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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 smartphones. |
| 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 |

EMBEDDED LIST

1. ROBOTICS

| SI NO | PROJECT CODE | PROJECT TITLE | DESCRIPTION | IEEE (YEAR) |
|-------|--------------|--|--|-------------|
| 1 | RB1 | A Robot that Approaches Pedestrians | In this paper we reported the development of technique that allows a robot to approach walking people, particularly visitors in shopping mall. | 2013 |
| 2 | RB2 | Front sensor And GPS Based lateral Control of Automated Vehicles | This work Proposes An Automated steering control System for passenger cars. Feasibility of a control strategy based on a front sensor and a GPS | 2013 |
| 3 | RB3 | A Compact and Compliant External Pipe- Crawling Robot | The focus of this paper is on the practical aspects of design, prototyping, and testing of a compact, compliant external pipe-crawling robot that can inspect a closely spaced bundle of pipes in hazardous environments and areas that is inaccessible to humans. | 2013 |
| 4 | RB4 | Customized Ultra High Frequency Radio Frequency | RFID is being adopted more and more in many contexts, including robotics, where it is used as | 2013 |

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| | | Identification Tags and Reader Antennas Enabling Reliable Mobile Robot Navigation | supplementary support for the navigation and localization of robots. Indeed, when an RFID reader placed on the robot reads a tag marking a certain map point, specific algorithms can be used to estimate tag and/o robot position. | |
| 5 | RB5 | Dynamic Ultrasonic Hybrid Localization System for Indoor Mobile Robots | An accurate dynamic ultrasonic hybrid localization system is presented for autonomous navigation of indoor mobile robots using multiple ultrasonic distance measurements and an Extended Kalman filter. | 2013 |
| 6 | RB06 | A Novel Surgical Manipulator with Workspace-Conversion Ability for Tele surgery | This paper proposes a surgical manipulator with workspace conversion ability for both minimally invasive surgery (MIS) and open surgery. The focus of the proposed surgical manipulator is on its potential use in places such as battlefields, Army camps, and rural areas rather than in civilian hospital. | 2013 |
| 7 | RB7 | Automatic Lighting System Using Multiple Robotic Lamps | An automatic lighting system using 3-DOF robotic lamps and a laser scanner is proposed in this paper. The 3-DOF Robotic lamp, which is designed with a spherical parallel mechanism with a unique forward kinematic solution, has a tilting motion to control the light intensity. | 2013 |
| 8 | RB8 | Towards a New Modality Independent Interface for a Robotic Wheelchair | This work presents the development of a robotic wheelchair that can be commanded users can command the wheelchair based on their eye blinks, eye movements, head movements, by sip-and puff and through brain signals. | 2013 |
| 9 | RB9 | Minimal Grasper: A Practical Robotic Grasper With Robust Performance for Pick-and-Place Tasks | In this paper, a flexible enveloping grasper is proposed for pick-and-place tasks with low manipulation and task planning complexity for practical applications. The proposed Grasper has two main char: self-adaptively and flexibility. | 2013 |
| 10 | RB10 | Self-recognition of Vehicle Position Using UHF Passive RFID Tags | In this paper proposes the position of the robot will automatically estimate. Without human interaction it will navigate from one place to another place.. | 2013 |

