

Embedded Systems Projects

I. EMBEDDED based HANDHELD MOBILE COMPUTERS

1. A Smart Method based fast prototyping of Wireless Reflectance Photoplethysmograph. **(IEEE2016)**
2. Wearable Noncontact Armband for ECG monitoring System using radio signal. **(IEEE2015)**
3. An Integrated Cloud-Based Smart Home Management System with Community Hierarchy. **(IEEE2016)**
4. A vibrate Measurement and statistics Management System Based on Arduino Platform and Android Device. **(IEEE2016)**
5. A Smart phone intelligent system based Peak expiratory flow meter. **(IEEE2016)**
6. IOT + Miniature Data: changing In-Store Shopping Analytics & Services. **(IEEE2015)**
7. An application of communication system between visitor and collection in museum hall by IBEACON Protocol. **(IEEE2016)**

II. EMBEDDED based BIO-MEDICAL APPLICATIONS

1. Magnetic-based stress levels in knee implants using Non-invasive measurement. **(IEEE2016)**
2. Cybernetic Blood-movement Monitoring system: Optimization of Human Bioactivity underneath Exposure to Magnetic Fields (Portable Kidney mechanism with blood leakage detector). **(IEEE2016)**
3. Values of using a voice and EMG-determined actuated glove to support occupational treatment for stroke survivors. **(IEEE2016)**
4. A quite implantable, Wireless enabled, continuous interstitial glucose monitor. **(IEEE2016)**
5. Simple ambulatory walk checking system using IMU for several regular-life gait actions. **(IEEE2016)**

IEEE 2016

6. A Perception on the Usage of excessive -frequency Stimulation in Deep Brain stimulus for Parkinson's illness. **(IEEE2016)**
7. Prototypical for Personalization of m Healthiness Systems for Controlling Patients with long-lasting Diseases. (Home Healthcare Self-Monitoring System for Chronic Diseases). **(IEEE2016)**
8. Canny Belt: A wearable device for handling intestinal fatness. **(IEEE2016)**
9. An exposed radio-communication-based platform for essential signs monitoring. **(IEEE2016)**

III. EMBEDDED based CYBER-PHYSICAL SYSTEM

1. Wearable Pulse Rate Sensor device for Wireless Canine strength Monitoring. **(IEEE2016)**
2. Testing and Control of Multi-Phase Inductively Coupled Resonant Converter for Wireless Power Automobile Charger Applications. **(IEEE2016)**
3. A Double-Channel, Interfering-free, Germs-Based Biosensor for Very-Sensitive H2O Value Monitoring. **(IEEE2016)**
4. NFC4Sure: Wireless Ticketing System. **(IEEE2016)**
5. DASITS: Driver Support System in intellectual Transportation System (School Children Transportation safety). **(IEEE2016)**
6. Improvement and Combination of HEMS with progressive Smart Metering Infrastructure. **(IEEE2016)**
7. An Normalize Impedance Matching System for Vehicular capability Line Transmission. **(IEEE2016)**
8. Intonation -Activity Home Care System. **(IEEE2016)**

IV. EMBEDDED based ROBOTIC VEHICLE

1. Automatic regulated Head Direction Controller for Automated-Wheelchair Using MEMS Sensors and Embedded Technologies. **(IEEE2016)**
2. Lead-support Development and Tracking Control of Wireless Robots beside Straight Paths. **(IEEE2016)**

IEEE 2016

3. Independent Data Gathering with Limited Time for Submerged Vehicles. **(IEEE2016)**
4. Electroencephalogram based intelligence Controlled Wheelchair for Physically Challenged People. **(IEEE2016)**
5. Innovative Mechatronics Course based on Moved Mobile Robots and Real-Time Embedded Control New Setups. **(IEEE2016)**
6. Loading of Hanging Trolleys on Overhead Conveyor with Industrialized Robots. **(IEEE2016)**
7. Strong Route following Error-Based typical Prognostic Control for Unmanned Earth Vehicles. **(IEEE2016)**

