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B.E/B.Tech Electronics and Communication Engineering

| S.No | Project Title |
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| Microcontroller Based Projects(8051,PIC16Fxx,Atmel Series) | |
| 1 | Intelligent Vehicle |
| 2 | Hospital Management |
| 3 | Patient Monitoring And Analysis System |
| 4 | Micro-controller based Three Wheeled Scooter |
| 5 | Aero Modeling and Ground Control simulation |
| 6 | Airport Baggage Identifier |
| 7 | Alert Mechanism for Blinds |
| 8 | Automated Kitchen With Intelligent Appliances |
| 9 | Automated Restaurant |
| 10 | Biometric Enabled Smart Ration Shops |
| 11 | Intelligent Glass House |
| 12 | Multi-tier Car Parking Management Systems |
| 13 | The Neonatal Intensive Care Unit |
| 14 | Operation Theatre Automation and Controller (OTAC) |
| 15 | Street Light and Traffic Signal Control using Wireless Technology |
| 16 | BABY PRAM |
| 17 | Micro-controller based Three Wheeled Scooter |
| 18 | Continuous Parameter Monitoring For Gym Users |
| 19 | Wheel Chair for Physically Challenged |
| 20 | Continuous Ambulatory Peritoneal Dialysis (CAPD) |
| 21 | CAN base Automated CAR maneuvering System |
| Projects on GSM/GPS/RFID/Zigbee | |
| 22 | Automated vehicle for physically and visually challenged |
| 23 | Community Car Pooling Based on GPS and GSM Technology – an initiative from City Traffic Police |
| 24 | A Blind Navigation System using GSM |
| 25 | Smart Public Transport Tracking With Route & Timing Suggesting Mechanism |
| 26 | Hand Held GPS Co-ordinates Provider |
| 27 | GSM Based Home Control Network |
| 28 | GSM Based Industrial Disaster Intimation Control System (GIDICS) |
| 29 | GSM Based Multi Utility Mass SMS Sender |
| 30 | GSM based Sericulture Marketing and Cocoon Selection Mechanism |

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| 31 | GSM Controlled Latch and Office Automation |
| 32 | GSM based Airport Automation (GAA) |
| 33 | RFID Based Toll Gate Automation |
| 34 | Metro Rail Tracking and Safety Mechanism |
| 35 | RFID Based Office Automation And Attendance Monitoring System With Payroll” |
| 36 | Office Automation with Timer, Attendance & Employee Monitoring System |
| 37 | Train Collision Preventer /Anti Collision Systems |
| 38 | IVRS System For Industrial Control |
| 39 | VB based Voice automation using Zigbee. |
| Projects on Robotics | |
| 40 | Automated Book Picking Robot for Libraries |
| 41 | Mobile Bomb Disposal Unit |
| 42 | Anti-Terrorist Vehicle |
| 43 | Data Collector - Unmanned remote surveillance vehicle with Sample Collector |
| 44 | Intelligent Spy Robot |
| 45 | Light Follower Robot |
| 46 | Intelligent Combat Robot |
| 47 | Visual Servo Control of a Three Degree of Freedom Robotic Arm System |
| Embedded IEEE 2013-2014 | |
| 48 | Accessible Display Design to Control Home Area Networks |
| 49 | Remote-Control System of High Efficiency and Intelligent Street Lighting Using a ZigBee Network of Devices and sensors |
| 50 | Smart Device for Optimal Use of Stored Renewable Power |
| 51 | Sensing Devices and Sensor Signal Processing for Remote Monitoring of Vital Signs in CHF Patients |
| 52 | Child Activity Recognition Based on Cooperative Fusion Model of a Triaxial Accelerometer and a Barometric Pressure Sensor |
| 53 | An Apparatus in Monitoring the Energy Charging System |
| 54 | Automated Control System for Air Pollution Detection in Vehicles |
| 55 | Design and Development of Digital PID Controller for DC Motor Drive System Using Embedded Platform for Mobile Robot |
| 56 | Design of a WSN Platform for Long-Term Environmental Monitoring for IoT Applications |
| S.No | Project Title |
| 57 | Hardware Demonstration of a Home energy management system for demand response applications |
| 58 | Online Monitoring of Geological CO2 Storage And Leakage Based on GPS and GSM |
| 59 | Centralized LPG Cylinders Theft Detection System With Security Alerts |
| 60 | Management of Mechanical Vibration and Temperature in Small Wind Turbines Using Zigbee Wireless Network |
| 61 | Energy Efficient LED Lighting System For Commercial Purpose |
| 62 | NFC-Enabled Smartphone Application For Drug Interaction And Drug Allergy Detection |
| 63 | Design of a WSN Platform for Long-Term Environmental Monitoring for IoT Applications |
| 64 | Environment monitoring and device control using ARM based Embedded Controlled Sensor Network |

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| 65 | Indoor Localization on Mobile Phone Platforms Using Embedded Inertial Sensors |
| 66 | Low Power Wireless Sensor Network for Building Monitoring |
| 67 | Management of Mechanical Vibration and Temperature in Small Wind Turbines Using Zigbee Wireless Network |
| 68 | Real-time swimmers' feedback based on smart infrared (SSIR) optical wireless sensor |
| 69 | Smart Home Energy Management System Including Renewable Energy Based on ZigBee and PLC |
| 70 | Wireless Communicatin Monitoring and Security System Embedded Safety Helmet for Real Time Applications. |
| 71 | A Reconfigurable Smart Sensor Interface for Industrial WSN in IoT Environment |
| 72 | An Integrated System for Regional Environmental Monitoring and Management Based on Internet of Things. |
| 73 | WSN-Based Smart Sensors and Actuator for Power Management in Intelligent Buildings. |
| 74 | Vehicle Control Using CAN Protocol For implementing the Intelligent Braking System (IBS) |
| 75 | A Review On Industrial Automation By Zigbee Based Wireless Remote Controller |
| 76 | Online Monitoring of Geological CO2 Storage and Leakage Based on Wireless Sensor Network |
| 77 | Child Activity Recognition Based on Cooperative Fusion Model of Triaxial Accelerometer and a Barometric Pressure Sensor |
| 78 | Low Power Wirelss Sensor Network for Building Monitoring |
| 79 | Health at the home:Remote health monitoring for patients and senior citizens at the home by using centralized web server |
| 80 | Transport/Travel Management System: Detection of Aggressive driving of commercial vehicles, along with Fuel theft detection, using centralized web server |
| 81 | Intelligent Food Management System: Maintenance of Agro and Non-Agro Foods in Cold Storage/Warehouse |
| 82 | Use of Ultrasonic Signal Coding and PIR Sensors to Enhance the Sensing Reliability of an Embedded Surveillance System |
| | Embedded IEEE 2015 New |
| 83 | Hand Gesture Recognition Based Robot Using Accelerometer Sensor |
| 84 | A Review on Design of Automated Floor Cleaning System |
| 85 | The Elderly Independent Living in Smart Homes: A Characterization of Activities and Sensing Infrastructure Survey to Facilitate Services Development |
| 86 | A Zigbee-Based Animal Health Monitoring System |
| 87 | WSN AND IOT-BASED SMART HOMES AND THEIR EXTENSION TO SMART BUILDINGS |
| 88 | DESIGN & IMPLEMENTATION OF SMART CITY USING CONTROLLED AREA NETWORK PROTOCOL FOR CONTROLLING PURPOSE |
| 89 | CONTROLLER AREA NETWORK BASED CRUISE CONTROL IN TRAFFIC SITUATIONS |
| 90 | CONTROL AREA NETWORK LIMITATIONS IN ECOCAR |
| 91 | DUAL MODE WIRELESS SENSOR NETWORK FOR REAL-TIME CONTACTLESS IN-DOOR HEALTH MONITORING |
| 92 | Hardware Demonstration of a Home Energy Management System for Demand Response Appl |
| 93 | GREENCHARGE: MANAGING RENEWABLE ENERGY IN SMART BUILDINGS |
| 94 | AN ENHANCED CRACK DETECTION SYSTEM FOR RAILWAY TRACK |
| 95 | RAILWAY TRACK CRACK DETECTION AUTONOMOUS VEHICLE |