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|----|------|---|---|------|
| 11 | RB11 | Multiple Working Mode Control of Door-Opening With a Mobile Modular and Reconfigurable Robot | In this paper robot is used for household applications. It automatically does the operations based on the command received from the user. | 2013 |
| 12 | RB12 | Smart Host Microcontroller for Optimal Battery Charging in a solar powered Robotic Vehicle | This paper proposes a solar powered robot vehicle. It absorbs energy from solar and the energy will be stored in the battery | 2012 |
| 13 | RB13 | An Autonomous Robot Based on a Wheelchair | This robot is based on wheel chair. It moves from one place to another place. The sensor interfaced with this robot finds the obstacles means using GPS the location will display. | 2012 |
| 14 | RB14 | Autonomous Navigation Robot for landmine Detection Applications. | This Robot is designed for landmine applications. The detection sensor is fixed in robot. If it detects means send alert information to the control section | 2012 |
| 15 | RB15 | Wireless vision Based stabilization of Indoor Micro-helicopter | This Paper introduces small size helicopter for spy applications. Using wireless camera we can identify the exact location. | 2012 |
| 16 | RB16 | Construction of an obstacle Map and its Real-time Implementation on an Unmanned Ground vehicle. | The objective of this paper is to develop and implement a UGV control system utilizing embedded micro-controllers. This control system must enable the UGV to navigate using GPS to the waypoints while avoiding obstacles discovered in its path. | 2011 |
| 17 | RB17 | Automated Voice Based home navigation System for the elderly and the Physically Challenged | In this paper, we propose an intelligent Home navigation system(IHNS) which comprises of a wheelchair and voice recognition module. It can be used by an elderly or physically challenged person to move inside the home without any difficulty. | 2011 |
| 18 | RB18 | Zigbee based Wireless Sensor Networks for service Robot intelligence space. | The zigbee based wireless sensor networks has been implemented in our service robot intelligent space successfully, which greatly improve the perception of service robot. | 2011 |
| 19 | RB19 | Situation Driven control of a Robotic Wheelchair to follow a caregiver | We have proposed a robotic wheelchair that can move with a caregiver collaboratively depending on the situation. In an open space , it moves with the care giver side by side using MATLAB. This enables easy communication between the wheelchair user and the care giver. | 2010 |
| 20 | RB20 | Autonomous Agricultural Robot and Its Row guidance | It is used to guide a robot platform which is designed independently to drive through the row | 2010 |

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|----|------|--|---|--|
| | | | crops in a field according to the design concept of architecture. | |
| 21 | RB21 | Touch Screen based wheelchair robot for Physically Challenged people | Non- IEEE | |

2. ANDROID

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|----|-----|--|--|------|
| 22 | AN1 | Data acquisition and control using Arduino-Android Platform: Smart plug | In this work we propose to develop a smart plug, an energy monitoring system that provides real time update of the energy consumption at the device level. The proposed device is using an Arduino microcontroller board, an ENC28J60 Ethernet module, and a current transformer sensor. | 2013 |
| 23 | AN2 | Experimental study and Design of Smart Energy Meter for the Smart Grid | This paper presents the development of a GSM and zigbee based smart meter. This meter can measure the energy and send the information to service provider, who can store this information and notify the consumer through SMS message or through the internet. | 2013 |
| 24 | AN3 | Wireless Machine to Machine health care Solution using Android mobile Devices in Global Networks | In this project the biomedical parameters are updated to internet from which through an application in PC the same data is transmitted back to the doctor's Android mobile Through Bluetooth. | 2013 |
| 25 | AN4 | Accessible Display Design to control Home Area Networks | In this paper, we have developed a security system that interfaces with an android mobile device. The mobile device and security system communicate via Bluetooth because a short range only communication system was desired. The mobile application can be loaded onto any compatible device, and once loaded, interface with the security system. | 2013 |
| 26 | AN5 | Smart Public Transportation Services Using Smart Phones In Vehicular Environments | Our objective is to implement a new system that improves the existing shared taxi service by benefiting both the taxi drivers and passengers. The general idea is to design a system whose server receives requests from passenger and offers | 2012 |

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|----|-----|---|--|------|
| | | | from drivers using smart phones with GPS capabilities and internet access(3G/WIFI) | |
| 27 | AN6 | Remotely Controlled Communication and control System for limited mobility individuals | The main objective of the project is to make the system very easier to control the applications by reducing the mobility for the patients. The controlling will be done from wheel chair itself. | 2012 |
| 28 | AN7 | Evaluation of a Smartphone platform as a wireless interface between tongue drive system and Electric Powered Wheelchairs. | This paper describes the controlling of the wheelchair by using tongue. The mobile phone is the interfacing device between the controlling section and the wheelchair section. | 2012 |