V. EMBEDDED based UBIQUITOUS COMPUTING

1. Plan and execution of Interoperable IoT Healthcare Method Based on International Standards. **(IEEE2016)**
2. Microwave identifying of feature Characteristics of farming and nutrition Products. **(IEEE2016)**
3. Milk products monitoring device with arm processor for initial detection of microbial action. **(IEEE2016)**
4. Child Monitoring System based Active RFID and ESP8266 (Intelligent Baby Monitoring System). **(IEEE2016)**
5. Gesticulation Motion sensor data modification using many sensors and several measurements. **(IEEE2016)**
6. Analysis and Exhibiting of Selected Energy Consumption Factors for Embedded ECG System (Fault detector unit). **(IEEE2016)**
7. Railway Track Path fault analysis Using Recurrent Sensual Networks (condition monitoring for railway industry). **(IEEE2016)**
8. A Just-in-time Studying access for trashTherapy Process Monitoring with Deterministic Troubles. **(IEEE2016)**

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9. Blind User Wearable Audio aid for interior Navigation Based on Visual Indicators and Ultrasonic Obstacle Finding. **(IEEE2016)**

VI. EMBEDDED based ENERGY-SENSITIVE PRODUCTION CONTROL

1. MAS-Based Power decision – making plans for a cross Energy making System (Designing of an optimized building integrated hybrid energy generation system). **(IEEE2016)**
2. Gust turbine order monitoring and fault diagnosis. **(IEEE2016)**
3. Experiments and viewpoints in Tandem Thermoelectric–Photovoltaic Solar Power Conversion. **(IEEE2015)**
4. Evaluation of the Computational release of a Basic PV Model and MPPT approach. **(IEEE2016)**
5. Electrical capacitance with interlaced wire for Pyro-electric strength harvesting applications. **(IEEE2016)**

VII. EMBEDDED based RSSI

1. A Smart Arm for wind characteristics and indeterminate incident Detection for the Mining Organisation. **(IEEE2016)**
2. Construct radio-based Control System for Societies with Multiple Disabilities in Smart Homes. **(IEEE2016)**
3. Energy-Competent Rational Highway illumination System Using Traffic-Flow Control. **(IEEE2016)**
4. Identifying Operating Actions of Work automobiles using Zigbee. **(IEEE2016)**
5. Non-parametric distance demonstrating for object tracking in wireless sensor networks. **(IEEE2015)**
6. Extract a Secret Key in Vehicular Setups using wireless system. **(IEEE2016)**

IEEE 2016

VIII. EMBEDDED based SECURITY AND ACCESS CONTROL

1. IoT: Mobility-Driven Tests, Strategies and Implementations. **(IEEE2016)**
2. Constructing unit of the IOT. (IEEE2016)
3. Little-cost Knowledgeable Static sign Recognition System. (IEEE2016)

IX. EMBEDDED based BANKING

1. Short period re-identity of Automatic Teller Machine (ATM) users via face and body Present features. **(IEEE2016)**
2. Advanced Voting Machine – An Automatic Ideal for Secured fingerprint Based Voting System. **(IEEE2016)**

X. EMBEDDED based E-COM

1. BSN-Care: Protected IoT -based recent Healthcare technique Using Physique Sensor Network. **(IEEE2016)**
2. Clever Network Operation to Overcome Electric Power System strain Conditions through Demand Response in Pakistan. **(IEEE2016)**
3. A Smart Wearable System for unexpected Child Death disease Monitoring. **(IEEE2016)**
4. Self-governing Channel Switching: Towards effectual Spectrum Sharing for modern Wireless Sensor Networks. **(IEEE2016)**
5. CE-BEMS: A Cloud-enabled structure dynamism management system. **(IEEE2016)**
6. An Internet-of-Things Allowedfixed Navigation technique for metropolitan Bus Riders. **(IEEE2016)**
7. A Tri-Ray Dog-Bone Resonant Sensor with High-Q in Liquified for Disposable Test-Strip finding of Analyze Droplet (Saline droplet measurement system). **(IEEE2016)**

