MATLAB Projects

I.   MATLAB based on INFORMATION FORENSICS AND SECURITY

1. *Key binding biometric based remote user authentication scheme using smart cards. (IEEE2018)*

2. *Secure and Robust Fragile Watermarking Scheme for Medical Images. (IEEE2018)*

3. *Fast detection method of quick response code based on Run-length coding. (IEEE2018)*

4. *Secure Binary Image Steganography based on Fused Distortion Measurement. (IEEE2018)*

5. *Efficient Encrypted Images Filtering and Transform Coding with Walsh-Hadamard Transform and Parallelization. (IEEE2018)*

6. *Scene Text Detection using Super pixel based Stroke Feature Transform and Deep Learning based Region Classification. (IEEE2018)*

II.   MATLAB based on GEOGRAPHIC INFORMATION SYSTEM

1. *Single Image Haze Removal Method Using Conditional Random Fields. (IEEE2018)*

2. *Evaluation methodology for license Plate Recognition Systems and Experimental results. (IEEE2018)*

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3. *Arbitrary-Oriented Ship Detection Framework in Optical Remote-Sensing Images.* *(IEEE2018)*

4. *Deshadowing of Urban Airborne Imagery Based on Object-Oriented Automatic Shadow Detection and Regional Matching Compensation.* *(IEEE2018)*

III. *MATLAB based on BIO-AESCULAPIUS IMAGING*

1. *Fusion of structural and textural features for melanoma recognition.* *(IEEE2018)*

2. *Deep multiple instance learning for automatic detection of diabetic retinopathy in retinal images.* *(IEEE2018)*

3. *A Correction to the Article ''Fast Optic Disc Segmentation in Retina Using Polar Transform''.* *(IEEE2018)*

4. *Curvelet analysis of breast masses on dynamic magnetic resonance mammography.* *(IEEE2018)*

5. *Synthesis, stability, and in vitro oral cancer cell toxicity of human serum albumin stabilised gold nanoflowers.* *(IEEE2018)*

6. *A Real Time System for the Analysis of Sickle Cell Anemia Blood Smear Images Using Image Processing.* *(IEEE2018)*

7. *Segmentation and Measurement of Chronic Wounds for Bio printing.* *(IEEE2018)*

8. *Using DBN for Malaria Parasite Detection from microscopic image.* *(IEEE2018)*

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9. *Hybrid Densely Connected UNet for Liver and Tumor Segmentation from CT Volumes.* *(IEEE2018)*

10. *Hookworm Detection in Wireless Capsule Endoscopy Images with Deep Learning.* *(IEEE2018)*

11. *Joint Detection of Associations between DNA Methylation and Gene Expression from Multiple Cancers.* *(IEEE2018)*

12. *Retinal vessel segmentation using neural network.* *(IEEE2018)*

13. *Concatenated and Connected Random Forests with Multi scale Patch Driven Active Contour Model for Automated Brain Tumor Segmentation of MR Images.* *(IEEE2018)*

IV. ***MATLAB based on BIO-METRIC RECOGNITION***

1. *Fingervein presentation attack detection using total variation decomposition.* *(IEEE2018)*

2. *Emotion Recognition from facial expressions using hybrid feature descriptors.* *(IEEE2018)*

3. *Human Ear Identification using Vector Quantization Algorithms.* *(IEEE2018)*

4. *Enhanced Human Face Recognition Using LBPH Descriptor, Multi-KNN, and Back-Propagation Neural Network.* *(IEEE2018)*

5. *Palm print Identification Using an Ensemble of Sparse Representations.* *(IEEE2018)*

6. *Hybrid robust iris recognition approach using iris image pre-processing, two-dimensional Gabor features and multi-layer perception neural network/PSO.* *(IEEE2018)*

7. *Speech recognition and lip features extraction based masking methods.* *(IEEE2018)*

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V.   MATLAB based on HUMAN TO MACHINE COMMUNICATION

1. Health of Things Algorithms for Malignancy Level Classification of Lung Nodules.
(IEEE2018)

2. Prospective solution to bank card system using fingerprint. (IEEE2018)

3. Verifiable Classroom Voting in Practice. (IEEE2018)

4. An Overview of Internet of Things (IoT) and Data Analytics in Agriculture: Benefits and
Challenges. (IEEE2018)

5. Machine learning gesture analysis of yoga for exergame development. (IEEE2018)

6. Analysis of morphology-based features for Classification of Crop and Weeds in Precision
Agriculture. (IEEE2018)

VI.   MATLAB based on AGRIBUISNESS MANAGEMENT

1. *Bacterial foraging optimization based Radial Basis Function Neural Network (BRBFNN) for*
    identification and classification of plant leaf diseases. (IEEE2018)