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| 96 | SEED SOWING USING ROBOTICS TECHNOLOGY |
| 97 | AN AUTOMATED SYSTEM FOR ACCIDENT DETECTION |
| 98 | An Effective Wireless Solution for Industrial Automation |
| 99 | MICROCONTROLLER BASED THREE PHASE FAULT ANALYSIS FOR TEMPORARY AND PERMANENT FAULT |
| 100 | A NOVEL RECONFIGURABLE MICROGRID ARCHITECTURE WITH RENEWABLE ENERGY SOURCES AND STORAGE |
| POWER ELECTRONICS PROJECTS- IEEE 2015-2014 New | |
| 101 | A Double Uneven Power Converter Based dc-dc Converter for High-Power DC Grid Systems (IEEE-2015) |
| 102 | Automatic Current Sharing of an Input-Parallel Output-Parallel Connected DC-DC with Chain-Connected Rectifiers (2015) |
| 103 | Design and Implementation of a Single-Stage Driver for Supplying an LED Street-Lighting Module with Power Factor Corrections (IEEE-2015) |
| 104 | A Bridgeless Boost Rectifier for Low-Voltage Energy Harvesting Applications |
| 105 | Bridgeless SEPIC Converter With a Ripple-Free Input Current |
| 106 | High-Efficiency Digital-Controlled Interleaved Power Converter for High-Power PEM Fuel-Cell Applications |
| 107 | Naturally Clamped Zero Current Commutated Soft-switching Current-fed Push-Pull DC/DC Converter:Analysis,Design,and Experimental Results |
| 108 | Small-Signal Modeling of Active-Clamped ZVS Current-Fed Full-Bridge Isolated DC/DC Converter and Control System Implementation Using PsoC |
| 109 | Current-fed Soft-Switching Push-pull Front-end Converter Based Bidirectional Inverter for Residential Photovoltaic Power |
| 110 | A Bidirectional-Switch-Based Wide-Input Reange High-Efficiency Isolated Resonant Converter for Photovoltaic Applications |
| 111 | Novel Bidirectional Snubberless Naturally Clamped ZCS Curret-fed Full-bridge Voltage Doubler:Analysis,Design, and Experimental Results |
| 112 | Analysis,Design, and Experimental Results of Novel Snubberless Bidirectional Naturally Clamped ZCS/ZVS Current-Fed HalfBridge DC/DC Converter for Fuel Cell Vehicles. |
| MATLAB IMAGE PROCESSING PROJECTS- IEEE 2015-2014 New | |
| 113 | Image Sensor-Based Heart Rate Evaluation From Face Reflectance Using Hilbert-Huang Transform |
| 114 | An Efficient MRF Embedded Level Set Method for Image Segmentation |
| 115 | Reversible Image Data Hiding with Contrast Enhancement |
| 116 | Spectral-Spatial Classification of Hyperspectral Images With a Superpixel-BasedDiscriminative Sparse Model |
| 117 | Robust Rooftop Extraction From Visible Band Images Using Higher Order CRF |
| 118 | A Multi-Atlas-Based Segmentation Framework for Prostate Brachytherapy |
| 119 | Swarm Intelligence for Detecting Interesting Events in Crowded Environments |
| 120 | An Innovative Lossless Compression Method for Discrete-Color Images |
| 121 | Vector Sparse Representation of Color Image Using Quaternion Matrix Analysis |
| 122 | A Visual Model-Based Perceptual Image Hash for Content Authentication |

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| 123 | Abandoned Object Detection via Temporal Consistency Modeling and Back-Tracing Verification for Visual Surveillance |
| 124 | Face Liveness Detection From a Single Image via Diffusion Speed Model |
| 125 | Enhancing Color Images of Extremely Low Light Scenes Based on RGB/NIR Images Acquisition With Different Exposure Times |
| 126 | Robust Face Recognition for Uncontrolled Pose and Illumination Changes |
| 127 | Reversible Watermarking Based on Invariant Image Classification and Dynamic Histogram Shifting |
| 128 | Automatic Detection and Reconstruction of Building Radar Footprints From Single VHR SAR Images |
| 129 | Human Detection in Images via Piecewise Linear Support Vector Machines |
| 130 | Interactive Segmentation for Change Detection in Multispectral Remote- Sensing Images |
| 131 | Estimating Information from Image Colors: An Application to Digital Cameras and Natural Scenes |
| 132 | Context-Dependent Logo Matching and Recognition |
| 133 | Automatic License Plate Recognition (ALPR) |
| 134 | Automated Biometric Based Access in Automatic Teller Machine (ATM) |
| 135 | Hierarchical Prediction and Context Adaptive Coding for Lossless Color Image Compression |
| 136 | Robust Carotid Artery Recognition in Longitudinal B-Mode Ultrasound Images. |
| 137 | Color Texture Classification Using Shortest Paths in Graphs |
| 138 | Shape Vocabulary: A Robust and Efficient Shape Representation for Shape Matching. |
| 139 | Ordinal Feature Selection for Iris and Palmprint Recognition |
| 140 | Image Authentication Using Stochastic Diffusion |
| 141 | Face Detection and Tracking in Video |
| 142 | Automated Biometric Based Access in Automatic Teller Machine (ATM) |
| 143 | Tumor-Cut: Segmentation of Brain Tumors on Contrast Enhanced MR Images for Radiosurgery Applications |
| 144 | Super-Resolution based Inpainting |
| IEEE based Project Titles | |
| 145 | A New Isolated Bidirectional Buck-Boost PWM Converter 2011 |
| 146 | Design and Implementation of a Bi-directional Power Converter for Electric Bike with Charging Feature 2011 |
| 147 | Implementation of Solar Illumination System with Three-Stage Charging and Dimming Control Function |
| 148 | Design of intelligent traffic light controller using GSM & Embedded System. |
| 149 | Remote airfield lighting system. |
| 150 | Microcontroller based neural network controlled low cost autonomous vehicle. |
| 151 | Design of intelligent mobile vehicle checking based on ARM7. |
| 152 | Industrial automation using ZIGBEE. |
| 153 | Implementation of GPS for Location Tracking |
| 154 | Design of monitor and control system for supermarket fresh area based on ZIGBEE |
| 155 | Wireless Sensor Node to Detect Hazardous Gas Pipeline |
| 156 | Design of Vehicle positioning System Based on ARM |
| 157 | Design and Implementation of Pyro-electric Infrared Sensor based Security System |
| 158 | Detection of earthquakes and Tsunami through GSM Network Using Accelerometer sensor. |
| 159 | Design and Implementation of a Home Embedded Surveillance System with Ultra Low Alert Power |
| 160 | The real time temperature measuring system for the jointless train. |

