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Embedded System Projects

I. EMBEDDED based ENVIRONMENTAL MOBILITY

- 1. Waste Water Management for Smart Cities. (IEEE2018)
- 2. The Need of Multidisciplinary Approaches and Engineering Tools for the Development and Implementation of the Smart City Paradigm. (IEEE2018)
- 3. Animal Detection System in Farm Areas. (IEEE2018)
- 4. Advanced IOT Based Combined Remote Health Monitoring, Home Automation and Alarm System. (IEEE2018)
- 5. A Movement Decomposition and Machine Learning Based Fall Detection System Using Wrist Wearable Device. (IEEE2018)
- 6. Pollution Control using Internet of Things (IoT). (IEEE2018)

II. EMBEDDED based SALUTARY MANAGEMENT

- 1. A Wireless Continuous Patient Monitoring System for Dengue; Wi-Mon (IEEE2018)
- 2. A Low Cost Intelligent Smart System for Real Time Infant Monitoring and Cry Detection. (IEEE2018)
- 3. Continuous Health Surveillance System for Cattle. (IEEE2018)
- 4. Smart Pilgrim: A Mobile-Sensor-Cloud based System to Safeguard Pilgrims through Smart Environment. (IEEE2018)







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- 5. A Knowledge-Based Approach to Automatic Detection of Equipment Alarm Sounds in a Neonatal Intensive Care Unit Environment. (IEEE2018)
- 6. Health Monitoring and Tracking System for Soldiers Using Internet of Things (IoT).

 (IEEE2018)
- 7. Interoperable End-to-End Remote Patient Monitoring Platform based on IEEE 11073 PHD and ZigBee Health Care Profile. (IEEE2018)
- 8. Toward Better Management for Asthma. (IEEE2018)
- 9. Wearable Medical Sensor Based System Design: A Survey. (IEEE2018)
- 10. Smart Phone-Based Peak Expiratory Flow Meter. (IEEE2018)

III. EMBEDDED based DIGITAL TWIN

- 1. An IoT Approach for an AAL Wi-Fi-Based Monitoring System. (IEEE2018)
- 2. A Conceptual Framework for Supporting UAV based Cyber Physical Weather Monitoring Activities. (IEEE2018)
- 3. Internet of Things for Smart Railway: Feasibility and Applications. (IEEE2018)
- 4. IoT Based Smart School Bus Monitoring and Notification System. (IEEE2018)
- 5. RFID based Women Safety System with Automatic Street Light Control System.
 (IEEE2018)
- 6. IoT-Based Sensing and Communications Infrastructure for the Fresh Food Supply Chain.
 (IEEE2018)







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- 7. Mobile Security Monitor: A Wearable Computing Platform to Detect and Notify Falls.

 (IEEE2018)
- 8. Smart Parking Guidance Monitoring and Reservation: A Review. (IEEE2018)
- 9. IOT Based Controlling of Hybrid Energy System using ESP8266. (IEEE2018)
- 10. A Review on Different Techniques of Fire Detection for Emergency Management. (IEEE2018)
- 11. Wearable Wireless Sensor System with RF Remote Activation for Gas Monitoring
 Applications. (IEEE2018)

IV.EMBEDDED based SELF GOVERNING VEHICLE

- 1. An Uphill Safety Controller with Deep Learning based Ramp Detection for Intelligent Wheelchairs. (IEEE2018)
- 2. Sensor Motes for the Exploration and Monitoring of Operational Pipelines. (IEEE2018)
- 3. A Distributed Control Framework of Multiple Unmanned Aerial Vehicles for Dynamic Wildfire Tracking.(IEEE2018)
- 4. Virtue: Video Surveillance for Rail-Road Traffic Safety at Unmanned Level Crossings. (IEEE2018)
- 5. Battlefield Assistive Robot. (IEEE2018)
- 6. Multiple Distance Sensors Based Smart Stick for Visually Impaired People. (IEEE2018)
- 7. Mine Detection for Defence Using GSM. (IEEE2018)
- 8. Voice Recognition Controlled Wheel Chair. (IEEE2018)