IEEE 2016

XI. EMBEDDED based WIFI & LIGHT FIDELITY

1. Demonstration Abstract: enquiries Platform for Visible Light Communication and detecting Systems). **(IEEE2016)**
2. Road traffic crowd managing using VANET (VLC based VANET). **(IEEE 2016)**
3. On the Precision of WI-FI Localization using machine and Human Collected signs (spy robot based WI-FI). **(IEEE 2016)**

XII. EMBEDDED based TRANSPORTATION SYSTEM

1. ReCon-AVe: wireless controlled automobile For Data Mining and Analysis. **(IEEE 2015)**
2. E-Ticketing System of Self-adaptable cost for Transportation Systems. **(IEEE 2016)**
3. An Inspection of Visualization-Based Traffic Monitoring of Road Junction. **(IEEE 2016)**
4. Intelligent vehicle Protection system for Defending against Concerted Attacks by malware. **(IEEE 2016)**
5. Distratto: fabric Sensors Using Impaired Driving Detection. **(IEEE 2016)**
6. Tollgate Traffic jamming supervision Using VANET (congestion control, ambulance clearance, and stolen vehicle detection). **(IEEE 2016)**

XIII. EMBEDDED based COMPUTER VISION AND IMAGE PROCESSING

1. Improvement of a Portable near IR Camera for initial Detection of Diabetic Ulcers (Remote injury Monitoring of Continual Ulcers). **(IEEE2016)**
2. A Narrative process and instrument for detection of tumours and tissue abnormalities. **(IEEE2016)**
3. Pan-Cancer Testing for Studying Disease Stage using Protein Appearance Data. **(IEEE2015)**
4. Complete and sensible Vision System for Self-Driving Vehicle Lane-Level Localization. **(IEEE2016)**

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- 5.3D-exterior Integrated Touch-Sensor System for Automotive Human machine interface **(IEEE2016)**
6. Daylight past Vehicle Brake luminosity Detection Using Monocular Vision. **(IEEE2016)**
7. Super computer Vision Based Fire indication System. **(IEEE2016)**

XIV.EMBEDDED based HUMAN-MACHINE INTERFACE

1. Optical-Attention Based surrounding modelling for detecting rarely Moving Objects. **(IEEE2016)**
2. A Quick process of Fog and Haze deletion. **(IEEE2016)**
3. Statistical Hypothesis Detection for irregular Event Detector in busy Scenes. **(IEEE2016)**
4. Ear Landmark Localization, Segmentation & Pose categorization in variety Images. **(IEEE2016)**
5. Study of Medico Stick. **(IEEE2016)**

XV. EMBEDDED based ARCHITECTING AND CONSTRUCTION

1. Investigate for structure Process Monitoring System of major Reflector System for FAST. **(IEEE2016)**
2. Automatic Crack Detection sensor using in Concrete Bridges. **(IEEE2016)**
3. Detection of interior rust of Steel Structure Using Magnetic Sensor and Magnetic Spectroscopy Analysis. **(IEEE2016)**
4. An Inspection on Quickly Deployable Solutions for Post-failure Networks. **(IEEE2016)**
5. Higher Communication Systems for Smart City Process based NoC. **(IEEE2016)**
6. Soil Moisture Content Evaluation Using UWB. **(IEEE2016)**
7. Image Processing Based Crack Detection and Measurements. **(IEEE2016)**

IEEE 2016

XVI. EMBEDDED based LAB-VIEW

1. Strong Route Tracking Error-Based Model analytical Control for Unmanned land Vehicles. **(IEEE2016)**
2. Aim and Exaction of chess roles guess possibility in military chess computer game. **(IEEE2016)**
3. Implementation of Policy Body Cams. **(IEEE2016)**

XVII. EMBEDDED based RASPBERRY PI

1. The Sensorial controlled IoT Platform. **(IEEE2016)**
2. Quick Find: Rapid and contact-free object identification via a depth sensor. **(IEEE2016)**
3. Turning the IoT into a Wireless controlled laboratory. **(IEEE2016)**