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| 161 | Design of Land Slid Warning System |
| 162 | Home Automation for Mobile Device using Bluetooth Technology |
| 163 | Axis stepper motor controller for solar panel with power optimization. |
| 164 | Implementation of CAN bus in an autonomous all-terrain vehicles |
| 165 | Evidence collection from car black boxes using smart phones. |
| 166 | More Efficient Home Energy Management System Based on ZigBee Communication and Infrared Remote Controls |
| 167 | Vision-Based Automated Parking System |
| 168 | Design of an Intelligent Combat Robot for war field |
| Diploma in Electronics/Electrical | |
| 169 | RFid Based Museum Guide for Tourists |
| 170 | RFid Based Highway Toll Tax Collection System |
| 171 | RFid based Attendance System |
| 172 | RFid based Security System |
| 173 | Remote Surveillance Vehicle |
| 174 | Master slave communication |
| 175 | Greenhouse Robot |
| 176 | Industrial Automation Using Cell phone |
| 177 | Person counter and Password detector |
| 178 | Person counter and Password detector |
| 179 | Temperature & Light Monitoring and Controlling |
| 180 | Home Security System |
| 181 | Monitor and Control of Greenhouse Environment |
| 182 | Rolling display using Matrix LEDs |
| 183 | Automatic car parking indicator using M0.icrocontroller |
| 184 | Automatic Room light Controller with Visitor Counter |
| 185 | Level Computing and Storage Device |
| 186 | Microcontroller based Data Logger |
| 187 | Line follower Robot |
| 189 | Six Channel Petrochemical Fire Monitoring & Control Station |
| 190 | Gas Turbine Compartment Temperature Controller |
| | Temperature controller |
| 191 | Automatic Railway Gate |
| 192 | Heart Rate Monitor |
| 193 | Line Follower Robot with Obstacle Detection |
| 194 | Data acquisition system using 8051 |
| 195 | Microcontroller Based Health monitoring system. |
| 196 | Time Operated Electrical Appliance Controlling System |
| 197 | Temperature & Light Monitoring and Controlling(no synopsis) |
| 198 | Radio Frequency Identification System (RFID) |
| 199 | Public Garden Automation |
| 200 | Street lights that glow for 1/2km only on detecting vehicle movement |

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| 201 | Synchronized traffic light signal system (can) to ease traffic congestion in metros | |
| 202 | Automatic Dialing to any telephone using I2C protocol on detecting burglary | |
| 203 | Automatic irrigation system on sensing soil moisture content | |
| 204 | Using TV remote as a cordless mouse for the Computer | |
| 205 | Dynamically changing signal light time allotment in street junctions based on traffic density | |
| 206 | Auto power supply control from 4 different sources: Solar, Mains, Generator & Inverter to ensure no break power | |
| 207 | RFID guided automatic parking permission for vehicles in cellar at commercial complexes | |
| 208 | Closed loop feedback operated motor speed control | |
| 209 | Line following robotic Vehicle using microcontroller interface | |
| 210 | RFID based device control & authentication | |
| 211 | Low Cost Zigbee Based Load Controller | |
| 212 | RF controlled by hand held unit, laser beam managed bomb-diffusing robot | |
| 213 | Automatic Wireless health monitoring system in hospitals for patients | |
| 8051MC PROJECTS | | |
| 214 | A Zigbee-Based Home Automation System | 8051MC,Zigbee communication |
| 215 | Automatic Energy Meter Reading | 8051MC, RS232, GSM Modem, Energy meter |
| 216 | Design of the Smart Home based on embedded system | 8051MC, RS232, GSM Modem, IR Sensor |
| 217 | Distribution Transformer Monitoring System | 8051MC, Temperature sensor, Signal conditioning |
| 218 | Intelligent Transportation system | 8051MC, RS232, GSM Modem, REID card & Reader |
| 219 | Vehicle Registration using Smart Card Identification | 8051MC, RS232, GSM Modem, REID card & Reader |
| 220 | Mobile Tracking System | 8051MC, RS232, GSM Modem, REID card & Reader |
| 221 | Embedded Parking System | 8051MC, IR Sensor |
| 222 | Secluded Data Capturing using GSM | 8051MC, RS232, GSM Modem, ADC |
| 223 | Service Sector Drive Smartcard System | 8051MC, RS232, REID card & reader |
| 224 | Intelligent Electronic Voting Machine | 8051MC, I2C protocol |
| 225 | A Wireless Solution System for Tracking the Stolen Vehicles | 8051MC, RS232, GPS,GSM, |
| 225 | Solar Position Control and Automatic Power Distribution System | 8051MC, ADC, Light sensors, Solar panel |
| 226 | Far Flung Information Capturing using PSTN | 8051MC, ADC, PSTN |
| 227 | Easy SMSing System | 8051MC, GSM Modem, |
| 228 | Data Transfer Between Two Microcontrollers using IR Communication | 8051MC, RS232, IR Transmitter-receiver |
| 229 | Fluid Temperature Control using PWM | 8051MC, PWM Thermocouple |
| 230 | Embedded Vehicle Control through Mobile | 8051 Mc, DTMF Receiver, Proximity Sensor |
| 231 | Voting through SMS | 8051MC, RS232, GSM Modem, I2C |
| 232 | Student status acquisition with SMS | 8051MC, RS232, GSM Modem, I2C |
| 233 | RTC Based Street Light Controller | 8051 MC, ADC, LDRS, Solar panel, RTC |