2. *Animal Detection System in Farm Areas. (IEEE2018)*

3. *A Smart System for irrigation using Wireless Sensor Networks. (IEEE2018)*

4. *Automatic detection of tomato Wilt Disease in multispectral imaging. (IEEE2018)*

5. *Fruit Quantity and Ripeness Estimation Using a Robotic Vision System. (IEEE2018)*

6. *Automatic Detection of Field-Grown Cucumbers for Robotic Harvesting. (IEEE2018)*

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VII.   MATLAB based on MACHINE-EYE

1. *Detection of Human Falls on Furniture Using Scene Analysis Based on Deep Learning and Activity Characteristics.* **(IEEE2018)**

2. *Wearable Device-Based System to Monitor a Driver's Stress, Fatigue, and Drowsiness.* **(IEEE2018)**

3. *Hot Spot method for pedestrian detection using saliency maps, discrete Chebyshev moments and support vector machine.* **(IEEE2018)**

VIII.   MATLAB based on AURAL PROCESSING

1. *Innovative Method for Unsupervised Voice Activity Detection and Classification of Audio Segments.* **(IEEE2018)**

2. *Novel audio features for music emotion recognition.* **(IEEE2018)**

3. *SNR-Constrained Heuristics for Optimizing the Scaling Parameter of Robust Audio Watermarking.* **(IEEE2018)**

IX.   MATLAB based on VIDEO PROCESSING

1. *Vision-based Human Action Classification Using Adaptive Boosting Algorithm.* **(IEEE2018)**

2. *Fast Execution Schemes for Dark-Channel-Prior-Based Outdoor Video Dehazing.* **(IEEE2018)**

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3. *Dynamic Bacground Subtraction Method Based on Spatio Temporal Classification. (IEEE2018)*

4. *A Novel Video Watermarking Approach Based on Implicit Distortions. (IEEE2018)*

5. *Hyperspectral anomaly detection using differential image. (IEEE2018)*

6. *SPIHT Algorithm with Adaptive Selection of Compression Ratio Depending on DWT Coefficients. (IEEE2018)*

7. *Convolutional Neural Networks based Fire Detection in Surveillance Videos. (IEEE2018)*

X. *MATLAB based on STRUCTURE DESIGN AND MONITORING*

1. *Traffic Sign Recognition Using a Multi task Convolutional Neural Network. (IEEE2018)*

2. *Multiple Salient Features Based Automatic Road Extraction from High Resolution Multispectral Satellite Images. (IEEE2018)*

3. *Building Extractios From RGB VHR Images Using Shifted Shadow Algorithm. (IEEE2018)*

4. *Automatic Object Extraction from images using deep learning neural networks and the level set method. (IEEE2018)*

5. *Automatic Pixel-Level Pavement Crack Detection Using Information of Multi-Scale Neighborhoods. (IEEE2018)*

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XI.   MATLAB based on IMAGE ENHANCEMENT

1. *Curvelet Based Multiscale Denoising Using Non-Local Means And Guided Image Filter.* **(IEEE2018)**

2. *Estimating Depth-Salient Edges and Its Application to Stereoscopic Image Quality Assessment. (IEEE2018)*

3. *Image Deblurring with a Class-Specific Prior. (IEEE2018)*

4. *Traffic Scene Segmentation Based on RGB-D Image and Deep Learning. (IEEE2018)*

5. *Rain/Snowflake removal for videos via global and local low-rank decomposition. (IEEE2018)*

XII.   MATLAB based on GRAPHICAL USER INTERFACE

1. *Survey on Smart E-Voting System Based on Fingerprint Recognition **(IEEE2018)***

2. *Crop Row Detection on Tiny Plants with the Pattern Hough Transform. (IEEE2018)*

3. *Sensor Applications and Physiological Features in Drivers' Drowsiness Detection: A Review. (IEEE2018)*

4. *Combining Convolutional Neural Network with Recursive Neural Network for Blood Cell Image Classification. (IEEE2018)*

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