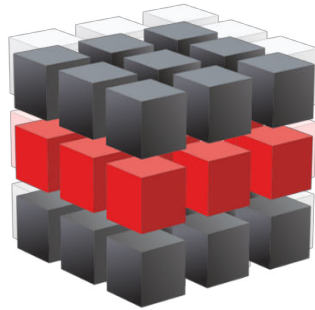




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CHENNAI – PONDICHERY

EMBEDDED TITLE LIST 2019-2020

EMBEDDED based HANDHELD PRODUCTS

1. Internet of Things Mobile – Air Pollution Monitoring System (IoT-Mob air). (IEEE 2019)
2. GSM Based Low-cost Gas Leakage, Explosion and Fire Alert System with Advanced Security. (IEEE 2019)
3. Waste Water Management for Smart Cities. (IEEE 2019)
4. Design and Implementation of an Interactive Road Safety System for Young Bikers. (IEEE 2019)

EMBEDDED based CYBER PHYSICAL SYSTEMS

1. Vehicle Accident Prevent cum Location Monitoring System. (IEEE 2019)
2. IoT-Based Interactive Dual Mode Smart Home Automation. (IEEE 2019)
3. A Novel Parking Management System, for Smart Cities, to save Fuel, Time, and Money. (IEEE 2019)

EMBEDDED based CYBER AUTOMATON SYSTEM

1. Development of Voice Control and Home Security. (IEEE 2019)
2. Towards A Novel Approach for Designing Smart Classrooms. (IEEE 2019)
3. Animal monitoring based on IoT technologies. (IEEE 2019)
4. Monitoring of Mining Workers At High Altitude. (IEEE 2019)

EMBEDDED based PERVASIVE COMPUTING

1. Design and Development of Air Pollution Monitoring. (IEEE 2019)
2. A Smart Home Automation and Metering System using Internet of Things (IoT). (IEEE 2019)
3. Smart School Bus: Ensuring Safety On The Road For School Children. (IEEE 2019)
4. An in-pipe leak detection robot with a neural-network based leak verification system. (IEEE 2019)

5. A Face Recognition Method in the Internet of Things for Security Applications in Smart Homes and Cities. (IEEE 2019)
6. OB CITY – Definition of a Family-Based Intervention for Childhood Obesity Supported by Information and Communication Technologies. (IEEE 2019)
7. Automated Medical Waste Segregation Machine Using Arduino Controller. (IEEE 2019)
8. Railroad Track Condition Monitoring Using Inertial Sensors and Digital Signal Processing: A Review. (IEEE 2019)
9. Planning and Navigation of Climbing Robots in Low-Gravity Environments. (IEEE 2019)
10. Diagnostic Measurement Practices for Instrument Transformers. (IEEE 2019)

EMBEDDED based ENERGY-SENSITIVE PRODUCTION CONTRO

1. Design Of A Monitoring System For Waste Management Using IoT. (IEEE 2019)
2. Multi Purpose Security System in Automobile Industry. (IEEE 2019)
3. An Intelligent Dress Uniform Identification System. (IEEE 2019)
4. A Two-Stage Data-Driven Approach for Image- Based Wind Turbine Blade Crack Inspections. (IEEE 2019)
5. IoT application for real-time monitoring of Solar Home Systems based on Arduino with 3G connectivity. (IEEE 2019)

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EMBEDDED based E-COM

1. Vehicle breaking Support System. (IEEE 2019)
2. Distributed Inference Condition Monitoring System for Rural Infrastructure in the Developing World. (IEEE 2019)
3. Control System. (IEEE 2019)
4. Automatic Detection of Wind Turbine Blade Surface Cracks Based on UAV- taken Images. (IEEE 2019)