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| 234 | Interactive Voice Response System for Industrial Automation | 8051 MC, DTMF, VB, I2C |
| 235 | Biometric enable smart ration shop | 8051MC, Biometric sensor, VB, PC |
| 236 | Intelligent combat robot | 8051MC, GSM Modem, camera, motor |
| 237 | Wheel chair for physical challenged | 8051MC, GSM Modem, camera, motor |
| BE/MTech IEEE-2012 PROJECTS | | |
| 238 | Real Time Bus Monitoring And Passenger Information System | |
| 239 | GSM Based Power Meter Reading And Control System | |
| 240 | Automatic Bus Recognition Through Mobile | |
| 241 | Wireless Patient Monitoring System Using GSM | |
| 242 | Building Lighting Automation through the Integration of DALI with Wireless Sensor Networks | |
| 243 | A Fair FARE System | |
| 244 | An Open Traffic Light Control Model for Reducing Vehicles' CO2 Emissions Based on ETC Vehicles | |
| 245 | Image Based Password Authentication For Illiterates With Touchscreen | |
| 246 | Automatic Power Grid Controller | |
| 247 | Implementation of a Controller Unit for an Intelligent Ventilation System (IVS) for a BTS Room | |
| 248 | GSM based e-Notice Board: Wireless Communication | |
| 249 | Embedded Web Server for Home Appliances | |
| 250 | GSM-Bluetooth based Remote Monitoring and Control System with Automatic Light Controller | |
| 251 | Sensor Network Based Oil well Health Monitoring and Intelligent Control | |
| 252 | Handheld Measuring Device For Multiple Parameters, In Wood And Ceramic Industries | |
| 253 | Implementation Of web Based remote Grid Monitoring | |
| 254 | Embedded Ethernet monitor and controlling using web browser | |
| 256 | Zero Standby Power Remote Control System using Light Power Transmission Optimizing the Localization of a Wireless Sensor Network in Real Time Based on a Low-Cost Microcontroller | |
| 257 | 3 G based industrial automation using GSM communication | |
| 258 | Analysis, Measurement and Evaluation of Power Line Communication Network Applied for Popular Houses | |
| 259 | Energy Consumption data Acquisition and display system development. | |
| 260 | Design And Development Of A Low-Cost Microcontroller Based Single Phase Water-Pump Controller | |
| 261 | Design of PIC Based Ethernet Interface to Control the Industrial Parameters | |
| 262 | A ZigBee-based monitoring and protection system for building electrical safety | |
| 263 | Design of intelligent traffic light controller using Embedded System. | |
| BE BIOMEDICAL Engineering PROJECT LIST | | |
| 264 | Design of a Wireless Medical Monitoring System. | BIO MEDICAL |
| 265 | GPS Based Patient Monitoring Alert | BIO MEDICAL |
| 266 | Microcontroller Based Patient Monitoring System | BIO MEDICAL |
| 267 | Operation Theatre Automation and Controller (OTAC) | BIO MEDICAL |
| 268 | NICU Monitoring With PC | BIO MEDICAL |
| 269 | Data Acquisition from body parameters using Zigbee | BIO MEDICAL |
| 270 | Health@Home – Remote Monitoring of Vital Signs | BIO MEDICAL |
| 271 | Secure Medical Tags For Reducing Medical Errors & Drug Interaction With EHR System | BIO MEDICAL |
| 272 | Monitoring Human Joint Movement Using Wearable Computing | BIO MEDICAL |

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| 273 | Accessible Electronic Interaction for People with Partial Paralysis | BIO MEDICAL |
| 274 | Speech Based Control and Alert System for Senior Citizens Using Android Mobile | BIO MEDICAL |
| 275 | Wireless Power Transmission For Biomedical Application | BIO MEDICAL |
| 276 | Health at the Home: Remote Health Monitoring for Patients and Senior Citizens at the home by using Centralized Web Server | BIO MEDICAL |
| 277 | Wireless Power Transmission For Biomedical Application | BIO MEDICAL |

VLSI IEEE 2015 PROJECTS New

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| 278 | A fast and accurate network-on-chip timing simulator with a flit propagation model |
| 279 | A Methodology for Cognitive NoC Design |
| 280 | A packet-switched interconnect for many-core systems with BE and RT service |
| 281 | FPGA based design of low power reconfigurable router for Network on Chip (NoC) |
| 282 | Reliable router architecture with elastic buffer for NoC architecture |
| 283 | Design and analysis of 10 port router for network on chip (NoC) |
| 284 | Concentration and Its Impact on Mesh and Torus-Based NoC Performance |
| 285 | Effect of core ordering on application mapping onto mesh based network-on-chip design |
| 286 | Merged switch allocation and transversal with dual layer adaptive error control for Network-on-Chip switches |
| 287 | Argo: A Real-Time Network-on-Chip Architecture With an Efficient GALS Implementation |
| 288 | High Speed Modified Booth Encoder Multiplier for Signed and Unsigned Number |
| 289 | Design and implementation of 16 × 16 multiplier using Vedic mathematics |
| 290 | Low power multiplier architectures using vedic mathematics in 45nm technology for high speed computing |
| 291 | Design of area and power aware reduced Complexity Wallace Tree multiplier |
| 299 | FPGA implementation of vedic floating point multiplier |
| 300 | FPGA based design of low power reconfigurable router for Network on Chip (NoC) |
| 301 | VHDL Implementation of Genetic Algorithm for 2-bit Adder |
| 302 | Efficient FPGA Implementation of Address Generator for WiMAX Deinterleaver |
| 303 | Simulation and Implementation of LDPC Code in FPGA |
| 304 | FPGA Implementation of Moving Object Detection in Frames by Using Background Subtraction Algorithm |

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| 305 | Traffic-aware Design of a High Speed FPGA Network Intrusion Detection System |
| 306 | VLSI Implementation of an adaptive edge enhanced image scalar for real-time multimedia applications |
| 307 | FPGA Implementation of ANN for Reactive Routing Protocols in MANET |
| 308 | Low Power VLSI Implementation of Adaptive Noise Canceller Based on Least Mean Square Algorithm |
| 309 | FPGA Architecture for OFDM Software Defined Radio with an optimized Direct Digital Frequency Synthesizer |
| 310 | Optimized Implementation of Discrete Wavelet Transform with Area Efficiency |
| VLSI IEEE 2014-2013 PROJECTS Recent Papers | |
| 311 | Design and verification of five port router for network on chip |
| 312 | Instruction-based high-efficient synchronization in a many-core Network-on-Chip processor |
| 313 | Argo: A Time-Elastic Time-Division-Multiplexed NOC Using Asynchronous Routers Efficient round-robin multicast scheduling for input-queued switches |
| 314 | An area- and power-efficient FIFO with error-reduced data compression for image/video processing |
| 315 | An Area- and Energy-Efficient FIFO Design Using Error-Reduced Data Compression and Near-Threshold Operation for Image/Video Applications |
| 316 | Design and Implementation of an On-Chip Permutation Network for Multiprocessor System-On-Chip. |
| 317 | Area and time efficient hardwired pre -shifted bi-rotation CORDIC design |
| 318 | Smart Reliable Network-on-Chip |
| 319 | A new mode of operation for arbiter PUF to improve uniqueness on FPGA |
| 320 | ElastiStore: An elastic buffer architecture for Network-on-Chip routers |
| 321 | UnSync: A Soft Error Resilient Redundant Multicore Architecture FPGA based asynchronous pipelined multiplier with intelligent delay controller |
| 322 | Design of high speed low power Viterbi decoder for TCM system |
| 323 | CORDIC Designs for Fixed Angle of Rotation. |
| 324 | MIHST: A Hardware Technique for Embedded Microprocessor Functional On-Line Self-Test |
| 325 | Headfirst sliding routing: A time-based routing scheme for bus-NoC hybrid 3-D architecture |
| 326 | An Area Effective Parity-Based Fault Detection Technique for FPGAs |
| 327 | Vendor agnostic, high performance, double precision Floating Point division for FPGAs |
| 328 | Method of modeling analog circuits in verilog for mixed-signal design simulations |
| IEEE based Project Titles-Electrical Engineering Projects | |
| 329 | Digital Fuel Indicator With Petrol Level Detection Using Android Mobile And Automatic Signalling System Using RF TX And RX |

