

# SUNSHINE INSTITUTIONS

## MATLAB PROJECT LIST

<b>IMAGE PROCESSING</b>	
<b>S.No.</b>	<b>Project List</b>
1	Live Video Forensics: Source Identification in Lossy Wireless Networks.
2	An Efficient MRF Embedded Level Set Method for Image Segmentation
3	Remote Sensing Image Segmentation Based on an Improved 2-D Gradient Histogram and MMAD Model
4	An Efficient SIFT-Based Mode-Seeking Algorithm for Sub-Pixel Registration of Remotely Sensed Images
5	A New Self-Training-Based Unsupervised Satellite Image Classification Technique using Cluster Ensemble Strategy
6	Rotation-Invariant Object Detection in Remote Sensing Images Based on Radial-Gradient Angle
7	Hidden Markov Model Based Dynamic Texture Classification
8	Reversible Image Data Hiding with Contrast Enhancement
9	Supervised Spectral–Spatial Hyper spectral Image Classification With Weighted Markov Random Fields
10	An Adaptive Pixel Extraction Technique for Multispectral Hyper spectral Image Classification
11	Saliency-Guided Unsupervised Feature Learning for Scene Classification
12	A New Framework for SAR Multi temporal Data RGB Representation: Rationale and Products
13	Aerial Image Registration for Tracking
14	Dimension Reduction Using Spatial and Spectral Regularized Local Discriminant
15	Embedding for Hyper spectral Image Classification

16	Discriminative Clustering and Feature Selection for Brain MRI Segmentation
17	Extracting Man-Made Objects From High Spatial Resolution Remote Sensing Images via Fast Level Set Evolutions
18	Gabor Feature-Based Collaborative Representation for Hyper spectral Imagery Classification
19	Classification of Hyper spectral Image Based on Sparse Representation in Tangent Space
20	3DMKDSRC: A novel approach for 3d face recognition
21	Crowded Scene Analysis: A Survey
22	A Feature-Enriched Completely Blind Image Quality Evaluator
23	A No-Reference Texture Regularity Metric Based on Visual Saliency
24	A Probabilistic Approach for Color Correction in Image Mosaicking Applications
25	Boundary Detection Using Double-Opponency and Spatial Sparseness Constraint
26	Combining Left and Right Palm print Images for More Accurate Personal Identification
27	Face Recognition Across Non-Uniform Motion Blur, Illumination, and Pose
28	Face Sketch Synthesis via Sparse Representation-Based Greedy Search
29	Fractal Analysis for Reduced Reference Image Quality Assessment
30	Object Detection and Tracking for Surveillance System
31	Image Denoising by Exploring External and Internal Correlations
32	Image Super-Resolution Based on Structure-Modulated Sparse Representation
33	L2-RLS Based Object Tracking

34	Multi focus Image Fusion Based on NSCT and Focused Area Detection
35	Pareto-Depth for Multiple-Query Image Retrieval
36	Robust Representation and Recognition of Facial Emotions Using Extreme Sparse Learning
37	Steganography Using Reversible Texture Synthesis
38	K out of N Secret Sharing Scheme for Gray and Color Images
39	A Novel 3-4 Image Secret Sharing Scheme
40	An improved Halftone Visual Secret

## **SIGNAL PROCESSING**

<b>S.No.</b>	<b>Project List</b>
1	Image Sensor-Based Heart Rate Evaluation From Face Reflectance Using Hilbert–Huang Transform
2	An EEG-Based Biometric System Using Eigenvector Centrality in Resting State Brain Networks
3	Cardiovascular Biometrics: Combining Mechanical and Electrical Signals
4	Enhanced Ridge Structure for Improving Fingerprint Image Quality Based on a Wavelet Domain
5	Non-Local Means Image Denoising With a Soft Threshold
6	NMF-based Target Source Separation Using Deep Neural Network
7	Revealing the Trace of High-Quality JPEG Compression Through Quantization Noise Analysis
8	Robust Speaker Verification With Joint Sparse Coding Over Learned Dictionaries
9	Continuous-Time FIR Filters Based on Frequency-Response Masking Technique
10	QRD-RLS Adaptive Filtering Approach for Acoustic Echo Cancellation and its comparison with LMS and FLMS Algorithms

11	Multiple Watermarking on Digital Audio based on DWT Technique
12	Estimation of Heart Rate from Photoplethysmography during Physical Exercise using Wiener Filtering and the Phase Vocoder
13	A state-space partitioned-block adaptive filter for echo cancellation using inter-band correlations in the kalman gain computation

## COMMUNICATION

S.No.	Project List
1	Structure and Rank Awareness for Error and Data Flow Reduction in Phase-Shift-Based ToF Imaging Systems Using Compressive Sensing
2	OFDM Modulated Dynamic Coded Cooperation in Underwater Acoustic Channels on the sum capacity of the gaussian x channel in the mixed interference regime
3	Initial Synchronization Assisted from Inherent Diversity on LTE Sector Search Process
4	Stochastic Geometry Study on Device to Device Communication as a Disaster Relief Solution
5	An Efficient Sensor Node Selection Algorithm for Sidelobe Control in Collaborative Beam forming
6	ICI Self-Cancellation with Cosine Windowing in OFDM transmitters Over Fast Time-Varying Channels
7	Rate, energy, and delay trade offs in wireless multicast: network coding vs. routing
8	Low-Complexity SINR Feasibility Checking and Joint Power and Admission Control in Prioritized Multi-tier Cellular Networks
9	On Designing a Novel Self-Triggered Sampling Scheme for Networked Control Systems with Data Losses and Communication Delays
10	Capacity-Achieving Input Distributions of Additive Quadrature Gaussian-Mixture Noise Channels
1	Multi-Gigabit E-band Wireless Data Transmission
12	Cryptography Based Secured Advanced on Demand Routing Protocol in MANET's
13	A New Class of Multiple-Rate Codes Based on Block Markov Superposition Transmission
14	Traffic-aware online network selection in heterogeneous wireless networks