3. AUTOMATION

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|----|-----|--|---|------|
| 29 | AT1 | Context-Adaptive Multimodal wireless Sensor Network for Energy-Efficient Gas Monitoring | In this paper a context adaptive gas monitoring system is established to reduce power consumption in home monitoring systems | 2013 |
| 30 | AT2 | Safe Maritime Autonomous Navigation with COLREGS, using Velocity obstacles | Three primary COLREGS rules are considered in this paper: crossing, overtaking, and head on situations, for autonomous USVs to be safely deployed in environments with other traffic boats. | 2013 |
| 31 | AT3 | Embedded Flexible Force Sensor For In-Situ Tire-Road interaction Measurements | In this paper a system is designed to monitor the tire pressure of a running vehicle as tire pressure is more vital in defining a car's feature such as mileage, warranty etc. | 2013 |
| 32 | AT4 | Context Aware Driver Behavior Detection System in Intelligent Transportation System(ITS) | In this paper a system is designed to categorize the driver's behavior into three: normal, fatigue and reckless driving and the counter measures are taken automatically | 2013 |
| 33 | AT5 | Automatic License Plate Recognition (ALPR): A State of the Art review | In this paper using MATLAB the vehicles license plate is captured to extract the license no and it is used in toll collection and to check traffic violation | 2013 |
| 34 | AT6 | Locking and Unlocking of Theft Vehicles using CAN | In this paper a system is designed to avoid vehicle theft using CAN bus. The theft vehicle is stopped very immediately after it has been stolen using this approach. | 2013 |

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|----|------|---|---|------|
| 35 | AT7 | Design of an Intelligent Electric Vehicle for blind | In this paper a system is designed to help blind people to control a wheelchair in two modes: manual, automatic. In manual it is controlled using voice module kit and in auto mode controlled using ultrasonic sensor. | 2013 |
| 36 | AT8 | Design and Development of PIC Microcontroller based Vehicle Monitoring System | In this paper a system is designed using CAN and PIC to monitor the environmental inside the vehicles and display it in a common display. | 2013 |
| 37 | AT9 | The House intelligent Switch control network Based on CAN Bus | In this paper we will control the home appliances using CAN protocol. Switching and human motion detection both methods will be use. | 2013 |
| 38 | AT10 | Design of Distributed Greenhouse big awning Monitoring system Based on field bus | Using this method we will monitor and control the greenhouse parameters using CAN protocol. The Sensor collects data it above threshold means it automatically switches on the corresponding devices. | 2012 |
| 39 | AT11 | Hand-motion Crane Control using radio frequency real time Locations Systems | This paper presents crane control using hand motion. Using RF technology we can control wirelessly. | 2012 |
| 40 | AT12 | Indoor positioning System using Ultrasonic | This paper proposes an ultrasonic based object location identification using RF communication position will displayed in PC. | 2011 |
| 41 | AT13 | Implementation of CAN bus in an autonomous All-terrain vehicle | This paper describes about implementing the CAN bus on Automated vehicles. The proposed consists of multiple node of CAN bus to control. | 2011 |
| 42 | AT14 | Measure and Control System of Soil Moisture of Large Greenhouse Group based on double CAN bus | The measurement and control system of soil moisture of large greenhouse group based on double CAN bus is introduced in this paper. According to the soil moisture level of various nodes the water is fed in to the field using motor. | 2011 |
| 43 | AT15 | Research of Roots Flow meter based on ARM Cortex M3 | This paper introduces an intelligent roots flow meter to measure the gas flow in industries. It uses temperature and pressure sensors to measure gas flow | 2011 |
| 44 | AT16 | Combined Capacitive and Ultrasonic Distance Measurement for Automotive Applications | For the safety applications, the electronic control unit(ECU) of an automotive requires accurate information about size and position of an approaching object. A capacitive and ultrasonic sensor was used to measure the size and position of an obstacle. | 2011 |
| 45 | AT17 | A Hybrid Wired/Wireless Networking Infrastructure for Greenhouse Management | This paper has presented a communication system for the monitoring and control of greenhouses. | 2011 |

