IEEE 2014-2015 PROJECT LIST

MATLAB PROJECT LIST

IMAGE PROCESSING

2. An Efficient Parallel Approach For Sclera Vein Recognition
3. BRINT: Binary Rotation Invariant And Noise Tolerant Texture Classification
4. Designing An Efficient Image Encryption-Then-Compression System Via Prediction Error Clustering And Random Permutation
5. Digital Image Sharing By Diverse Image Media
6. Dual-Geometric Neighbor Embedding For Image Super Resolution With Sparse Tensor
7. Exposing Digital Image Forgeries By Illumination Color Classification
8. Fingerprint Compression Based On Sparse Representation
9. Hyperspectral Image Classification Through Bilayer Graph-Based Learning
10. Images As Occlusions Of Textures: A Framework For Segmentation
11. Low-Rank Neighbor Embedding For Single Image Super- Resolution
12. Mining Weakly Labeled Web Facial Images For Search-Based Face Annotation
13. Phase-Based Binarization Of Ancient Document Images: Model And Applications
15. Scene Text Recognition In Mobile Applications By Character Descriptor And Structure Configuration
16. A Unified Data Embedding And Scrambling Method
17. Characterness: An Indicator Of Text In The Wild
18. A Distributed Canny Edge Detector: Algorithm And FPGA Implementation
19. An FPGA-Based Fully Synchronized Design Of A Bilateral Filter For Real-Time Image Denoising
20. Crop Type Classification By Simultaneous Use Of Satellite Images Of Different Resolutions
21. Easisee: Real-Time Vehicle Classification And Counting Via Low-Cost Collaborative Sensing
22. Edge Detection Method For Image Processing Based On Generalized Type-2 Fuzzy Logic
23. From Bits To Images: Inversion Of Local Binary Descriptors
24. Fully Automatic Dark-Spot Detection From SAR Imagery With The Combination Of Nonadaptive Weibull Multiplicative Model And Pulse-Coupled Neural Networks
25. Group-Invariant Colour Morphology Based On Frames
26. Localization Of License Plate Number Using Dynamic Image Processing Techniques And Genetic Algorithms
27. Measuring Calorie And Nutrition From Food Image
28. Moving Target Analysis In ISAR Image Sequences With A Multiframe Marked Point Process Model
29. Multilevel Image Segmentation Based On Fractional-Order Darwinian Particle Swarm Optimization
31. Robust Text Detection In Natural Scene Images
32. Saliency-Based Selection Of Gradient Vector Flow Paths For Content Aware Image Resizing
33. Seamless Fusion Of Lidar And Aerial Imagery For Building Extraction
34. Segmentation-Based Partial Volume Correction For Volume Estimation Of Solid Lesions In CT
35. Shadow Detection Of Man-Made Buildings In High-Resolution Panchromatic Satellite Images
36. Supervised Classification Of Multisensor And Multiresolution Remote Sensing Images With A Hierarchical Copula-Based Approach
37. Supervised Classification Of Multisensor And Multiresolution Remote Sensing Images With A Hierarchical Copula-Based Approach
38. Vehicle Reidentification With Self-Adaptive Time Windows For Real-Time Travel Time Estimation
39. Analysis of transformer oil by using MATLAB (Image Processing tool)
40. Analysis of rice granules using image processing and neural network
41. Novel image processing techniques for early detection of breast cancer, matlab and labview implementation
42. Cost effective smart remote controller based on invisible IR-LED using image processing
43. Automatic inspection of outdoor insulators using image processing and intelligent techniques
44. Automatic system for determination of blood types using image processing techniques
45. Non-destructive Quality Analysis of Kamod Oryza Sativa SSP Indica (Indian Rice) Using Machine Learning Technique
46. Development of a system for monitoring and tracking of physiotherapeutic movements in patients with neurological diseases
47. Automatic Malaria Diagnosis system
48. A novel approach of assisting the visually impaired to navigate path and avoiding obstacle collisions
49. Counting objects in an image by marker controlled watershed segmentation and thresholding
50. Localization of License Plate Number Using Dynamic Image Processing Techniques And Genetic Algorithms
51. LabVIEW implementation of an elasticity measurement technique
52. Innovative algorithms for vision defect identification system
53. Design of Automobile License Plate Recognition System Based on MATLAB and Fuzzy PID
54. Customized architecture for implementing configurable FFT on FPGA
55. A Median Image Filtering Algorithm Based on Statistical Histogram
56. Tracking and counting vehicles in traffic video sequences using particle filtering
57. Detection of abnormalities in retinal images
58. Retinal Microaneurysm Detection Through Local Rotating Cross-Section Profile Analysis
59. Vision-based sign language translation device
60. Signature matching with automated cheque system
61. Novel segmentation algorithm for hand gesture recognition
62. The monitoring system of smoke images based on embedded system and GPRS
63. Consumer electronics-based intelligent alert system for unattended elderly residents
64. Driver fatigue detection using machine vision approach
65. The Use of Automotive Radars in Video-Based Overtaking Assistance Applications
66. A Novel Vehicle Detection Method With High Resolution Highway Aerial Image
67. Design of an intelligent electric vehicle for blind
68. Enhancing Light Blob Detection for Intelligent Headlight Control Using Lane Detection
69. Intelligent Parking System for Car Parking Guidance and Damage Notification
70. Sensor Fusion-Based Vacant Parking Slot Detection and Tracking
71. Police Eyes: Real world automated detection of traffic violations
72. Stopped Object Detection by Learning Foreground Model in Videos
IEEE Projects 100% WORKING CODE + DOCUMENTATION+ EXPLANATION – BEST PRICE
LOW PRICE GUARANTEED