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| 330 | Wireless Transformer Parameter Measurement And Protection |
| 331 | Intelligent Contractor For High Power Motors |
| 332 | Demand Side Load Management of Smart Grids Using Intelligent Trading Metering Billing |
| 335 | Fault & Overload Detection & Correction IN AC Motor With ON And OFF Control |
| 336 | Fault Dedection & Correction IN DC Motor |
| 337 | Wireless power theft monitoring system |
| 338 | Design and Implementation of a Bi-directional Power Converter for Electric Bike with Charging Feature. |
| 339 | Implementation of Solar Illumination System with Three-Stage Charging and Dimming Control Function |
| 340 | Industrial Automation Using ZIGBEE |
| 341 | Laboratory Automation by Mobile Device using Bluetooth Technology |
| 342 | Solar powered house and transmitting the extra power to the government mains |
| 343 | Renewable energy - 12V DC Power generation using Back EMF & Solar for LED load |
| 344 | Solar powered Irrigation with auto control of pump & SMS alert |
| 345 | Automatic stand-by power cutoff outlet for 230V AC operated devices for energy saving |
| 346 | Zero Standby Power Remote Control System |
| 347 | ARM Based Wireless Meter Reading System with Overload, Power theft Detection and Server Based SMS Alert |
| 348 | Coin Based Mobile Charger ,Water Filing And Weight Measurement System |
| 349 | Sensor Network Bases Oil Well Health Monitoring And Intelligent Control |
| 350 | Remote virtual lab for research & designing industry using wireless technology |
| 351 | Android Building Automation for Mobile Device using GSM Technology |
| 352 | Building Lighting Automation through the Integration with Wireless Sensor Network |
| 353 | Multistage Water Pumping By Connecting Cascade of Low Power Motors Using Solar Power with Automatic Water Level Controller |
| 354 | IEEE 802.3U Based I-series Refrigerator |
| 355 | Rotating solar system for automobiles with Boost & charge control |
| 356 | A Real Time Traffic Light Control Scheme For Reducing Vehicles CO2 Emissions |
| 357 | Axis Stepper Motor Control For Solar Panel With Power Optimization |
| 358 | Discrete PID Controller For Temperature Compensation |
| 359 | Multiple Transformers Oil Temperature Monitoring With Automatic Circuit Breaker Operation |
| 360 | Transformer Parameter (Load, Voltage And Oil Level) Measurement With GSM Alert |
| 361 | Energy Conversation System For Smart Homes Based On Cloud Network |
| 362 | Application of Intelligent Sun Tracking System With Fuzzy Chip Controller |
| 363 | Digital Fuel level Indicator with Vehicle tracking system using GSM and GPS |
| 364 | Implementation Of A Remote Data Logging System |
| 365 | Intensity of street light automatic controlling |
| 366 | Multi-Channel Data Acquisition and Data Logging for Green House Application |
| 367 | Performance Analysis of Dual-axis Solar Tracking System |
| 368 | Smart Lighting solutions for Smart Cities |
| 369 | Solar Maximum Power Point Tracking System And Its Application To Greenhouse |
| 370 | Surveillance System with Light Sensor |

| E&C AND TELECOMMUNICATION/Bio Medical/Electrical and Electronics/Robotics IEEE Projects | |
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| 371 | Application of Intelligent Sun Tracking System With Fuzzy Chip Controller |
| 372 | Automatic anti collision railway system using embedded system technology. |
| 373 | Child Activity Recognition Based on Cooperative Fusion Model of Tri-axial Accelerometer and a Barometric Pressure Sensor. |
| 374 | Implementation of a Web of Things based Smart Grid To remotely monitor and control Renewable Energy Sources |
| 375 | Home automation and security control interface using GSM |
| 376 | Industrial automation on android phone by using GSM |
| 377 | Microcontroller based Neural network controlled low cost Autonomous vehicle |
| 378 | Patient request to nurse using flex sensor |
| 379 | Intensity of street light automatic controlling. |
| 380 | Digital Fuel level Indicator with Vehicle tracking system using GSM and GPS |
| 381 | Eye Blink Sensor for automatic Wheel Chair for paralyzed patients |
| 382 | GSM Based Baby Breathing System. |
| 383 | GSM based cubicle security system |
| 384 | Performance Analysis of Dual-axis Solar Tracking System |
| 385 | Real time Tele health monitoring system |
| 386 | Smart Lighting solutions for Smart Cities |
| 387 | Solar Maximum Power Point Tracking System And Its Application To Greenhouse |
| 388 | Solar tracking system using microcontroller |
| 389 | Theft intimation of vehicle over SMS to owner who can stop the engine remotely |
| 390 | Thermistor Respiratory Monitor |
| 391 | Alive Human Being Detector in War Fields, Affected Areas Using RF Camera and PIR (Passive Infrared Sensors) For Rescue Operations with Communication |
| 392 | An Adaptable and Extensible Mobile Sensing Framework for Patient Monitoring |
| 393 | Android Based Home automation and security control interface using GSM |
| 394 | Application of RF ID & Spanning tree algorithm for solving the Vehicle Emission in City on Internet of Things |
| 395 | Asset tracking system using GSM & GPS |
| 396 | Design and Implementation of Vehicle Tracking System Using GPS/GSM/GPRS Technology and Smart phone Application |
| 397 | Pick and place robot using wireless technology for embedded application |
| 398 | Real time vehicle tracking system |
| 399 | Surveillance System with Light Sensor |
| 400 | The design of the scene of the accident alarm system Based on GSM and GPS. |
| 401 | Design and Development of a Networked Health Monitoring and Control System |
| 402 | Implementation of a remote data logging system |
| 403 | A multi-parameter signal monitoring system based on ARM |
| 404 | Performance Analysis of Dual-axis Solar Tracking System |
| 405 | ARM Hardware Platform for Vehicular Monitoring and Tracking |