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|----|------|---|---|----------|
| | | | Multi protocol system based on zigbee and CAN were used to monitor and control the greenhouses. | |
| 46 | AT18 | A New Method for detecting Leaks in Underground Water Pipelines | Application project | Non IEEE |
| 47 | AT19 | Touch Screen Based home Automation | Application project | Non IEEE |
| 48 | AT20 | Touch Screen Based Vehicle driving System | Application Project | Non IEEE |
| 49 | AT21 | Automatic Irrigation Water supply Monitoring and control System | Application Project | Non IEEE |
| 50 | AT22 | Design and Development of touch screen based ticket vending Machine | Application Project | Non IEEE |

4. WIRELESS

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|----|-----|--|--|------|
| 51 | WL1 | A System for Automotive notification and severity estimation of Automotive Accidents | In this system a VANET is designed in which the information of a road accident is passed through vehicle is moving in the vicinity of the vehicles in region such that it reaches all the vehicles trying to enter into the lane where accident is met. This avoids traffic congestion in roads. | 2013 |
| 52 | WL2 | Zigbee assisted Power Saving Management for Mobile Devices | This paper proposes a power saving architecture for network devices. The low power usage of Zigbee devices is used to control the power on process of WIFI enabled devices, so that power consumption is reduced. | 2013 |
| 53 | WL3 | Low Power Wireless Sensor Network for Building Monitoring | In this paper a system is designed to monitor the vibrations caused in the building due to earthquakes and the stability factor is determined for the stamina of the building to survive a similar or higher earthquakes in prior to take necessary action | 2013 |
| 54 | WL4 | Environment Monitoring and device control using ARM based Embedded Controlled Sensor Network | In this paper environment parameters such as temperature is measured and monitored through zigbee and the devices are controlled either through Zigbee or using GSM. This system use both medium range and wide range protocol | 2013 |
| 55 | WL5 | Wireless Sensor Network Based Smart Home: Sensor | In this paper an elder care system is proposed in which the electrical appliances usage sensor has been developed in a such a way that it can monitor | 2013 |

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|----|------|--|--|------|
| | | Selection, deployment and monitoring | the time and duration of usage of different appliances to monitor the activities of the elders at home. This information is updated in internet so that the care giver can view the information even at remote places. | |
| 56 | WL6 | Optimal demand response capacity of Automatic Lighting Control | In this paper, we proposes to take a systematic optimization based approach to assess demand response capacity of automatic lighting control systems in commercial and office buildings. | 2013 |
| 57 | WL7 | Building a Smart Home system With WSN and Service Robot | This paper examines the possibility of integration WSN and the service robots into smart home applications. The service robots can be considered to be mobile nodes that collects information from wireless sensor nodes and control devices automatically. | 2013 |
| 58 | WL8 | A Zigbee SMS alert System with trust mechanism in Wireless Sensor Networks | In this paper we proposes a novel architecture for alarm generation in wireless sensor zone with the use of trust mechanism. Trust between the sensor nodes is important issue in wireless sensor networks. Trust between the sensor nodes provides the secure, reliable path for data packets and alarm generation, | 2013 |
| 59 | WL9 | Traffic Control System Based Wireless Sensor Technology | According to the requirements of traffic signal control, a new traffic signal control system is developed in this paper. On the existing several kinds of wireless communication are compared and choose the most of them determine the most suitable for application in traffic controller tech in them. | 2013 |
| 60 | WL10 | Passenger Easy Navigation System for Easy Navigation of Blind | To overcome the drawbacks of currently available assistive devices, we propose a wireless sensor network system with zigbee for blind identification by the bus and embedded system for providing the bus no and finally GPS for destination indication. | 2013 |
| 61 | WL11 | Wireless Sensor Network based Home Monitoring System for Wellness Determination of elderly | Here the system function based on the usage data of electrical and Non-electrical appliances within a home by the elderly persons. the current sensor measures the current values consumed and transmitting the data in wireless Zigbee Network | 2012 |
| 62 | WL12 | A Wireless surveillance and safety system For Mine Workers Based on Zigbee | In this paper basic parameter of mine like temperature, abnormal gases, are monitored and intimation is transmitted in wireless mode to the | 2012 |