EMBEDDED based BIOSCIENCE

1. ECG-Based Secure Health care Monitoring System. (IEEE 2019)

2. A Health Remote Monitoring Application based on Wireless Body Area Network. (IEEE 2019)
3. Intelligent Medicine Box For Medication Management Using IOT. (IEEE 2019)
4. Health Monitoring and Tracking System For Soldiers using IOT. (IEEE 2019)
5. A Smart Home Appliance Control System For Physically Disabled Person. (IEEE 2019)
6. Design and Implementation of a Bluetooth-Based MCU and GSM for Wetness Detection. (IEEE 2019)
7. Health Monitoring System for Elderly and Disabled People. (IEEE 2019)
8. IoT Based Smart Edge for Global Health: Remote Monitoring with Severity Detection and Alerts Transmission. (IEEE 2019)
9. IoT-Fog based Healthcare Framework to Identify and Control Hypertension Attack. (IEEE 2019)
10. Non-invasive Flexible and Stretchable Wearable Sensors with Nano- based Enhancement for Chronic Disease Care. (IEEE 2019)
11. Vital Sign Measurement in Telemedicine Rehabilitation Based on Intelligent Wearable Medical Devices. (IEEE 2019)
12. Cattle Health Monitoring System Using Wireless Sensor Network. (IEEE 2019)
13. Health-monitoring of pregnant women Design requirements, and proposed reference architecture. (IEEE 2019)
14. A New Design Approach for Gesture Controlled Smart Wheelchair Utilizing Microcontroller. (IEEE 2019)
15. Adjustment of Bed for a Patient Through Gesture Recognition. (IEEE 2019)
16. An Intelligent Mobile Agents System for Sudden Infant Death Syndrome Monitoring. (IEEE 2019)
17. Wearable Heart Rate Sensor Systems for Wireless Canine Health Monitoring. (IEEE 2019)
20. A Wireless Continuous Patient Monitoring System for Dengue; Wi- Mon (IEEE 2019)

EMBEDDED based BROWSING SYSTEM

1. On Access Control in Cabin-Based Transport Systems. (IEEE 2019)
2. Arduino Based Smart Fingerprint Authentication System. (IEEE 2019)
3. End to End IoT Based Hazard Monitoring System. (IEEE 2019)
4. Monitoring Effect of Air Pollution on Agriculture using WSNs. (IEEE 2019)

Embedded based TRANSPORTING

1. A Proposed Model of Integrated Smart Parking Solution for a city. (IEEE 2019)
2. Lane change detection algorithm on real world driving for arbitrary road infrastructures. (IEEE 2019)
3. Wireless Digital Traffic Signs of the Future. (IEEE 2019)
4. Research and design of environmental monitoring and road lighting system based on the Internet of things. (IEEE 2019)
5. Wearable Device-Based System to Monitor a Driver's Stress, Fatigue, and Drowsiness. (IEEE 2019)
6. Energy-efficient border intrusion detection using wireless sensors network. (IEEE 2019)

EMBEDDED based ARCHITECTURE

1. IOT based safety and health monitoring for construction worker. (IEEE 2019)
2. Real Time Monitoring & Analyzation Of Hazardous Parameters In Underground Coal Mines Using Intelligent Helmet System. (IEEE 2019)

EMBEDDED based MINI COMPUTER 3.0

1. IOT based Smart Garbage Monitoring System using Raspberry Pi. (IEEE 2019)
2. Design and Implementation of the Smart Glove to Aid the Visually Impaired. (IEEE 2019)
3. IoT based Smart Parking and Traffic Management System for Middle East College. (IEEE 2019)
5. Automatic Road Accident Detection using Ultrasonic Sensor. (IEEE 2019)

6. Raspberry Pi based Smart Fire Management System employing Sensor based Automatic Water Sprinkler. (IEEE 2019)
7. Water Quality Monitoring and Waste Management using IoT. (IEEE 2019)
8. Automated Blood Bank System Using Raspberry Pi. (IEEE 2019)
9. Advanced Anti-Terrorism Unmanned Ground Vehicle. (IEEE 2019)
11. A Personal Healthcare IoT System model using Raspberry Pi 3. (IEEE 2019)
12. Agricultural Field Monitoring using IoT. (IEEE 2019)
13. Automated irrigation and water level management system using Raspberry Pi 3. (IEEE 2019)
14. A Smart Office Automation System Using Raspberry Pi (Model- B). (IEEE 2019)
15. Surveillance Robot using Raspberry Pi and IoT. (IEEE 2019)
16. Healthcare Monitoring System and transforming Monitored data into Real time Clinical Feedback based on IoT using Raspberry Pi. (IEEE 2019)

EMBEDDED based ACTUALITY MOBILITY

1. Forest Fire Alerting System using GPS. (IEEE 2019)
2. Smartphone-Based System for Improving Pedestrian Safety (IEEE 2019)
3. An IOT Approach to Vehicle Accident Detection using Cloud Computing. (IEEE 2019)

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EMBEDDED based DIGITAL TWIN

1. Biometrically Secured Electronic Voting Machine. (IEEE 2019)
2. Voice Operated Intelligent Fire Extinguishing Vehicle. (IEEE 2019)
3. Enabling Technologies for the Internet of Health Things. (IEEE 2019)

