



Embedded System Projects

Real Time Live IEEE Projects

I. EMBEDDED based REALWORLD MOBILITY

1. Bluetooth GPS Application Based On Latitude And Longitude For Child Tracking Model. (IEEE 2017).
2. Communication approach through handheld devices for Disabled patient based on morse code. (IEEE 2017).
3. A Wireless Health Monitoring System Using Mobile Phone Accessories(IEEE 2017).
4. Monitoring physiological variables of mining workers at high altitude. (IEEE 2017).
5. Wearable Medical Sensor Based System Design A Survey. (IEEE 2017).

II. Embedded based BIOLOGICAL SYSTEM ANALYSIS

1. An Empirical Study on Engineering a Real World Smart Ward Using Pervasive Technologies. (IEEE 2017).
2. PARHELIA Particle Filter Based Heart Rate Estimation from Photoplethysmographic Signals during Physical Exercise (IEEE 2017).
3. Novel Approach to Non-Invasive Blood Glucose Monitoring based on Transmittance and Refraction of Visible Laser Light (IEEE 2017).
4. Feasibility Study for Unconstrained Respiration Monitoring based on Multi-Way Approach Using an Acceleration and Force Sensing Module. (IEEE 2017).
5. Development and Characterization of Carbonic Anhydrase Based CO₂ Biosensor for Primary Diagnosis of Respiratory Health (IEEE 2017).
6. Wearable Glove-Type Driver Stress Detection Using a Motion Sensor. (IEEE 2017).
7. Sleep Sense: A Noncontact and Cost-Effective Sleep Monitoring System. (IEEE 2017).
8. Private and Secured Medical Data Transmission and Analysis for Wireless Sensing Healthcare System (IEEE 2017).
9. Federated Internet of Things and Cloud Computing Pervasive Patient Health Monitoring System . (IEEE 2017).



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10. Investigation of an Indoor Air Quality Sensor for Asthma Management in Children . (IEEE 2017).

III. Embedded based SMART WORLD

1.Fuzzy Group Based Intersection Control via Vehicular Networks for Smart Transportations. (IEEE 2017).

2. Towards fourth industrial revolution impact smart product based on RFID technology. (IEEE 2017).

IV. EMBEDDED based AUTONOMOUS VEHICLE

1.A Comprehensive Review of Smart Wheelchairs: Past, Present, and Future(IEEE 2017).

2.NARMAX Self Tuning Controller for Line-of-Sight-Based Waypoint Tracking for an Autonomous Underwater Vehicle (IEEE 2017).

3. Robot assistant in management of diabetes in children based on the internet of things (IEEE 2017).

V. EMBEDDED based AMBIENT INTELLIGENCE

1. A Survey of Smart Parking Solutions (IEEE 2017).

2. SimpliMote A Wireless Sensor Network Monitoring Platform for Oil and Gas Pipelines (IEEE 2017).

3. Self_Powered ZigBee Wireless Sensor Nodes for Railway Condition Monitoring. (IEEE 2017).

VI. EMBEDDED based NATURAL RESOURCE MANAGEMENT

1. A Wireless Sensor Monitoring Node Based on Automatic Tracking Solar-powered Panel for Paddy Field Environment (IEEE 2017).



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2. An Autonomous Wireless Body Area Network Implementation towards IoT Connected Healthcare Applications (IEEE 2017).
3. Multi-Agent System based Event-Triggered Hybrid Controls for High-Security Hybrid Energy Generation Systems (IEEE 2017).
4. Towards an Energy-Efficient Anomaly-Based Intrusion Detection Engine for Embedded System. (IEEE 2017).
5. Towards an Energy-Efficient Anomaly-Based Intrusion Detection Engine for Embedded Systems (IEEE 2017).
6. Global optimal energy management control strategies for connected four-wheel-drive Hybrid electric vehicles (IEEE 2017).

VII. EMBEDDED based ACCESS VERIFICATION AND CONTROL

1. Modeling and Offset-Free Model Predictive Control of a Hydraulic Mini Excavator. (IEEE 2017).
2. Safety-Level Aware Bin-Packing Heuristic for Automatic Assignment of Power Plants Control Functions (IEEE 2017).
3. State-of-the-Art Intelligent Flight Control Systems in Unmanned Aerial Vehicles. (IEEE 2017).
4. Planning and Control for Collision-Free Cooperative Aerial Transportation (IEEE 2017).
5. RISE-Based Adaptive Control of Hydraulic Systems With Asymptotic Tracking. (IEEE 2017).

VIII. EMBEDDED based FINANCIAL DATA SECURITY

1. VOT-EL: Three Tier Secured State-Of-The-Art EVM Design Using Pragmatic Fingerprint Detection Annexed With NFC Enabled Voter -ID Card Anooshmita. (IEEE 2017).
2. Design of a Solar Power Electronic Voting Machine (IEEE 2017).



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3.Preventing And Securing Data From Cyber Crime Using New Authentication Method Based On Block Cipher Scheme. (IEEE 2017).