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| 406 | Automated Irrigation System Using a Wireless Sensor Network and GPRS Module |
| 407 | IOT Gateway: Bridging Wireless Sensor Networks into Internet of Things |
| 408 | Design and Construction of Mini-Robot for Gas LP Detection Using a Mobile Device |
| 409 | Design and implementation of Real time Tele Embedded Tele –Health Monitoring system |
| 410 | Design of On-line Interactive Data Acquisition and Control System for Embedded Real Time Applications |
| 411 | Evidence Collection from Car Black Boxes using Smart phones |
| 412 | Intelligent Early-warning System for Landslides Based on the ZigBee Network |
| 413 | Participatory Sensing Based Real time Public transport Information Services |
| 414 | Design of Rural Intelligent Public Transportation System |
| 415 | Visual Odometry and Localization of Moving Objects in Images Acquired by Unmanned Aerial Vehicles. |
| Raspberry Pi and Linux Based Projects List | |
| 416 | Autonomous Navigation Vehicle (Raspberry Pi- Linux) |
| 417 | Ethernet Controlled Robot on Linux Raspberry Pi |
| 418 | GSM SMS controlled Robot – Raspberry Pi |
| 419 | Web server control industrial Equipment Linux Raspberry Pi |
| 420 | Web server Controlled Robot on Linux Raspberry Pi |
| 421 | Keyboard HID controlled Robot on Linux Raspberry Pi |
| 422 | Obstacle avoidance robot on raspberry pi |
| 423 | People counting System and Web server monitor system |
| 424 | Remote sensors monitor system web server on Linux Raspberry Pi |
| 425 | Smart home with vision based surveillance system on Linux |
| 426 | Smart Phone Controlled Robot for Video Surveillance Using Wireless Internet & Raspberry Pi Processor |
| 427 | Smart phone controlled robot on raspberry pi Linux system |
| 428 | Voice controlled industrial equipment on raspberry pi |
| 429 | Voice controlled robot using smart phone on raspberry pi |
| 430 | Wi-Fi Controlled Robot on Linux Raspberry Pi |
| Arm Cortex-M4 Technology based Projects | |
| | Smart Phone 3 - AXIS CONTROLLED ROBOT On ARM Cortex-M4 |
| 431 | Smart Phone Bluetooth Pick and Drop Robot On ARM Cortex-M4 |
| 432 | Laptop Bluetooth controlled Pick and Drop Robot On ARM Cortex-M4 |
| 433 | PC Controlled Robot over RF On ARM Cortex-M4 |
| 434 | Home Automation controlled over Smart Phone |
| 435 | Remote environment monitor system and SMS alert On ARM cortex-M4 with GSM Technology |
| 436 | Hand Gesture controlled robot for handicap people on ARM cortex-4 technology |
| 437 | Autonomous Navigation Robot for rescue On ARM Corext-M4 |
| 438 | Line Maze Solving Robot on ARM cortex-M4 |
| 439 | Voice Controlled Robot on ARM Cortex-M4 with Android smart device |
| 440 | Voice Controlled smart home on ARM Cortex-M4 with Android smart device |
| 441 | Ethernet controlled Pik and place robot on ARM cortex-M4 |
| 442 | Remote sensor monitor system (internet of things) on ARM Cortex-M4 |

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| 443 | Ethernet controlled remote equipment system (internet of things) on ARM Cortex-M4. |
| 444 | Keyboard HID Keys controlled Robot – ARM Cortex-M4 |
| IEEE based Project Titles-Instrumentation Engineering | |
| 445 | Novel Design Solutions for Remote Access, Acquire and Control of Laboratory Experiments on DC Machines |
| 446 | An Integrated System for Regional Environmental Monitoring and Management Based on Internet of Things |
| 447 | Design and Implementation of Client-Server based Remote Motor Control System Industrial Applications |
| 448 | A Reconfigurable Smart Sensor Interface for Industrial WSN to IoT Environment |
| 449 | Integration of Touch Technology in Restaurants using Android |
| 450 | Innovative Graphical Passwords using Sequencing and Shuffling Together |
| 451 | Examining market challenges pertaining to cold chain in the frozen food industry in Indian retail sector |
| 452 | Robotic automated food service provider is hotel with android based individual menu system |
| 453 | Coin Based Universal Mobile Battery Charger, Purified Drinking Water with Emergency Alert System |
| 454 | Remote virtual lab for research & development industry using wireless technology |
| 455 | Intelligent Food Management System: Maintenance of Agro and Non-Agro Foods in Cold Storage/Warehouse |
| 456 | LI-FI Communication |
| 457 | Transport/Travel Management System: Detection of Aggressive driving of commercial vehicles, along with Fuel theft detection, using centralized web server |

MATLAB IEEE 2015 PROJECTS

| S.NO | MATLAB IEEE 2015 PROJECT TITLES | YEAR |
|------|--|--------------|
| 1 | Contributions to Automatic Target Recognition Systems for Underwater Mine Classification | IEEE 2015 |
| 2 | High-Precision, Permanently Stable, Modulated Hopping Discrete Fourier Transform | IEEE 2015 |
| 3 | A Joint QRS Detection and Data Compression Scheme for Wearable Sensors | IEEE 2015 |
| 4 | Time–Frequency Joint Sparse Channel Estimation for MIMO-OFDM Systems | IEEE 2015 |
| 5 | Performance of OFDM Systems With Best-m Feedback, Scheduling, and Delays for Uniformly Correlated Sub channels | IEEE 2015 |

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| 6 | Authenticating Using Secret Key in Digital Video Watermarking Using 3-Level DWT | IEEE 2015 |
| 7 | Hybrid MIMO-OFDM System with Application to Image Transmission | IEEE 2015 |
| 8 | Robust and high capacity watermarking for image based on DWT-SVD | IEEE 2015 |
| 9 | Power Efficient Scattered Pilot Channel Estimation for FBMC/OQAM | IEEE 2015 |
| 10 | Performance Analysis of Fast Tracking Equalization for SC-FDMA and OFDM systems under multipath fading environment | IEEE 2015 |
| 11 | On Demand SINR based Scheduling Algorithm (ODSSA) for Mobile Uplink Communication in LTE Networks | IEEE 2015 |
| 12 | Hybrid Compression of Hyperspectral Images Based on PCA With Pre-Encoding Discriminant Information | IEEE 2015 |
| 13 | Secure Reversible Image Data Hiding over Encrypted Domain via Key Modulation | IEEE 2015 |
| 14 | Context-Based Predictor Blending for Lossless Color Image Compression | IEEE 2015 |
| 15 | Reversible Data Hiding in Encrypted Image with distributed source encoding | IEEE 2015 |
| 16 | Nighttime Visibility Analysis and Estimation Method in the Presence of Dense Fog | IEEE 2015 |
| 17 | Using Visual Rhythms for Detecting Video-based Facial Spoof Attacks | IEEE 2015 |
| 18 | Bayesian Fusion of Multi-Band Images | IEEE 2015 |
| 19 | Registration of Images With N-Fold Dihedral Blur | IEEE 2015 |
| 20 | A Novel SURE-Based Criterion for Parametric PSF Estimation | IEEE 2015 |
| 21 | Histogram-Based Locality-Preserving Contrast Enhancement | IEEE 2015 |
| 22 | ICI Self-Cancellation with Cosine Windowing in OFDM transmitters Over Fast Time-Varying Channels | IEEE 2015 |

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| 23 | Convergence Constrained Multiuser Transmitter-Receiver Optimization in Single-Carrier FDMA | IEEE 2015 |
| 24 | Beamforming for Multiuser MIMO-OFDM Interference Channels With Multipath Diversity | IEEE 2015 |
| 25 | An Efficient MRF Embedded Level Set Method for Image Segmentation | IEEE 2015 |
| 26 | Robust Clutter Suppression and Moving Target Imaging Approach for Multichannel in Azimuth High-Resolution and Wide-Swath Synthetic Aperture Radar | IEEE 2015 |
| 27 | Optimizing Template for Lookup-Table Inverse Half toning using Elitist Genetic Algorithm | IEEE 2015 |
| 28 | An Improved PFA With Aperture Accommodation for Wide field Spotlight SAR Imaging | IEEE 2015 |
| 29 | A New Framework for SAR Multitemporal Data RGB Representation: Rationale and Products | IEEE 2015 |
| 30 | Indicator Cokriging-Based Subpixel Mapping Without Prior Spatial Structure Information | IEEE 2015 |
| 31 | Contributions to Automatic Target Recognition Systems for Underwater Mine Classification | IEEE 2015 |
| 32 | Features, Color Spaces, and Boosting: New Insights on Semantic Classification of Remote Sensing Images | IEEE 2015 |
| 33 | Continuous One-Way Detection of Available Bandwidth Changes for Video Streaming Over Best-Effort Networks | IEEE 2015 |
| 34 | Compressed-Domain Ship Detection on Space borne Optical Image Using Deep Neural Network and Extreme Learning Machine | IEEE 2015 |
| 35 | An Intelligent Monitoring System for Natural Gas Odorization | IEEE 2015 |
| 36 | Feature Matching With an Adaptive Optical Sensor in a Ground Target Tracking System | IEEE 2015 |
| 37 | A Novel Colorless FPLD Packaged With TO-Can for 30-Gbit/s Pre-amplified 64-QAM-OFDM Transmission | IEEE 2015 |
| 38 | Quantum Spread Spectrum Multiple Access | IEEE 2015 |
| 39 | New RLL Decoding Algorithm for Multiple Candidates in Visible Light Communication | IEEE 2015 |

