**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 |