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|----|------|--|--|----------|
| | | | monitoring section and also gives intimation in mines in voice format. | |
| 63 | WL13 | An Environment monitoring system For precise agriculture based on wireless Sensor networks | In this system the agriculture parameter are obtained and transmitted to receiver section, monitored and uploaded to internet | 2011 |
| 64 | WL14 | More efficient Home energy management System Based on Zigbee communication and infrared controls | The objective of the project is to control the home devices using infrared remote controller and Zigbee communications. This proposed architecture gives more efficient energy saving architecture and home energy management. | 2012 |
| 65 | WL15 | A Forest Fire Monitoring System based on GPRS and Wireless Sensor Networks | In this paper a forest fire monitoring system is built based on ZIGBEE wireless sensor networks and GPRS WIRELESS sensor communication. The objective of this paper is prevention and monitoring of large forest area using wireless communication | 2010 |
| 66 | WL16 | Vehicle detection in no parking area using RF and Magnetic Sensor | Application Project | Non IEEE |
| 67 | WL17 | Intelligence Traffic system for emergency vehicles using Wireless Sensor Networks | Application Project | Non IEEE |

5. GSM AND GPS

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|----|-----|--|---|------|
| 68 | GS1 | Certificate less Remote Anonymous Authentication schemes For Wireless Body Area Networks | Wireless body area network has been recognized as one of the promising wireless sensor technologies for improving healthcare service thanks to its capability of seamlessly and continuously exchanging medical information in real time. | 2013 |
| 69 | GS2 | GSM Based Automatic Energy Meter Reading System with Instant billing | This paper presents the design of a low cost wireless GSM energy meter and its associated web interface, for automatic billing and managing the collected data globally. | 2013 |

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|----|------|---|--|------|
| 70 | GS3 | Energy Management in an Automated Solar Powered irrigation System | This paper gives information about development procedure of an embedded system for off-Grid irrigation System. The design project on developing an intelligent controlling mechanism for best possible utilization of resources for irrigation. | 2013 |
| 71 | GS4 | Hajj crowd Management and Navigation System | This paper explores the solution to track the movement of pilgrims via RFID Technology. A location aware mobile solution will also be integrated to this. | 2013 |
| 72 | GS5 | A Novel Approach to Implement Green Wave System And Detection of Vehicle | We have developed a system which is used to provide clearance to any emergency vehicle by turning all the red lights to green on the path of the emergency vehicle, hence providing a complete green wave to the desired vehicle. | 2013 |
| 73 | GS6 | A New Type of Automatic Alarming Device to Rescue Accident Injured in Time | In this paper a device is designed that can accurately detect an accident and judge crash type by testing whether the device may trigger false alarm when vehicle is during normal driving and sled test of vehicle frontal. | 2013 |
| 74 | GS7 | ARM Hardware Platform for Vehicular Monitoring and Tracking | Design of vehicular monitoring and tracking system based on ARM using GSM and GPM is proposed. The vehicular module is used to track, monitor, and surveillance and find the accident spot and intimate to the monitoring station. | 2013 |
| 75 | GS8 | Wireless Hardware Network for Multi-Storey Building : Design and Implementation | In this paper, a wireless sensor network based multi-story building automation system has been designed, implemented and tested which is used for several application such as indoor. | 2013 |
| 76 | GS9 | An Icing On-Line Monitoring System of Transmission Lines based on WSN | This paper presents a hierarchical wireless sensor network based on Zigbee technology, after analyzing the limitations of communication methods used by existing monitoring system | 2013 |
| | GS10 | Automated Control System for Air Pollution Detection in Vehicle | This whole paper mainly focuses on two things. The first thing is the concept of detecting the level of pollution and indicating it to the driver. The second is that this system will be one of the greatest improvement in technology to keep the environment free from vehicular emission | 2013 |