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| 40 | Multi-Tap Equalization for Performance Improvement in Optical Fast OFDM Systems | IEEE 2015 |
| 41 | A Multistage CPE Scheme Based on Crossed Constellation Transformation for M-QA | IEEE 2015 |
| 42 | Efficient Chromatic Dispersion Precompensation for Coherent Optical OFDM | IEEE 2015 |
| 43 | Gaussian Conditional Random Fields for Aggregation of Operational Aerosol Retrievals | IEEE 2015 |
| 44 | Robust Clutter Suppression and Moving Target Imaging Approach for Multichannel in Azimuth High-Resolution and Wide-Swath Synthetic Aperture Radar | IEEE 2015 |
| 45 | Capabilities of BIOMASS Tomography for Investigating Tropical Forests | IEEE 2015 |
| 46 | Soil Moisture Estimation Under Tropical Forests Using UHF Radar Polarimetry | IEEE 2015 |
| 47 | A Novel Range Grating Lobe Suppression Method Based on the Stepped-Frequency SAR Image | IEEE 2015 |
| 48 | Multi-Task Bayesian Compressive Sensing Exploiting Intra-Task Dependency | IEEE 2015 |
| 49 | Joint Power Splitting and Antenna Selection in Energy Harvesting Relay Channels | IEEE 2015 |
| 50 | Compressive Sensing and Reception for MIMO-OFDM Based Cognitive Radio | IEEE 2015 |
| 51 | Improved Lip Contour Extraction For Visual Speech Recognition | IEEE 2015 |
| 52 | Recognition of Genuine Smiles | IEEE 2015 |
| 53 | Spatio-Temporal Flame Modelling and Dynamic Texture Analysis for Automatic Video-Based Fire Detection | IEEE 2015 |
| 54 | DietCam: Multi-View Food Recognition Using a Multi-Kernel SVM | IEEE 2015 |
| 55 | Spectrum Allocation in Cognitive Radio Networks using Multi-Objective Differential Evolution Algorithm | IEEE 2015 |
| 56 | Multiview Alignment Hashing for Efficient Image Search | |
| 57 | Learning to Rank Image Tags With Limited Training Examples | |

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| 58 | Learning Fingerprint Reconstruction: From Minutiae to Image | |
| 59 | Detection and Rectification of Distorted Fingerprints | |
| 60 | Automatic Face Naming by Learning Discriminative Affinity Matrices From Weakly Labeled Images | |
| 61 | Approximation and Compression with Sparse Orthonormal Transforms | |
| 62 | Adaptive Regularization With the Structure Tensor | |
| 63 | Accurate Vessel Segmentation With Constrained B-Snake | |
| 64 | Structured Sparse Priors for Image Classification | |
| 65 | Enhancement of Textural Differences Based on Morphological Component Analysis | |
| 66 | Learning Compact Feature Descriptor and Adaptive Matching Framework for Face AT&SIP001 - Recognition | |
| 67 | Video Deraining and Desnowing Using Temporal Correlation and Low-Rank Matrix Completion | |
| 68 | Spectral Laplace-Beltrami Wavelets With Applications in Medical Images | |
| 69 | Transfer Learning Improves Supervised Image Segmentation Across Imaging Protocols | |
| 70 | Nonparametric Hemodynamic Deconvolution of FMRI Using Homomorphic Filtering | |
| 71 | Brain Metastases Detection Methods in Magnetic Resonance Imaging | IEEE 2016 |
| 72 | Two-Way OFDM-Based Nonlinear Amplify-and-Forward Relay Systems | IEEE 2016 |

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| 73 | Robust Cell Detection of Histopathological Brain Tumor Images Using Sparse Reconstruction and Adaptive Dictionary | IEEE 2016 |
| 74 | A Novel Approach to Segment Skin Lesions in Dermoscopic Images Based on a Deformable Model | IEEE 2016 |
| 75 | Lifetime and Energy Hole Evolution Analysis in Data-Gathering Wireless Sensor Networks | IEEE 2016 |
| 76 | Hybrid Modulation Scheme for a High-Frequency AC-Link Inverter | IEEE 2016 |
| 77 | A Capacitor Voltage-Balancing Method for Nested Neutral Point Clamped (NNPC) Inverter | IEEE 2016 |
| 78 | Design and Development of an Efficient Multilevel DC/AC Traction Inverter for Railway | IEEE 2016 |
| 79 | Modeling and Analysis of Class EF and Class E/F Inverters With Series-Tuned Resonant Networks | IEEE 2016 |
| 80 | Dynamic Cluster Head Selection Method for Wireless Sensor Network | IEEE 2016 |
| 81 | Texture Classification Using Dense Micro-Block Difference | IEEE 2016 |
| 82 | Three-Level PWM Floating H-Bridge Sine wave Power Inverter for High-Voltage and High-Efficiency Applications | IEEE 2016 |
| 83 | Delay-Dependent Stability Control for Power System With Multiple Time-Delays | IEEE 2016 |
| 84 | An Efficient SVD-Based Method for Image Denoising | IEEE 2016 |
| 85 | Unsupervised SAR Image Change Detection Based on SIFT Key points and Region Information | IEEE 2016 |

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| 86 | A Micro-GA Embedded PSO Feature Selection Approach to Intelligent Facial Emotion Recognition | IEEE 2016 |
| 87 | Unsupervised Deep Learning Applied to Breast Density Segmentation and Mammographic Risk Scoring | IEEE 2016 |
| 88 | An Empirical Study for PCA- and LDA-Based Feature Reduction for Gas Identification | IEEE 2016 |
| 89 | Analyzing the Effect of JPEG Compression on Local Variance of Image Intensity | IEEE 2016 |
| 90 | Amplify-and-Forward Relay Sharing for Both Primary and Cognitive Users | IEEE 2016 |
| 91 | Design and Implementation of a Novel Multilevel DC–AC Inverter | IEEE 2016 |
| 92 | High Performance Personalized Heartbeat Classification Model for Long-Term ECG Signal | IEEE 2016 |
| 93 | Fast Appearance Modeling for Automatic Primary Video Object Segmentation | IEEE 2016 |
| 94 | On the Permanence of EEG Signals for Biometric Recognition | IEEE 2016 |
| 95 | A New Cascaded Switched-Capacitor Multilevel Inverter Based on Improved Series–Parallel Conversion With Less Number of Components | IEEE 2016 |
| 96 | Analysis and Design of Modified Half-Bridge Series-Resonant Inverter With DC-Link Neutral-Point-Clamped Cell | IEEE 2016 |
| 97 | Spectrum Sensing Performance in Cognitive Radio Networks With Multiple Primary Users | IEEE 2016 |
| 98 | Reversible Data Hiding in Encrypted Images y Reversible Image Transformation | IEEE 2016 |
| 99 | Self-Deployment Of Mobile Sensors To Achieve Target Coverage In The Presence Of Obstacles | IEEE 2016 |

