaphoric Hand Gestures for Orientation Aware VR Object Manipulation With an Egocentric Viewpoint. (IEEE 2017).
2. A Finger Vein Image-Based Personal Identification System With Self-Adaptive Illuminance Control. (IEEE 2017).
3. A Robust and Efficient Approach to License Plate Detection (IEEE 2017).
4. Towards Detection of Bus Driver Fatigue Based on Robust Visual Analysis of Eye State. (IEEE 2017).
5. Real-Time Bidirectional Traffic Flow Parameter Estimation From Aerial Videos. (IEEE 2017).

### IX. MATLAB based SMART FARMING

1. Automatic Fruit Quality Inspection System (IEEE 2017).
2. Plant Disease Detection using Digital Image Processing and GSM. (IEEE 2017).
3. Automatic Weed Detection And Smart Herbicide Spray Robot For Corn Fields (IEEE 2017).

### X. MATLAB Based INDUSTRIAL AUTOMATION AND CONTROL

1. Crack Detection and Parameters Estimation on Road Images: Review (IEEE 2017).
2. EBSCam: Background Subtraction for Ubiquitous Computing. (IEEE 2017).
3. Real-time multi-feature based fire flame detection in video (IEEE 2017).
4. Deep Multitask Learning for Railway Track Inspection. (IEEE 2017).