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|----|------|--|--|------|
| 77 | GS10 | Sun tracking control strategy for improved reliability and performance | In this study, a cost effective two-axis sun tracker has been developed. The ARM cortex-M3 core microprocessor successfully calculated the tilt angle of the solar panel in order to investigate the accurate sun elevation angle. | 2013 |
| 79 | GS12 | Design of Intelligent Home Application Control System Based on ARM and Zigbee | This paper describe the controlling of many devices which will be connected with the zigbee network. The main node contain the ARM with touch screen for controlling of the devices from the control center. | 2012 |
| 80 | GS13 | Bus monitoring System based on Zigbee And GPRS | This paper proposes a supervisory system which combines the advantages of zigbee & GPRS technology to improve the operating efficiency of bus system | 2012 |
| 81 | GS14 | Wireless Back Box Using MEMS Accelerometer And GPS Tracking for Accidental Monitoring of vehicle | This paper proposes a system which combines GPS & GSM with MEMS technology to monitor emergency condition of vehicle on road | 2012 |
| 82 | GS15 | Automatic Measurement and Reporting System of Water Quality Based on GSM | This paper proposes an intelligent system which measures the quality of water with aid of associated sensors and report it. | 2012 |
| 83 | GS16 | Aided Navigation Techniques for indoor and outdoor Unmanned Vehicles | This paper proposes a navigation technique which use LRF for indoor and GPS along with INS system for outdoor navigation which is used with UV. | 2012 |
| 84 | GS17 | Positioning and Tracking System study of All terrain Forest Fire patrolling and fighting vehicle | This paper proposes the design of a vehicle which will be useful for firefighting during fire accident. The vehicle will be controlled wirelessly | 2012 |
| 85 | GS18 | Realization of Intelligent Monitoring System Based on remote Sensor Technology | This paper describes the increase of security in monitoring of the important places using sensor technology | 2012 |

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|----|------|--|---|----------|
| 86 | GS19 | Smart Parking reservation System Using Short Message Services | In this paper a smart parking system is proposed in commercial car park areas. A parking reservation is done in such a way that users book their parking slots using SMS. | 2012 |
| 87 | GS20 | Database Design Of GPRS oriented remote meter reading system | The main objective of the paper is to reduce the manual power in meter reading system. The reading from the many nodes are uploaded in the web server using the GPRS technology with the meter information and user information | 2012 |
| 88 | GS21 | Design of Gas information collection and Information System Based on GPRS | The main objective of the paper is to monitor the gas parameters in gas industries. The sensors will be used for monitoring the parameters like pressure, flow, and leakage in pipeline. | 2011 |
| 89 | GS22 | Research on Alarm System of railway crossing based on GPS and GPRS | The main objective of the paper is to intimate the railways crossing section about the arrival of the train. GPS and sensor technology are used for monitoring the location and speed of the train. The information will be updated in internet via GPRS modem. | 2012 |
| 90 | GS23 | Heavy Vehicle Alert and intimating system for Traffic police using Capacitive sensor and GSM | Application Project | Non IEEE |
| 91 | GS24 | Vehicle Accident Intimation and Location finder using GSM and GPS | Application Project | Non IEEE |
| 92 | GS25 | Transformer oil and Temperature checking and intimation to the EB. | Application Project | Non IEEE |

6. CONSUMER ELECTRONICS

| | | | | |
|----|-----|--|---|------|
| 93 | CE1 | Intelligent technologies for self sustaining , RFID- Based, Rural E-health Systems | In this paper a RFID based rural health care system is established where in each patient is provided with a card using which the health care officers can download or upload details from database. | 2013 |
| 94 | CE2 | Prototype of an Underground Multi-storied Automated car parking System | In this paper a intelligent parking system is designed to avoid unnecessary delay times in searching a free slot for parking. | 2013 |