EMBEDDED based APPLICATION

1. Smart ring for women safety using IOT. (IEEE 2019)
3. A Crowd source-Based Sensing System for Monitoring Fine-grained Air Quality in Urban Environments. (IEEE 2019)

4. Monitoring Vital Signs and Postures During Sleep Using WiFi Signals. (IEEE 2019)

XVII. EMBEDDED based ENERGY SAVING AND MANAGEMENT SYSTEM

1. Smart Energy Metering and Power Theft Control using Arduino & GSM. (IEEE 2019)

2. Implementation of Environment Parameters Monitoring in a Manufacturing Industry using IOT. (IEEE 2019)

3. Lifetime Optimization of Wireless Sensor Networks for Gas Monitoring in Underground Coal Mining.(IEEE 2019)

EMBEDDED based LIGHT AND 4G DATA

1. IoT based Intelligent Waste Bin. (IEEE 2019)

2. IoT based Green House Environment Monitoring. (IEEE 2019)

3. Embedded System Enabled Vehicle Collision Detection: An ANN Classifier. (IEEE 2019)

4. IoT Based Intelligent Agriculture Field Monitoring system. (IEEE 2019)

5. Internet of Things: Incorporation into Healthcare Monitoring. (IEEE 2019)

6. Internet of Things for Greenhouse Monitoring System Using Deep Learning and Bot Notification Services. (IEEE 2019)

7. A Health Remote Monitoring Application Based On Wireless Body Area Networks. (IEEE 2019)

8. Secured And Green Data Processing And Transmission In A Human- Vehicle Interaction Adas System. (IEEE 2019)

9. Performance Modeling For Multipath Mobile Data Offloading In Cellular/Wifi Networks. (IEEE 2019)

10. Smart Unit Care For Pre Fall Detection and prevention. (IEEE 2019)

EMBEDDED based SELF LAUNCH

1. Intelligent Ultrasonic Detection of Walking Stick for the Blind. (IEEE 2019)

2. Surveillance Robot with Human Detection. (IEEE 2019)

3. Unsupervised Online System Identification for Underwater Robotic Vehicles. (IEEE 2019)
4. Design and Implementation of a microcontroller based low cost DTMF Controlled Acoustic & Visual Detecting Robot to Monitor Child & Aged Person. (IEEE 2019)
5. Voice Operated Intelligent Fire Extinguishing Vehicle. (IEEE 2019)
6. Designing and Implementation of a Wireless Gesture Controlled Robot for Disabled and Elderly People. (IEEE 2019)
7. Wireless Synchronization Of Robotic Arm With Human Movements Using Arduino For Bomb Disposal. (IEEE 2019)
10. One Dimensional Moving Obstacle Detection Method for Mobile Robotics Applications. (IEEE 2019)

EMBEDDED based GET UP AND GO ENVIRONMENT

1. Design of Smart Home System Based on ZigBee. (IEEE 2019)
2. Enhanced IoT- Based Online Access Control System for Vehicles in Truck Loading Fuel Terminals. (IEEE 2019)
3. Wearable Wireless Sensor System with RF Remote Activation for Gas Monitoring Applications. (IEEE 2019)

EMBEDDED based VIRTUAL REALITY & LEAP MOTION

1. Cognitive Load Measurement In A Virtual Reality-Based Driving System For Autism Intervention. (IEEE 2019)
2. Supporting Trembling Hand Typing Using Optical See-Through Mixed Reality. (IEEE 2019)
3. Study Of Text Segmentation And Recognition Using Leap Motion Sensor. (IEEE 2019)

EMBEDDED based WEB EMPIRE

1. An Internet of Things Based Smart Surveillance and Monitoring System using Arduino. (IEEE 2019)
2. Automated Toll Tax Collection System using Cloud Database. (IEEE 2019)

3. Drowsiness Detection and Monitoring the Sleeping Pattern using Brainwaves Technology and IoT. (IEEE 2019)
4. Efficient IoT Based Smart Bin for Clean Environment. (IEEE 2019)
5. Water Level Monitoring and Management of Dams using IOT. (IEEE 2019)
6. Internet of Things Enhanced User Experience for Smart Water and Energy Management. (IEEE 2019)
7. Noncontact RF Vital Sign Sensor for Continuous Monitoring of Driver Status. (IEEE 2019)
8. Development of an Arduino-based CO2 Monitoring Device. (IEEE 2019)

