

S3 Technologies

IEEE Dot Net | Java | Embedded | Image Processing | Android | Networking | VLSI | Application Projects

IEEE 2017-2018 EMBEDDED PROJECTS

Android
1. Smartphone Application to Evaluate the individual possibilities for the Application of Electric Vehicles
2. Face recognition System for Smartphone based on LBP
3. A Visual Chaotic System Simulation in Arduino Platform Controlled by Android App
4. Motion Analysis in Vocalized Surprise Expressions and Motion Generation in Android Robots
BIO-Medical
1. Coexistence of ZigBee-Based WBAN and WiFi for Health Telemonitoring Systems
2. Access Control Schemes for Implantable Medical Devices: A Survey
3. A Wireless Health Monitoring System Using Mobile Phone Accessories
4. Access Control Schemes for Implantable Medical Devices: A Survey
GSM
1. An Arduino-based subsystem for controlling UAVs through GSM
2. Anti-theft protection of vehicle by GSM & GPS with fingerprint verification
3. An Arduino-based subsystem for controlling UAVs through GSM
4. Design and implementation of real time transformer health monitoring system using GSM technology
5. Design and implementation of real time transformer health monitoring system using GSM technology
RFID
1. IoT Localization for Bistatic Passive UHF RFID Systems with 3D Radiation Pattern

43, North Masi Street, Simmakal (Opp. Of Krishnan Kovil) , Madurai . Contact: 0452-4373398,
9500580005, 9629868306

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2. You Can Clone but You Can't Hide: A Survey of Clone Prevention and Detection for RFID
3. Defense against Impersonating Attackers: An Efficient RFID Mutual Authentication Protocol Based on Standard
SECURITY
1. Embedded Home Surveillance System
2. Home automation and personalization through individual location determination
3. Optical self-excitation and detection for inertial MEMS Sensors
4. Monolithic Multi-Sensor Design With Resonator-Based MEMS Structures
5. Ultrasonic Radar System (URAS): Arduino and Virtual Reality for a light-free mapping of indoor environments
6. Comparison of electric vehicles with single drive and four wheel drive system concerning regenerative braking
7. Towards Real-Time Object Detection on Embedded Systems
8. Embedded Home Surveillance System
9. Modeling and Simulation of a Moving Robotic Arm Mounted on Wheelchair
10. Face recognition System for Smartphone based on LBP
11. On-line impedance monitoring of transformer based on inductive coupling approach
AUTOMATION
1. Environmental Monitoring in Grain Granary Based on Embedded System
2. An SDR Based Channel Sounding Technique for Embedded Systems
3. Towards Real-Time Object Detection on Embedded Systems

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4. Embedded Control System for Smart Walking Assistance Device
5. Comparison of electric vehicles with single drive and four wheel drive system concerning regenerative braking
6. Secure and Efficient Protocol for Route Optimization in PMIPv6-based Smart Home IoT Networks
7. Home automation and personalization through individual location determination
8. Embedded System for Prosthetic Control Using Implanted Neuromuscular Interfaces Accessed Via an Osseointegrated Implant
9. Direct and indirect sensing two-axis solar tracking system
10. Access Control Schemes for Implantable Medical Devices: A Survey
11. Smartphone Application to Evaluate the individual possibilities for the Application of Electric Vehicles
12. Quality of Service Management for Home Networks Using Online Service Response Prediction
13. Embedded Control System for Smart Walking Assistance Device
14. Direct and indirect sensing two-axis solar tracking system
15. sufficient number of optimal tilt angle adjustment to maximize residential solar panels yield
16. Hazards in the installation and maintenance of solar panels
Robot
1. Efficient Visual Obstacle Avoidance for Robotic Mower
2. Modeling and Simulation of a Moving Robotic Arm Mounted on Wheelchair
3. Robotic Assistant for Mobility-Impaired Patients
4. Low-cost robotic assessment of visuo-motor deficits in Alzheimer's disease

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5. Closed-Chain Manipulation of Large Objects by Multi-Arm Robotic Systems
6. Bioinspired Ciliary Force Sensor for Robotic Platforms
7. Efficient Visual Obstacle Avoidance for Robotic Mower
8. Managing robot kinematics based on Arduino controllers using a Unity system
9. Robotic Assistant for Mobility-Impaired Patients
10. Low-cost robotic assessment of visuo-motor deficits in Alzheimer's disease
11. Closed-Chain Manipulation of Large Objects by Multi-Arm Robotic Systems
COMMUNICATION
1. A smart meter design and implementation using ZigBee based Wireless Sensor Network in Smart Grid
2. Evolving Machine Intelligence Toward Tomorrow's Intelligent Network Traffic Control Systems
3. Signal Processing in Cyber-Physical MEMS Sensors: Inertial Measurement and Navigation Systems
4. Based on MEMS sensors man-machine interface for mechatronic objects control
5. Evaluating Secrecy Outage of Physical Layer Security in Large-Scale MIMO Wireless Communications for Cyber-Physical Systems
6. Congestion Detection and Propagation in Urban Areas Using Histogram Models
7. Industrial Internet: A Survey on the Enabling Technologies, Applications, and Challenges
8. Current Challenges for Visible Light Communications Usage in Vehicle Applications: A Survey
9. An SDR Based Channel Sounding Technique for Embedded Systems
10. Evolving Machine Intelligence Toward Tomorrow's Intelligent Network Traffic Control Systems

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16. Based on MEMS sensors man-machine interface for mechatronic objects control
IOT
1. Secure and Efficient Protocol for Route Optimization in PMIPv6-based Smart Home IoT Networks
2. Home automation and personalization through individual location determination
3. Agricultural crop monitoring using IOT
4. Wearable sensors for analyzing personal exposure to air pollution
5. Electromagnetic pollution measurement in the system rooms of a university
6. Security and Privacy Preservation Scheme of Face Identification and Resolution Framework Using Fog Computing in Internet of Things
7. Indoor localization framework with WiFi fingerprinting
8. Accurate indoor localization and tracking using mobile phone inertial sensors, WiFi and iBeacon
9. On-line impedance monitoring of transformer based on inductive coupling approach
10. Secure and Efficient Protocol for Route Optimization in PMIPv6-based Smart Home IoT Networks

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11. Machine-to-Machine Communications in Ultra-Dense Networks ♦ A Survey
12. A Survey of Network Lifetime Maximization Techniques in Wireless Sensor Networks
13. A Survey on Network Methodologies for Real-Time Analytics of Massive IoT Data and Open Research Issues
14. Security Vulnerabilities of Internet of Things: A Case Study of the Smart Plug System
15. A Privacy Preserving Communication Protocol for IoT Applications in Smart Homes
16. Environmental Monitoring in Grain Granary Based on Embedded System
17. sufficient number of optimal tilt angle adjustment to maximize residential solar panels yield
18. Hazards in the installation and maintenance of solar panels