V. EMBEDDED based HAPTIC COMPUTING

- 1. An IoT cloud system for traffic monitoring and vehicular accidents prevention based on mobile sensor data processing. (IEEE2018)
- 2. Smart IoT based system for vehicle noise and pollution monitoring. (IEEE2018)
- 3. Prototype of fire symptom detection system. (IEEE2018)
- 4. A probabilistic approach for forecasting the allowable current of oil-immersed transformers. (IEEE2018)
- A data parasitizing scheme for effective health monitoring in wireless body area networks. (IEEE2018)
- 6. Online obstructive sleep apnea detection on medical wearable sensors. (IEEE2018)
- 7. Bridge monitoring and alert generation system using IoT. (IEEE2018)
- 8. Design and development of an IoT based wearable device for the safety and security of women and girl children. (IEEE2018)
- 9. Intelligent medicine box for medication management using IoT.(IEEE2018)
- 10. Internet of things in smart ambulance and emergency medicine. (IEEE2018)

VI.EMBEDDED based ENERGY SALVAGE MANAGEMENT

- 1. LPG Level Monitoring, Booking and Gas Leakage Detector. (IEEE2018)
- 2. Smart Meter Privacy: Exploiting the Potential of Household Energy Storage Units.(IEEE2018)







VII. EMBEDDED based RACKET CONTROL AND PREVENTION

- 1. SEAT: Secure Energy-efficient Automated Public Transport Ticketing System. (IEEE2018)
- 2. SMS Based Banking Security System. (IEEE2018)

VIII. EMBEDDED based VOCATION DATA PREVENTION

- 1. Centralized Automation of Petrol Bunk Management and Safety using RFID and GSM Technology. (IEEE2018)
- 2. ATM Transaction without Debit Card. (IEEE2018)

IX.EMBEDDED based LIGHT AND RADIO WAVES

- 1. Smart Shopping Cart. (IEEE2018)
- 2. On Human to Database Interface Based on Visible Light Communication. (IEEE2018)
- 3. A Health Remote Monitoring Application based on Wireless Body Area Networks.

(IEEE2018)

- 4. A Methodology for Reliability of WSN Based on Software Defined Network in Adaptive Industrial Environment. (IEEE2018)
- 5. Secured and Green Data Processing and Transmission in a Human-Vehicle Interaction ADAS System. (IEEE2018)









X. EMBEDDED based SELF-PROPELLED DEVICES

- 1. Automated Vehicle Parking System and Unauthorized Parking Detector. (IEEE2018)
- 2. Wearable Device-Based System to Monitor a Driver's Stress, Fatigue, and Drowsiness.

(IEEE2018)

- 3. A Smart System for Garden Watering using Wireless Sensor Networks. (IEEE2018)
- 4. LPG Monitoring and Leakage Detection System. (IEEE2018)
- 5. SMS Based Industrial Disaster Intimation System. (IEEE2018)
- 6. A Review on Human-Centered IoT-Connected Smart Labels for the Industry 4.0 (IEEE2018)

XI.EMBEDDED based REAL WORLD ENVIRONMENT

- 1. EATS: Enhanced Automatic Tollgate System Powered by IoT and Big Data. (IEEE2018)
- 2. Technology-Assisted Decision Support System for Efficient Water Utilization: A Real-Time Testbed for Irrigation Using Wireless Sensor Networks. (IEEE2018)
- 3. WiFi Sensing Based Real-time Bus Tracking and Arrival Time Prediction in Urban Environments. (IEEE2018)
- 4. Real-Time Flood Water Level Monitoring System with SMS Notification. (IEEE2018)
- 5. Accident and Alcohol Detection in Bluetooth enabled Smart Helmets for Motorbikes.

 (IEEE2018)







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- 6. Protocol Implementation for Wireless Sensor Network for Anti-Poaching of Trees.

 (IEEE2018)
- 7. Design and Implementation of Real Time Transformer Health Monitoring System Using GSM Technology. (IEEE2018)
- 8. SmartBath: Water Temperature Control System. (IEEE2018)
- 9. Monitoring Physiological variables Of Mining Workers at High Altitude. (IEEE2018)
- 10. Towards Fourth Industrial Revolution Impact: Smart Product Based on RFID

 Technology.(IEEE2018)
- 11. Automated Medical Waste Segregation Machine Using Arduino Controller. (IEEE2018)
- 12. Multi-sensor Integrated System for Wireless Monitoring of Greenhouse Environment.(IEEE2018)

XII. EMBEDDED based 2D PROCESSING

- 1. Super-pixel Based Single Nighttime Image Haze Removal. (IEEE2018)
- 2. Automatic Detection of Tomato Diseases and Pests Based on Leaf Image. (IEEE2018)
- 3. Fully Convolutional Networks with Sequential Information for Robust Crop and Weed Detection in Precision Farming. (IEEE2018)
- 4. An Automatic Fire Detection and Warning System under Home Video Surveillance. (IEEE2018).
- 5. Fusion of structural and textural features for melanoma recognition. (IEEE2018)