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|-----|------|--|---|----------|
| 95 | CE3 | Intelligent parking System for car parking Guidance and damage Notification | In this paper a parking assist system using ultrasonic sensor is designed along with vibration sensor to identify damage of car and embedded inside a car. | 2013 |
| 96 | CE4 | An Interactive RFID based Bracelet for Airport luggage tracking System | In this system a luggage tracking system is designed in which two way luggage verification is established to avoid unwanted luggage misplacements. | 2013 |
| 97 | CE5 | Hybrid RFID System Based pedestrian Localization : A Case Study | In this paper a system is proposed to identify the locomotive patterns using RFID of people inside a building in order that it is useful for avoiding deep crowds at places and to track activities of the people | 2013 |
| 98 | CE6 | MEMS Accelerometer Based Non specific User Hand Gesture recognition | This paper proposes a system in which gesture recognition using MEMS tri axial sensor which can be applied for further applications. | 2013 |
| 99 | CE7 | Optical Device indicating A safe Free Path to blind people | This paper is an intelligent system for blind people using high intensity light source and a vibrator which aids to find free path. | 2013 |
| 100 | CE8 | Sensor network Based Oil-Well health monitoring And intelligent Control | This paper a system is proposed to monitor the oil well parameters & the parameters used such as speed, current, voltage. | 2012 |
| 101 | CE9 | Target Detection and Classification using Seismic and PIR Sensors | This paper proposes a system which is employed in borders to monitor the movement using Seismic and PIR sensor Classifying the trespassing as human or vehicle or animal. | 2012 |
| 102 | CE10 | RFID and ZIGBEE based Manufacturing and Monitoring System | This paper is a good approach to improve monitoring efficiency so as to improve management efficiency in enterprise. | 2011 |
| 103 | CE11 | Real Time Atomization of Agriculture Environment For social Modernization of Indian Agriculture | Application Project | Non IEEE |
| 104 | CE12 | A Wireless Sensor node Soc With a Profiled Power Management Unit For IR Controllable Digital consumer Devices. | Application Project | Non IEEE |
| 105 | CE13 | Real time Clock Based Automatic College Bell ringing System Along with Temperature Display | Application Project | Non IEEE |

7. WEB-BASED

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|-----|------|--|---|----------|
| 107 | WB1 | A Wireless Sensor Network For Green House Climate Control | In this paper we implemented the WSN- based online microclimate monitoring and control System for green houses. | 2013 |
| 108 | WB2 | Design and Implementation of a Web-Service-Based public oriented personalized health Care System | Creating a public oriented health care system has triggered considerable research in both academic and industry in recent years. In this paper a health care system is designed using BAN and WSN | 2013 |
| 109 | WB3 | A Protocol Stack design and Implementation of Wireless Sensor Network For Emerging Application | This paper describes the design and development of protocol stack for wireless sensor network for deployment in remote area and emerging applications such as precision agriculture pollution monitoring. | 2013 |
| 110 | WB4 | Embedded Web Server Application Based Automation in Monitoring System | This paper proposes an embedded web server which uses Ethernet to monitor and control the sensors and home appliances | 2012 |
| 111 | WB5 | Intelligence Monitoring System Based On ARM and Information Fusion | This paper establishes a system which uses Ethernet along with ARM7 and directly uploads the measured zonal parameters into internet. | 2012 |
| 112 | WB6 | Intelligent Online Measurement and Management of energy meter through advanced Wireless Network | In this paper we design an intelligent electric meter based on advanced wireless data acquisition system in view of the complicated cables and accident potential in the process of data acquisition of electric meter. | 2011 |
| 113 | WB7 | Design of Online Interactive Data Acquisition and Control for Embedded real time Applications | Embedded web server is used to collect the data with clients in online. In this system data can be collected with the help of ARM Processor. | 2011 |
| 114 | WB8 | GSM based Instantaneous Vehicle Registration details Extraction System | Application Project | Non IEEE |
| 115 | WB9 | Embedded Based intelligent E-Voting Machine | Application Project | Non IEEE |
| 116 | WB10 | Voice to text Conversion design For dumb People interaction | Application Project | Non IEEE |

