**IMAGE PROCESSING**

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| **Sr.NO**  | **Project Title**  |
| 1.  | Image quality assessment: from error visibility to structural similarity  |
| 2.  | Image Super-Resolution Via Sparse Representation  |
| 3.  | Gradient Histogram Estimation and Preservation for Texture Enhanced Image Denoising  |
| 4.  | Region filling and object removal by exemplar-based image inpainting  |
| 5.  | Hyperspectral Image Classification Through Bilayer Graph-Based Learning  |
| 6.  | Robust Online Multiobject Tracking With Data Association and Track Management  |
| 7.  | Patch-Ordering-Based Wavelet Frame and Its Use in Inverse Problems  |
| 8.  | QR Images: Optimized Image Embedding in QR Codes  |
| 9.  | A Novel Local Pattern Descriptor—Local Vector Pattern in High-Order Derivative Space for Face Recognition  |
| 10.  | Phase-Based Binarization of Ancient Document Images: Model and Applications  |
| 11.  | Fast Generic Polar Harmonic Transforms  |
| 12.  | Scene Text Recognition in Mobile Applications by Character Descriptor and Structure Configuration  |
| 13.  | OSRI: A Rotationally Invariant Binary Descriptor  |
| 14.  | BRINT: Binary Rotation Invariant and Noise Tolerant Texture Classification  |
| 15.  | Single Image Interpolation Via Adaptive Nonlocal Sparsity-Based Modeling  |
| 16.  | Progressive Image Denoising  |
| 17.  | Rate-Constrained 3D Surface Estimation From Noise-Corrupted Multiview Depth Videos  |
| 18.  | LBP-Based Edge-Texture Features for Object Recognition  |
| 19.  | Image Quality Assessment for Fake Biometric Detection: Application to Iris, Fingerprint, and Face Recognition  |
| 20.  | On Scanning Linear Barcodes From Out-of-Focus Blurred Images: A Spatial Domain Dynamic Template Matching Approach  |
| Sr.NO  | Project Title  |
| 21.  | Abandoned Object Detection System.  |
| 22.  | Novel PCB defect and Damaged Component Analysis using Image Processing.  |
| 23.  | Image processing based Automated Guided Vehicle.  |
| 24.  | Analysis of transformer oil by using Image Processing.  |
| 25.  | Cost effective smart remote controller based on invisible IR-LED using image processing.  |
| 26.  | Automatic inspection of outdoor insulators using image processing and intelligent techniques.  |
| 27.  | Consumer electronics-based intelligent alert system for unattended elderly residents.  |
| 28.  | Disk Space Optimization during video recording in continuous surveillance systems.  |
| 29.  | Real-time intelligent alarm system of driver fatigue based on video sequences.  |
| 30.  | Real world automated detection of traffic violations.  |
| 31.  | Automatic system for determination of blood types using image processing techniques.  |
| 32.  | Image authentication and restoration by multiple watermarking techniques with advance encryption standard in digital photography.  |
| 33.  | Multi-sensor Image Fusion  |
| 34.  | Image Steganography using BPCS (Bit Plane Complexity Steg.) System  |
| 35.  | Image Steganography using TBPC (Tree Based Parity Check) System.  |
| 36.  | Separable reversible encrypted data hiding in encrypted image using AES Algorithm and Lossy technique.  |
| 37.  | Innovative algorithms for vision defect identification system.  |
| 38.  | Enhancing Light Blob Detection for Intelligent Headlight Control Using Lane Detection  |
| 39.  | Energy saver with localised occupancy detection based on image processing.  |
| 40.  | An Automated Recognition of fake or destroyed Indian Currency note in machine vision.  |
| 41.  | Recognition of human actions using Motion History Information extracted from the compressed video.  |
| 42.  | A Digital Image Stabilization Method Based on the Hilbert–Huang Transform.  |
| 43.  | A novel detection approach using bio-inspired vision for enhanced object  |
| 44.  | A novel approach of assisting the visually impaired to navigate path and avoiding obstacle collisions.  |
| 45.  | Video Segmentation using Dynamic Texture Linear Binary Pattern (DT-LBP).  |
| 46.  | Photographic Enhancement Using Multiple Exposure Images.  |
| 47.  | Offline Signature Verification using Grid based Feature Extraction.  |
| 48.  | Vehicle Classification and Measurement using Image Processing.  |
| 49.  | Vehicle License Plate Detection and Recognition Using VEDA algorithm.  |