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| 100 | Energy-Efficient Infrastructure Sensor Network for Ad Hoc Cognitive Radio Network | IEEE 2016 |
| 101 | A Novel Zero-Voltage-Switching Push–Pull High-Frequency-Link Single-Phase Inverter | IEEE 2016 |
| 102 | Combining Generative and Discriminative Representation Learning for Lung CT Analysis with Convolutional Restricted Boltzmann Machines | IEEE 2016 |
| 103 | A Novel Three-Phase Current Source Rectifier With Delta-Type Input Connection to Reduce the Device Conduction Loss | IEEE 2016 |
| 104 | Reliability Evaluation of Large Scale Battery Energy Storage Systems | IEEE 2016 |
| 105 | Economic dispatch of power systems with virtual power plant based interval optimization method | IEEE 2016 |
| 106 | DBR-MAC: A Depth-Based Routing Aware MAC Protocol for Data Collection in Underwater Acoustic Sensor Networks | IEEE 2016 |
| 107 | DietCam: Multiview Food Recognition Using a Multikernel SVM | IEEE 2016 |
| 108 | Unsupervised Deep Feature Extraction for Remote Sensing Image Classification | IEEE 2016 |
| 109 | Robust Blur Kernel Estimation for License Plate Images From Fast Moving Vehicles | IEEE 2016 |
| 110 | Lung Pattern Classification for Interstitial Lung Diseases Using a Deep Convolutional Neural Network | IEEE 2016 |
| 111 | Energy-Efficient Clustering Using Correlation and Random Update Based on Data Change Rate for Wireless Sensor Networks | IEEE 2016 |
| 112 | On the Energy Efficiency and Effective Throughput Tradeoff of Fading Channels | IEEE 2016 |
| 113 | Machine Learning Methods for Binary and Multiclass Classification of Melanoma Thickness From Dermoscopic Images | IEEE 2016 |

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| 114 | An Efficient Bayesian PAPR Reduction Method for OFDM-Based Massive MIMO Systems-MATLAB COMMUNICATION | IEEE 2016 |
| 115 | Domain Specific Learning for Newborn Face Recognition | IEEE 2016 |
| 116 | Self-Deployment of Randomly Scattered Mobile Sensors to Achieve Barrier Coverage | IEEE 2016 |
| 117 | Improved Tampering Localization in Digital Image Forensics Based on Maximal Entropy Random Walk | IEEE 2016 |
| 118 | Improving Saliency Detection Via Multiple Kernel Boosting and Adaptive Fusion | IEEE 2016 |
| 119 | An equalized global graph model-based approach for multi-camera object tracking | IEEE 2016 |
| 120 | An Accurate ECG-Based Transportation Safety Drowsiness Detection Scheme | IEEE 2016 |
| 121 | Development and Comparison of an Improved Incremental Conductance Algorithm for Tracking the MPP of a Solar PV Panel | IEEE 2016 |
| 122 | Epileptic Seizure Prediction Based on Multivariate Statistical Process Control of Heart | IEEE 2016 |
| 123 | A Novel Approach for Denoising and Enhancement of Extremely Low-light Video | IEEE 2016 |
| 124 | Recognizing Common CT Imaging Signs of Lung Diseases Through a New Feature Selection Method Based on Fisher Criterion and Genetic Optimization | IEEE 2016 |
| 125 | Automatic Change Analysis in Satellite Images Using Binary Descriptors and Lloyd–Max Quantization | IEEE 2016 |
| 126 | Spatiotemporal Saliency Detection for Video Sequences Based on Random Walk With Restart | IEEE 2016 |

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| 127 | An Optimal-Distance-Based Transmission Strategy for Lifetime Maximization of Wireless Sensor Networks | |
| 128 | Influences of Power Electronic Converters on Voltage-Current Behaviors During Faults in DGUs-Part II: Photovoltaic Systems | |
| 129 | Successive Interference Mitigation in Multiuser MIMO Interference Channels | |
| 130 | Flying-Capacitor Based Hybrid LLC Converters with Input Voltage Auto-Balance Ability for High Voltage Applications | |
| 131 | Image Super-Resolution Based on Structure-Modulated Sparse Representation | |
| 132 | Dynamic Channel Assignment for Wireless Sensor Networks: A Regret Matching Based Approach | |
| 133 | Noninvasive Real-Time Automated Skin Lesion Analysis System for Melanoma Early Detection and Prevention | |
| 134 | Acoustic features for the identification of coronary artery disease | |
| 135 | Enhancement of Textural Differences Based on Morphological Component Analysis | |
| 136 | Cognitive and Energy Harvesting-Based D2D Communication in Cellular Networks: Stochastic Geometry Modeling and Analysis | |
| 137 | Hierarchical Graphical Models for Simultaneous Tracking and Recognition in Wide-Area Scenes | |
| 138 | Quasi Y-Source Boost DC-DC Converter | |
| 139 | Background Subtraction Based on Low-Rank and Structured Sparse Decomposition | |

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| 140 | Optimal Channel Switching Over Gaussian Channels Under Average Power and Cost Constraints | |
| 141 | Word Segmentation Method for Handwritten Documents based on Structured Learning | |
| 142 | Mutual dependency of features in multimodal biometric systems | |
| 143 | Implementation of Wavelet Based Robust Differential Control for Electric Vehicle Application | |
| 144 | Learning Compact Feature Descriptor and Adaptive Matching Framework for Face Recognition | |
| 145 | Automatic localization and segmentation of optic disc in fundus image using morphology and level set | |
| 146 | Adaptive Image Denoising by Targeted Databases | |
| 147 | Sorted Consecutive Local Binary Pattern for Texture Classification | |
| 148 | Impacts of Deployment Strategies on Localization Performance in Underwater Acoustic Sensor Networks | |
| 149 | A Novel Image Classification Algorithm Using Over complete Wavelet Transforms | |
| 150 | Neighborhood Discriminant Hashing for Large-Scale Image Retrieval | |
| 151 | Joint Image Registration and Fusion for Panchromatic and Multispectral Images | |
| 152 | Ground-Based Cloud Detection Using Automatic Graph Cut | |
| 153 | Distributed Compressed Sensing off the Grid | |
| 154 | GaN Devices in Resonant LLC Converters: System-level considerations | |

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| 155 | Multilevel voltage source inverter with optimized usage of bidirectional switches | |
| 156 | Topological Modeling and Classification of Mammographic Micro calcification Clusters | |
| 157 | A Contrast Adjustment Thresholding Method for Surface Defect Detection Based on Mesoscopy | |
| 158 | Particle Swarm Optimization-Based Clustering by Preventing Residual Nodes in Wireless Sensor Networks | |
| 159 | Improving Dermoscopy Image Classification Using Color Constancy | |