8. ELECTRICAL

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|-----|-----|---|---|------|
| 117 | EL1 | Remote-Control System Of High Efficiency and Intelligent Street | The proposed control system can optimize management and efficiency of street lighting system. It uses zigbee based wireless devices which | 2013 |
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| | | Light Using a Zigbee Network of devices and sensors | enables more efficient street lamp management system. It uses a sensor combination and guarantee the desired system parameters. | |
| 118 | EL2 | Intelligent Household LED Lighting System Considering Energy Efficiency and User Satisfaction | The most waste of energy is caused by the insufficient use of the consumer electronics. Particularly, a light accounts for a great part of the total energy consumption. The proposed LED lighting System reduces total power Consumption. | 2013 |
| 119 | EL3 | Design for middle Way of Intelligent Energy Saving System with Embedded System | This paper proposes an online controlled environmental system which automatically controls the environmental parameters according to the set value | 2013 |
| 120 | EL4 | Supervisory Predictive Control of Standalone Wind/solar Energy Generation Systems | In this paper, we design the supervisory control system via model predictive control which computes the power references for the wind and solar sub systems | 2013 |
| 121 | EL5 | Real time control of DC Motor Drive using Speech Recognition | This paper introduces a new approach to control and drive the dc motor, using speech recognition. | 2012 |
| 122 | EL6 | 360 degree Sun tracking With Automated Cleaning System for solar PV Modules | A novel mechanism of sun tracking with automatic cleaning of PV modules is presented and cleaning mechanism of the PV modules consists of sliding brushes, which slides over module and cleans it twice a day, where in PV panel makes a rotation of 360 degree in a day | 2012 |
| 123 | EL6 | Voice operated Induction motor Speed Control through RF Communication | Application Based | Non IEEE |
| 124 | EL7 | Induction Motor Control Using Touch Screen | Application Based | Non IEEE |
| 124 | EL8 | LDR Based automatic lamp illumination controller with high power intensity LED Lighting | Application Based | Non IEEE |
| 125 | EL9 | A Intelligent Remote Control system for Home Automation and Reduce energy Consumption | Application Based | Non IEEE |
| 126 | EL10 | Transformer industrial parameters Fault Identification and intimate to EB section | Application Based | Non IEEE |

BIO-MEDICAL

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| 127 | BM1 | A Zigbee-Based wearable Physiological Parameters Monitoring Systems | This system proposes a method to monitor the patient abnormal parameters by designing wearable sensors for checking the condition of a patient. | 2012 |
| 128 | BM2 | Self healthcare management System based on RFID Technology | In this system the biomedical parameters like weight, temperature and other data's are monitored and stored in the chip i.e. RFID tag. This tag is used for future details extraction of a patient. | 2012 |
| 129 | BM3 | Design , Development and Testing of a Wireless Sensor Network for medical Applications | In this paper the patient parameters are obtained and transmitted to receiver section with PC and also send as message to the Well- Wishers through GSM modem. | 2012 |
| 130 | BM4 | A Zigbee-Based Tele Cardiology System for Remote Healthcare Service Delivery | In this paper, this system provides doctors with the ability to monitor ECG level of patients over the internet with the help of Zigbee Protocol. | 2011 |
| 131 | BM5 | Sensors-Based Wearable Mini Module for Respiratory Rate Monitoring | Application Project | Non IEEE |
| 132 | BM6 | A Single Supply Standard 8051 Microcontroller based Medical K-grade Isolation ECG module with Graphics LCD | Application Project | Non IEEE |
| 133 | BM7 | Wireless Sensor Networks for Monitoring Physiological signals Of Multiple Patients | Application Project | Non IEEE |
| 134 | BM8 | Secure Remote Patient Monitoring System | Application Project | Non IEEE |

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 |
| 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 |

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| 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 |
| 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 |

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| 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 Preamplified 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 |
| 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 |

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| 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 | |
| 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 | |

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| 65 | Enhancement of Textural Differences Based on Morphological Component Analysis | |
| 66 | Learning Compact Feature Descriptor and Adaptive Matching Framework for Face ATSIPO01 - 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 |
| 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 |

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| 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 |
| 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 |

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| 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 |
| 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 |

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| 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 |
| 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 |

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| 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 |
| 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 | |

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| 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 | |
| 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 | |

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| 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 | |
| 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 | |

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| 158 | Particle Swarm Optimization-Based Clustering by Preventing Residual Nodes in Wireless Sensor Networks | |
| 159 | Improving Dermoscopy Image Classification Using Color Constancy | |