| 50.  | Scene Text Detection via Connected Component Clustering and Nontext Filtering  |
| 51.  | Counting objects in an image by marker controlled watershed segmentation and thresholding.  |
| 52.  | Image Processing Based Traffic Control System.  |
| 53.  | Fire Detection using LAB colour-space.  |
| 54.  | Fruit Quality Management System using K-Means Clustering.  |
| 55.  | Detection and Classification of Apple Fruit Diseases Using Complete Local Binary Patterns.  |
| 56.  | Seed Quality Analysis using Image Processing.  |
| 57.  | Leaf Disease Recognition.  |
| 58.  | Digital watermarking using Discrete Wavelet Transform and Principal Component Analysis.  |
| 59.  | Device Control using hand gestures.  |
| 60.  | American Sign Language Recognition using image processing.  |
| 61.  | Diabetes Recognition using Iridology.  |
| 62.  | Non-invasive Haemoglobin Detection Using image Processing.  |
| 63.  | Iris Recognition using Phase Based Matching.  |
| 64.  | Detection of abnormalities in retinal images.  |
| 65.  | Face Recognition based Car-Locking System.  |
| 66.  | User Authentication Using Keyboard and Mouse Dynamics.  |
| 67.  | Personal Authentication Using finger Knuckle.  |
| 68.  | Personal Authentication Using Finger print.  |
| 69.  | Malaria Parasite Detection using SVM Classifier.  |
| 70.  | Mouse Pointer Control using hand gestures.  |
| 71.  | Lung Cancer Detection using Watershed Segmentation.  |
| 72.  | Automatic retrival of MRI brain image using Multiqueries system.  |
| 73.  | Brain Tumour Detection using CT and MRI image fusion.  |
| 74.  | Tissue density classification in mammographic images using local features.  |
| 75.  | Breast Cancer Detection using SVM Classifier.  |
| 76.  | Change Detection in SAR images using fuzzy Clustering.  |
| 77.  | Image Morphing.  |
| 78.  | Fabric Textile Defect Detection using Wavelet Coefficients.  |
| 79.  | Performance evaluation of traditional and adaptive lifting based wavelets with SPIHT for lossy image compression.  |
| 80.  | Application of temperature compensated ultrasonic ranging for blind person and verification using MATLAB.  |
| 81.  | Super-pixel Classification Based Optic Disc and Optic Cup Segmentation for Glaucoma Screening.  |
| 82.  | Colour and texture feature-based image retrieval by using hadamard matrix in discrete wavelet transfor  |

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| **SPEECH, SIGNAL and COMMUNICATION****Sr.NO**  | **Project Title**  |
| 83.  | Acoustic interference cancellation for a voice-driven interface in smart TVs  |
| 84.  | Signal detection for cognitive radar.  |
| 85.  | Least-Mean-Square algorithm based adaptive filters for removing power line interference from ECG signal.  |
| 86.  | Wavelet-based analysis for heart sound monitoring system.  |
| 87.  | Automated pitch-based gender recognition using an adaptive neuro-fuzzy inference system.  |
| 88.  | Fuzzy rule based voice emotion control for user demand speech generation of emotion robot.  |
| 89.  | Speech recognition based wireless automation of home loads with fault identification for physically challenged.  |
| 90.  | Wind Signal Forecasting Based on System Identification Toolbox of MATLAB.  |
| 91.  | Advanced modulation formats for free-space laser communication.  |
| 92.  | A Key Management Scheme for Secure Communications of Advanced Metering Infrastructure in Smart Grid  |
| 93.  | On Spatial Domain Cognitive Radio Using Single-Radio Parasitic Antenna Arrays.  |
| 94.  | Full-dimension MIMO (FD-MIMO) for next generation cellular technology.  |
| 95.  | Modelling of OFDM-ODSB-FSO Transmission System under Different Weather Conditions.  |
| 96.  | Accelerometer Based Digital Pen for Handwritten Digit and Gesture Recognition  |
| 97.  | Extraction of FECG signal using ICA (Independent Component Analysis).  |
| 98.  | ECG Signal Classification  |
| 99.  | EEG Signal Classification using PSD Features.  |
| 100.  | Acceleration Sensor based Mouse.  |
| 101.  | Device Control Using Speech Recognition.  |
| 102.  | Speech Emotion Recognition.  |
| 103.  | Drowsiness Detection Using EEG Signals.  |
| 104.  | Simulation of OFDM System in Matlab (BER,Multipath,PAPR)  |
| 105.  | Simulation Of smart Antenna using Beamforming Technique  |