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- 6. Deep multiple instance learning for automatic detection of diabetic retinopathy in retinal images. (IEEE2018)
- 7. Colour Image Segmentation for Malaria parasites Detection using Cascading Method. (IEEE2018)
- 8. Integrated Approach for Bone Tumor Detection from MRI Scan Imagery. (IEEE2018)
- 9. A Face Recognition Attendance System with GSM Notification. (IEEE2018)
- 10. Gesture Recognition and fingertip detection for Human Computer Interaction. (IEEE2018)

XIII. EMBEDDED based MAN MACHINE COMMUNICATION

- 1. Verifiable Classroom Voting in Practice.(IEEE2018)
- 2. A proposed framework for biometric electronic voting system.(IEEE2018)
- 3. Design, Characterization and Implementation of a Two-DOF Fabric-based Soft Robotic Arm.(IEEE2018)

XIV. EMBEDDED based MINI COMPUTER (RASPBERRYPI)

- 1. Improving Smart Home Security; Integrating Logical Sensing into Smart Home. (IEEE2018)
- 2. A Driver State Detection System—Combining a Capacitive Hand Detection Sensor with Physiological Sensors. (IEEE2018)
- 3. A Temperature Compensated Smart Nitrate-Sensor for Agricultural Industry. (IEEE2018)

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- 4. Bi-Directional Passing People Counting System based on IR-UWB Radar Sensors. (IEEE2018)
- 5. Automated Blood Donating And Managing System Using Raspberry Pi B+. (IEEE2018)
- 6. A Raspberry Pi Controlled Cloud Based Air and Sound Pollution Monitoring System with Temperature and Humidity Sensing. (IEEE2018)

XV. EMBEDDED based EDIFICE MANAGEMENT

- Internet of Things Enhanced User Experience for Smart Water and Energy Management. (IEEE2018)
- 2. Prototype Development of a Wireless Embedded System for Bridge Monitoring.(IEEE2018)
- 3. Smart Innovation Applications for a Green House Using Sustainable and Renewable Energy in the UAE.(IEEE2018)
- 4. Road safety in the age of mobile phones: IoT and Milgram. (IEEE2018)
- Intelligent Condition Monitoring System for Distribution Transformer and Health Status
 Diagnosis. (IEEE2018)
- 6. Internet of Things for Flame Monitoring Power Station Boilers. (IEEE2018)
- 7. Monitoring Earthquake through MEMS Sensors (MEMS project) in the town of Acireale (Italy). (IEEE2018)
- 8. A Complete Internet of Things (IoT) Platform for Structural Health Monitoring (SHM).(IEEE2018)



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- Lifetime Optimization of Wireless Sensor Networks for Gas Monitoring in Underground Coal Mining. (IEEE2018)
- 2. Design and Implementation of an Agricultural Monitoring System for Smart Farming. (IEEE2018)
- 3. IoT based Smart Home Automation System using Sensor Node. (IEEE2018)
- 4. IoT Solutions for Crop Protection against Wild Animal Attacks. (IEEE2018)
- 5. Physical sensors for precision aquaculture: A Review. (IEEE2018)

XVII. EMBEDDED based WEB EMPIRE

- 1. Redundant robot localization system based in wireless sensor network. (IEEE2018)
- 2. Automatic Dangerous Driving Intensity Analysis for Advanced Driver Assistance Systems from Multimodal Driving Signals. (IEEE2018)
- 3. Semi-supervised Deep Reinforcement Learning in Support of IoT and Smart City Services. (IEEE2018)
- 4. Energy-efficient border intrusion detection using wireless sensors network. (IEEE2018)
- 5. Quantifying the Effects of Increasing Mechanical Stress on Knee Acoustical Emissions Using
 Unsupervised graph mining. (IEEE2018)







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XVIII. EMBEDDED based HOMINOID

- Development of Data Acquisition Robot for Toxic Environmental Monitoring Using WSN. (IEEE2018)
- 2. Development Of WSN Based Water Level Monitoring And Control System Using Android. (IEEE2018)
- 3. Smart Home Automation. (IEEE2018)
- 4. Speech Recognition Based Voice Command Notice Board. (IEEE2018)
- 5. Greenhouse Environment Controlling With Monitoring On Android Application (IEEE2018)
- 6. Weather Report Information System. (IEEE2018)