73. Traffic Violation Detection Using Multiple Trajectories Evaluation of Vehicles
74. EasiSee: Real-Time Vehicle Classification and Counting via Low-Cost Collaborative Sensing
75. Adaptive encryption using pseudo-noise sequences for medical images
76. Real time edge detected advanced image acquisition system using RGB analysis
77. Image authentication and restoration by multiple watermarking techniques with advance encryption standard in digital photography
78. Indoor security system design and implementation using depth information
79. Securing Visual Cryptographic shares using Public Key Encryption
80. An Encryption and Decryption Algorithm for Image Based on DNA
81. Depth-based hand gesture recognition for home appliance control
82. Novel segmentation algorithm for hand gesture recognition
83. Gesture and Hand Activity Based Emergency Response Communication by Patients, Elderly and Disabled While Using Data Gloves
84. Brain Tumor Classification using Discrete Cosine Transform and Probabilistic Neural Network
85. Lung tumor detection and diagnosis in CT scan images
86. Detection of lung tumor in CE CT images by using weighted Support Vector Machines
87. Design and implementation of a unique blood-vessel detection algorithm towards early diagnosis of diabetic retinopathy
88. Directional Local Contrast Based Blood Vessel Detection in Retinal Images
89. A separable reversible data hiding in encrypted image with improved performance
90. How can human communicate with robot by hand gesture?
91. Human Abnormal Action Identification Method in Different Scenarios
92. Hand gesture based interface for aiding visually impaired using real time camera
93. Bomb detection in public places using real time image processing
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LOW PRICE GUARANTEED

94. Missing Objects and Theft detection in static environment using CCTV camera image
95. Intelligent Traffic Light control and vehicle identification using traffic cameras without ground sensors
96. Energy saver with localised occupancy detection based on image processing
97. PCB defect identification using DIP
98. Umpire hand signal identification for automatic run scoring using dynamic video processing
99. Object sorting in manufacturing industries using continuous image acquisition
100. Disk Space Optimization during video recording in continuous surveillance systems

SIGNAL PROCESSING PROJECT TITLES

1. A 300-Mv 220-Nw Event-Driven ADC With Real-Time QRS Detection For Wearable ECG Sensors
2. A Dynamic Compression Scheme For Energy-Efficient Real-Time Wireless Electrocardiogram Biosensors
3. A Home Sleep Apnea Screening Device With Time-Domain Signal Processing And Autonomous Scoring Capability
4. A Tactile Stimulation Device For EEG Measurements In Clinical Use
5. A Tactile Stimulation Device For EEG Measurements In Clinical Use
6. Application Of Cross Wavelet Transform For ECG Pattern Analysis And Classification
7. Atrial Electrical Activity Detection Using Linear Combination Of 12-Lead ECG Signals
8. Augmented Complex Common Spatial Patterns For Classification Of Noncircular EEG From Motor Imagery Tasks
9. Automated Biosignal Quality Analysis For Electromyography Using A One-Class Support Vector Machine