EMBEDDED based HOMINOID-P

1. Smart Health Monitoring System through IOT. (IEEE 2019)
2. Smart Farming – IoT in Agriculture. (IEEE 2019)
3. A deep learning approach for vital signs compression and energy efficient delivery in mHealth systems. (IEEE 2019)
4. A Big Data Approach for Proactive Healthcare Monitoring of Chronic Patients. (IEEE 2019)
5. FishTalk: An IoT-based Mini Aquarium System. (IEEE 2019)
6. IoT based Safety System for Coal Mines. (IEEE 2019)

EMBEDDED based TILLAGE MANAGEMENT

1. Internet of Things (IoT) for Precision Agriculture Application. (IEEE 2019)
2. Gesture Controlled Wireless Agricultural Weeding Robot. (IEEE 2019)
3. Design of Green Agriculture System Using Internet of Things and Image Processing Techniques. (IEEE 2019)
4. Advanced Agriculture System using GSM Technology. (IEEE 2019)
5. IoT Solutions for Crop Protection against Wild Animal Attacks. (IEEE 2019)

EMBEDDED based HORTICULTURE MANAGEMENT

1. Protocol Implementation for Wireless Sensor Network for Anti-Poaching of Trees.(IEEE 2019)

2. Water Quality Monitoring System using IoT and Machine Learning. (IEEE 2019)

MEDICAL & HEALTH CARE

1. An IoT based Patient Health Monitoring System
2. Intelligent Medicine box for Medication Management using IoT
3. Advanced IOT Based Combined Remote Health Monitoring, Home Automation and Alarm System
4. MEDIBOX — IoT enabled patient assisting device
5. Eye ball Sensor for automatic Wheel Chair for paralyzed patients
6. An Adaptable and Extensible Mobile Sensing Framework for Patient Monitoring
7. Child Activity Recognition Based on Cooperative Fusion Model of a Triaxial Accelerometer and a Barometric Pressure Sensor
8. Novel Approach to Non-Invasive Blood Glucose Monitoring based on Transmittance and Refraction of Visible Laser Light
9. A Smart System Connecting e-Health Sensors and the Cloud
10. An Autonomous Wireless Body Area Network Implementation towards IoT Connected Healthcare Applications
11. IOT Humidity And Temperature Display
12. Smart Disease Surveillance Based on Internet of Things (IoT).
13. Heart Beat Monitoring over Internet using Arduino and ThingSpeak.
14. Health Care Monitoring System in Internet of Things (IoT) by Using RFID
15. We-Care: An IoT-based Health Care System for Elderly People
16. Design and Implementation of Low-Cost ECG Monitoring System for the Patient using Smart Device
17. Towards Intelligent Arabic Text-to-Speech Application for Disabled People
18. Smart Bio-Services: Automatic Accident Detection And Ambulance Rescue System.
19. Patient Medical Information System Using Finger Print
20. Accident Avoidance Systems in Blind Carvel
21. Voice Controlled Wheelchair for Disabled person



22. Bedside Patient Monitoring With Wireless Sensor Networks
23. Head moment Controlled Wheelchair for Disabled person
24. Fall Detection And Activity Monitoring For Oldsters
25. Accelerometer Based Gesture Recognition For Wheel Chair Direction Control
26. Hand moment Controlled Wheelchair for Disabled person
27. IOT Alcohol & Health Monitoring System
28. Coexistence of ZigBee-Based WBAN and WiFi for Health Telemonitoring Systems
29. IOT Based Heart Defect Monitoring System Using ECG
30. Approximation and Temperature Control System via an Actuator and a Cloud: An Application Based on the IoT for Smart Houses
31. IoT Based Intelligent Agriculture Field Monitoring System
32. Optimizing Routine Collection Efficiency in IoT based Garbage Collection Monitoring Systems
33. An ARM Based Wireless Sensors Network for Monitoring of Plants Health
34. Towards Safer Roads through cooperative Hazard Awareness and avoidance in connected Vehicles
35. A Novel Parking Management System, for Smart Cities, to save Fuel, Time, and Money
36. Analysis of Women Safety in Indian Cities Using Machine Learning on Tweets
37. Design and Implementation of Women Auspice System by Utilizing GPS and GSM
38. Design of Smart Helmet for Accident Avoidance
39. IoT Based Safety and Health Monitoring for Construction Workers
40. Development of Device for Gesture To Speech Conversion For The Mute Community
41. Design and implementation of IoT based smart laboratory
42. Door automation system based on speech command and PIN using Android smart phone