IX. EMBEDDED based WIFI AND LIGHT FIEDILITY

1.A Superimposed Relaying Strategy and Power Allocation for Outdoor Visible Light Communications (IEEE 2017).

2. Reliable transmission of visible light communication data in lighting control networks.(IEEE 2017).

3. Light-weight and Robust Security-Aware D2D-assist Data Transmission Protocol for Mobile-Health Systems (IEEE 2017).

4. Performance Modeling for Multipath Mobile Data Offloading in Cellular/WiFi Networks(IEEE 2017).

X. EMBEDDED based AUTOMOTIVE

1. A Hybrid Approach for Efficient Privacy Preserving Authentication in VANET. (IEEE 2017).

2. Interoperable EV detection for dynamic wireless charging with existing hardware and free resonance. (IEEE 2017).

3. Power Rail Segmentation and Deployment(IEEE 2017).

4. When Smart Wearable Meet Intelligent Vehicles: Challenges and Future Directions. (IEEE 2017).

XI. EMBEDDED based VIRTUAL ENVIRONMENTS

1. Study of Text Segmentation and Recognition using Leap Motion Sensor (IEEE 2017).

2.supporting trembling hand typing using optical see-through mixed reality. (IEEE 2017).

3. Recent Trends in Driver Safety Monitoring Systems: State of the Art and



Challenges. (IEEE 2017).

XII. EMBEDDED based MACHINE LEARNING AND IMAGE PROCESSING

1. Hyper spectral face recognition via feature Extraction and CRC-based classifier. (IEEE 2017).
2. Facial-Expression Monitoring System for Improved Healthcare in Smart Cities.(IEEE 2017).
3. Reworking Multilabel Brain Tumor Segmentation. (IEEE 2017).
4. A Robust and Efficient Approach to License Plate Detection. (IEEE 2017).
5. Single image dehazing by latent region segmentation based transmission estimation and weighted L1-norm regularization. (IEEE 2017).
6. MIGS-GPU: Microarray Image Gridding and Segmentation on the GPU. (IEEE 2017).

XIII. EMBEDDED based MAN MACHINE COMMUNICATION

1. Brain Machine Interface and Visual Compressive Sensing based Teleoperation Control of an Exoskeleton Robot. (IEEE 2017).
2. Early Detection of Sudden Pedestrian Crossing for Safe Driving during Summer Nights.(IEEE 2017).
3. Higher Order Linear Dynamical Systems for Smoke Detection in Video Surveillance Applications. (IEEE 2017).
4. Hierarchical Approach for Rain or Snow Removing in A Single Color Image. (IEEE 2017).
5. Dual Deep Network for Visual Tracking. (IEEE 2017).
6. Towards Abnormal Trajectory and Event Detection in Video Surveillance. (IEEE 2017).
7. Towards Detection of Bus Driver Fatigue Based on Robust Visual Analysis of Eye State. (IEEE 2017).



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XIV. EMBEDDED based SINGLE BOARD COMPUTERS (RASPBerry PI)

1. Improving Smart Home Security; Integrating Logical Sensing into Smart Home. (IEEE 2017).
2. A Driver State Detection System “Combining a Capacitive Hand Detection Sensor With Physiological Sensors.(IEEE 2017).
3. A Temperature Compensated Smart Nitrate-Sensor for Agricultural Industry.(IEEE 2017).

XV. EMBEDDED based BUILDING MANAGEMENT

1. IoT Considerations, Requirements, and Architectures for Smart Buildings “ Energy Optimization and Next Generation Building Management Systems. (IEEE 2017).
2. A Generic Deep-Learning-Based Approach for Automated Surface Inspection. (IEEE 2017).
3. Automatic Detection of Wind Turbine Blade Surface Cracks Based on UAV-taken Images. (IEEE 2017).
4. Monitoring Corrosion Process of Reinforced Concrete Structure Using FBG Strain Sensor. (IEEE 2017).
5. An Entropy-Based Analysis of GPR Data for the Assessment of Railway Ballast Conditions.(IEEE 2017).
6. Automatic Detection of Marine Gas Seeps Using an Interferometric Side scan Sonar. (IEEE 2017).
7. Road Sense: Smartphone Application to Estimate Road Conditions using Accelerometer and Gyroscope. (IEEE 2017).

XVI. EMBEDDED based IOT (INTERNET OF THINGS)

1. IoT Driven Automated Object Detection Algorithm for Urban Surveillance Systems in Smart Cities. (IEEE 2017).
2. SPARK: Smart Power Assessment Rendering Kit.(IEEE 2017).



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3. Survey on Flooding Detection System using Internet of things. (IEEE 2017).
4. Patients' Adoption of WSN-Based Smart Home Healthcare Systems: An Integrated Model of Facilitators and Barriers. (IEEE 2017).
5. Structural Health Monitoring Framework Based on Internet of Things: A Survey. (IEEE 2017).
6. Challenges and Opportunities of Waste Management in IoT-enabled Smart Cities: A Survey . (IEEE 2017).
7. RFID-based Production Data Analysis in an IoT-enabled Smart Job-shop. (IEEE 2017).
8. IoT applications on Secure Smart Shopping System. (IEEE 2017).