10. Eigenvalue Signal Processing For Weather Radar Polarimetry: Removing The Bias Induced By Antenna Coherent Cross-Channel Coupling

11. Enhanced Low-Latency Detection Of Motor Intention From EEG For Closed-Loop Brain-Computer Interface Applications

12. ERNN: A Biologically Inspired Feedforward Neural Network To Discriminate Emotion From EEG Signal


14. Hypnogram And Sleep Parameter Computation From Activity And Cardiovascular Data

15. Improved Signal Processing Methods For Velocity Selective Neural Recording Using Multi-Electrode Cuffs

16. Integrate And Fire Pulse Train Automaton For QRS Detection

17. Nonparametric Signal Processing Validation In T-Wave Alternans Detection And Estimation

18. Novel Electrodes For Underwater ECG Monitoring


20. Quantum Neural Network-Based EEG Filtering For A Brain–Computer Interface

21. Rotational Speed Measurement Through Electrostatic Sensing And Correlation Signal Processing

22. Secondary Peak Detection Of PPG Signal For Continuous Cuffless Arterial Blood Pressure Measurement
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LOW PRICE GUARANTEED

23. Signal Processing With Direct Computations On Compressively Sensed Data
24. Simple And Efficient Compressed Sensing Encoder For Wireless Body Area Network
25. Time-Interleaved Phased Arrays With Parallel Signal Processing In RF Modulations