IOT

- 1) Syndrome: Spectral analysis for anomaly detection on medical IoT and embedded devices
- 2) Design and implementation of IoT based smart laboratory
- 3) A low-cost monitoring system for maximum power point of a photovoltaic system using IoT technique
- 4) Intelligent Border Security Intrusion Detection using IoT and Embedded systems
- 5) Development of Smart Cooking Stove: Harvesting Energy from the Heat, Gas Leakage Detection and IoT Based Notification System
- 6) Power Theft Identification System Using Iot
- 7) An IOT Approach to Vehicle Accident Detection using Cloud Computing
- 8) Gas Level Detection and Automatic Booking Using IoT
- 9) Forest Fire Alerting System With GPS Co-ordinates Using IoT
- 10)IoT-Based Interactive Dual Mode Smart Home Automation
- 11)A Smart Hydro Electric Generator in Home Based On IOT
- 12)Intelligent Border Security Intrusion Detection using IoT and Embedded systems
- 13)IoT based speed control of Smart Fan
- 14)Charging Station for E-Vehicle using Solar with IOT
- 15)An IoT Based Air Pollution Monitoring System for Smart Cities
- 16)Smart Power Monitoring System Using Iot
- 17)Non invasive health monitoring system for infant using IOT
- 18)Smart Waste Collection Monitoring and Alert System via IoT
- 19)An Educational IoT-based Indoor Environment Monitoring System
- 20)The Design and Implementation of GPS Controlled Environment Monitoring Robotic System based on IoT and ARM
- 21)Implementation of Environment Parameters Monitoring in a Manufacturing Industry using IOT
- 22)Next Generation of Medical Care Bed with Internet of Things Solutions
- 23)A Novel Smart Energy Theft System (SETS) for IoT-Based Smart Home
- 24)Design and Development of a Vehicle Safety Detection and Alarm System
- 25)A Smart Home Automation and Metering System using Internet of Things (IoT)
- 26)A Location-Based Smart Shopping System with IoT Technology
- 27)Smart parking using IoT technology
- 28)A novel and secure smart parking management system (SPMS) based on integration of WSN, RFID, and IoT
- 29)IoT-enabled smart lighting systems for smart cities
- 30)IoT based smart school bus monitoring and notification system
- 31)IoT based Car Pollution Detection Using AWS



- 32)IoT Driven Automated Object Detection Algorithm for Urban Surveillance Systems in Smart Cities.
- 33)IOT based Smart Waste Management in cities. Detection of garbage points and rubbish levels in containers to optimize the trash collection routes

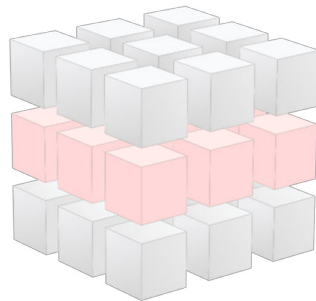
EMBEDDED SYSTEM

- 1) Bluetooth GPS Application Based On Latitude And Longitude For Child Tracking Model.
- 2) A Wireless Health Monitoring System Using Mobile Phone Accessories
- 3) Monitoring physiological variables of mining workers at high altitude.
- 4) Novel Approach to Non-Invasive Blood Glucose Monitoring based on Transmittance and Refraction of Visible Laser Light
- 5) Private and Secured Medical Data Transmission and Analysis for Wireless Sensing
Healthcare System
- 6) SelfPowered ZigBee Wireless Sensor Nodes for Railway Condition Monitoring.
- 7) A Wireless Sensor Monitoring Node Based on Automatic Tracking Solar-powered Panel for Paddy Field Environment
- 8) Towards an Energy-Efficient Anomaly-Based Intrusion Detection Engine for Embedded System.
- 9) Anti-theft protection of vehicle by GSM & GPS with fingerprint verification
- 10)Embedded Control System for Smart Walking Assistance Device
- 11)Direct and indirect sensing two-axis solar tracking system
- 12)A smart meter design and implementation using ZigBee based Wireless Sensor Network in Smart Grid
- 13)Child Safety Wearable Device
- 14)Vehicle Information Communication Safety Combined with Mobile RFID System
- 15)Low Cost Assistive Outdoor Navigation System for Blind People
- 16)A Two-level Traffic Light Control Strategy for Preventing Incident-Based Urban Traffic Congestion
- 17)Real-Time Signal Quality-Aware ECG Telemetry System for IoT-Based Care Monitoring.
- 18)Real-time Traffic Light Recognition Based on Smart Phone Platforms.
- 19)RFID-Based Attendance Management System
- 20)Towards Intelligent Arabic Text-to-Speech Application for Disabled People.
- 21)Design and Implementation of a Fingerprint Based Lock System for Shared Access.



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22) Low-Cost, Real-Time Obstacle Avoidance for Mobile Robots.



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