COMMUNICATION

1. Digital Phase Noise Cancellation For A Coherent-Detection Microwave Photonic Link
2. Energy-Efficient Processor For Blind Signal Classification In Cognitive Radio Networks
3. Cluster Head Election For Energy And Delay Constraint Applications Of Wireless Sensor Network
4. Channel-Aware Relay Node Placement In Wireless Sensor Networks For Pipeline Inspection
5. Adaptive Multi-Channel Transmission Power Control For Industrial Wireless Instrumentation
7. An Energy-Balanced Routing Method Based On Forward-Aware Factor For Wireless Sensor Networks
8. WSN-Based Smart Sensors And Actuator For Power Management In Intelligent Buildings
11. Improving Spectrum Efficiency Via In-Network Computations In Cognitive Radio Sensor Networks
12. Joint Iterative Carrier Synchronization And Signal Detection Employing Expectation Maximization
13. Real-Time Digital Signal Processing For Optical OFDM-Based Future Optical Access Networks
14. Joint Routing And Resource Allocation For Delay Minimization In Cognitive Radio Based Mesh Networks
15. Joint Optimization Of Clustering And Cooperative Beamforming In Green Cognitive Wireless Networks
16. Reconfigurable Filtennas And MIMO In Cognitive Radio Applications
17. Optimization For Centralized And Decentralized Cognitive Radio Networks
20. Energy Efficient Collaborative Beamforming In Wireless Sensor Networks
22. A Network Lifetime Enhancement Method For Sink Relocation And Its Analysis In Wireless Sensor Networks
23. Delay-Aware Medium Access Schemes For WSN-Based Partial Discharge Measurement
24. Throughput Maximization In Mobile WSN Scheduling With Power Control And Rate Selection
25. A Joint Duty-Cycle And Transmission Power Management For Energy Harvesting WSN
26. Efficient Power Conservation Mechanism In Spline Function Defined WSN Terrain
27. Effective Algorithms For WSN With Weight Principle In Web Of Things
28. A Reconfigurable Smart Sensor Interface For Industrial WSN In Iot Environment
29. Data Density Correlation Degree Clustering Method For Data Aggregation In WSN
30. Practical Energy-Aware Link Adaptation For MIMO-OFDM Systems
31. Generalized Inverse Aided PAPR-Aware Linear Precoder Design For MIMO-OFDM System
33. Decentralized Energy Efficient Coordinated Beamforming For Multicell Systems
34. Energy-Efficient Resource Allocation In LTE-Based MIMO-OFDMA Systems
35. Energy-Efficiency Analysis And Optimization For Virtual-MIMO Systems
36. Energy-Efficient Opportunistic Interference Alignment
37. Leakage-Aware Energy-Efficient Beamforming For Heterogeneous Multicell
38. Energy Efficient Pilot And Link Adaptation For Mobile Users In TDD Multi-User
39. Approximate Closed-Form Energy Efficient PA For MIMO Relaying Systems In
40. Energy Efficient MIMO Relay Transmissions Via Joint Power Allocations
41. An Energy Efficient Transmission Scheme For OFDM Systems In LTE
42. Energy-Efficient Spectrum Access In Cognitive Radios
44. Achieving Energy Efficiency And Reliability For Data Dissemination In Duty-Cycled Wsns
45. And Statistical With User Rate Constraints
46. Energy-Efficient Resource Allocation In OFDM Systems
47. With Distributed Spectrum Sensing Optimization For Energy-Harvesting Cognitive Radio Systems
48. An Efficient And Robust Data Compression Algorithm In Wireless Sensor
49. A Primer On Energy-Efficient Synchronization Of WSN Nodes Over Correlated
50. EMA: Energy-Efficiency-Aware Multiple Access
51. End-to-End Secure Multi-Hop Communication with Untrusted Relays
52. A Key Management Scheme for Secure Communications of Advanced Metering
53. Infrastructure in Smart Grid  RISE: A ReLiable and SEcure scheme for wireless Machine to Machine communications
54. A Lightweight Multicast Authentication Mechanism for Small Scale IoT Applications
   Practical Physical Layer Security Schemes for MIMO-OFDM Systems Using Precoding Matrix Indices
55. A Survey of Group Key Distribution Schemes With Self-Healing Property  A Physical Layer Secured Key Distribution Technique for IEEE 802.11g Wireless Networks
56. A Motion Monitor Using Hetero-Core Optical Fiber Sensors Sewed in Sportswear to Trace Trunk Motion
57. Simultaneous Measurement of Temperature and Strain Using a Single Bragg Grating in a Few-Mode Polymer Optical Fiber
58. A Dual-Parameter Optical Fiber Sensor for Concurrent Strain and Temperature
59. Measurement: Design, Fabrication, Packaging, and Calibration
60. The transmitter for indoor Free Space Optic networks
61. Experimental study of the performance for BPSK subcarrier intensity modulation free space optics communications in a laboratory controlled turbulence channel
62. Analysis of free space optical link in ahmedabad weather conditions
63. Modelling of OFDM-ODSB-FSO Transmission System under Different Weather Conditions
64. LIGHTNETs: Smart LIGHTing and Mobile Optical Wireless NETworks
65. Broadband Free Space Optical urban links for next generation infrastructures and services
66. Free Space Optical Communication with OOK and BPSK modulation under different turbulent condition
67. Modelling of free space optical link for ground-to-train communications using a Gaussian source
68. Advanced modulation formats for free-space laser communication
69. Distributed CSMA Algorithms for Link Scheduling in Multihop MIMO Networks Under SINR Model

70. Improving the DMT Performance for MIMO Communication With Linear Receivers

71. Characterization of Performance of a Mobile MIMO Antenna in Free Space

72. A channel state information feedback method for massive MIMO-OFDM

73. MIMO Radar Transmit Beampattern Design With Ripple and Transition Band Control

74. Full-dimension MIMO (FD-MIMO) for next generation cellular technology

75. Small Director Array for Low-Profile Smart Antennas Achieving Higher Gain

76. A Smart Wearable Textile Array System for Biomedical Telemetry Applications

77. On Spatial Domain Cognitive Radio Using Single-Radio Parasitic Antenna Arrays

78. Compensation of Time-Division Multiplexing Distortion in Switched Antenna Arrays With a Single RF Front-End and Digitizer

79. Moving cells: a promising solution to boost performance for vehicular users