

## I. EMBEDDED based HANDHELD PRODUCTS

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

## II. 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)**

## III. 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)**

## IV. 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)**

## **V. 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)**

## VI. 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)**
5. Smart Pilgrim: A Mobile-Sensor-Cloud based System to Safeguard Pilgrims through Smart Environment. **(IEEE 2019)**

## VII. 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)**
18. Wearable Heart Rate Sensor Systems for Wireless Canine Health Monitoring. **(IEEE 2019)**
19. Implanted Knee Kinematics Prediction: comparative performance analysis of machine learning techniques. (IEEE 2019)

**20. A Wireless Continuous Patient Monitoring System for Dengue; Wi- Mon (IEEE 2019)**

## **VIII. EMBEDDED based BROWSING SYSTEM**

- 1. Bore well water quality and motor monitoring based on IOT gateway. (IEEE 2019)**
- 2. On Access Control in Cabin-Based Transport Systems. (IEEE 2019)**
- 3. Arduino Based Smart Fingerprint Authentication System. (IEEE 2019)**
- 4. End to End IoT Based Hazard Monitoring System. (IEEE 2019)**
- 5. Monitoring Effect of Air Pollution on Agriculture using WSNs. (IEEE 2019)**

## **IX. 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)**
- 7. Highly Secure Multiple Account Bank Affinity. (IEEE 2019)**

## **X. EMBEDDED based 2D**

1. An efficient texture descriptor for the detection of license plates from vehicle images. **(IEEE 2019)**
2. Smart home management system based on face recognition index in real-time. **(IEEE 2019)**
3. A deep learning facial expression recognition based scoring system for restaurants. **(IEEE 2019)**
4. Smart Leaf Infection Identification and Fertilizer Spray. **(IEEE 2019)**
5. Highly Secure Multiple Account Bank Affinity. **(IEEE 2019)**
6. OTP Based Cardless Transaction using ATM. **(IEEE 2019)**
7. Bone tumour detection and classification. **(IEEE 2019)**
8. Colour Image Segmentation for Malaria parasites Detection using Cascading Method. **(IEEE 2019)**
9. Automatic Sickle Cell Anemia Detection Using Image Processing Technique. **(IEEE 2019)**
10. Leukocyte Segmentation and Counting Based on Microscopic Blood Images Using HSV Saturation Component with Blob Analysis. **(IEEE 2019)**
11. CNN based training and classification of MRI Brain Images. **(IEEE 2019)**
12. Enhancing bank security using face, iris and finger vein technology. **(IEEE 2019)**
13. Gesture Recognition and finger tip detection for Human Computer Interaction. **(IEEE 2019)**
14. Diseases Detection of Various Plant Leaf Using Image Processing Techniques A Review. **(IEEE 2019)**

## **XI. 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)**

## **XII. EMBEDDED based CONSTRUCTION**

1. New Smart Home's energy management system design and implementation for frugal smart cities. **(IEEE 2019)**
2. Monitoring Corrosion Process of Reinforced Concrete Structure Using FBG Strain Sensor. **(IEEE 2019)**
3. Concrete Structure Using FBG Strain Sensor. **(IEEE 2019)**
4. Laboratory validation of corrosion-induced delamination in concrete by ground penetrating radar. **(IEEE 2019)**
5. Automated Road Crack Detection Using Deep Convolutional Neural Networks. **(IEEE 2019)**

## **XIII. 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)**
4. Rice Donation System in Orphanage Based on IOT, Raspberry-pi and Block chain. **(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)**
10. An Early Detection System for Proactive Management of Raw Milk Quality: An Australian Case Study. **(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)**
17. Person Recognition for Access Logging. **(IEEE 2019)**

#### **XIV. 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)**
4. Design and Implementation of a Smart Home Energy Saving System with Active Loading Feature Identification and Power Management. **(IEEE 2019)**



5. IoT-BBMS: Internet of Things-based Baby Monitoring System for Smart Cradle. **(IEEE 2019)**

## **XV. 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)**
4. An IoT Based Proposed System for Monitoring Manhole in Context of Bangladesh. **(IEEE 2019)**
5. Cloud-based Vehicle Functions: Motivation, use-cases and Classification. **(IEEE 2019)**

## **XVI. EMBEDDED based APPLICATION**

1. Smart ring for women safety using IOT. **(IEEE 2019)**
2. Smartphone-Based System for Improving Pedestrian Safety. **(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)**

## **XVIII. EMBEDDED based RACKET CONTROL AND PREVENTION**

1. A Review on Human-Centered IoT-Connected Smart Labels for the Industry 4.0. **(IEEE 2019)**
2. An IoT Approach for an AAL Wi-Fi-Based Monitoring System. **(IEEE 2019)**

## **XIX. 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)**

## **XX. 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)**
8. Control System of a Wall Climbing Robot for Automatic Welding. **(IEEE 2019)**
9. Multi-Task Cascaded Convolutional Networks based Intelligent Fruit Detection for Designing Automated Robot. **(IEEE 2019)**
10. One Dimensional Moving Obstacle Detection Method for Mobile Robotics Applications. **(IEEE 2019)**

## **XXI. 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)**

## **XXII. 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)**

## **XXIII. 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)**

## **XXIV. 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)**

## **XXV. 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)**

## **XXVI. 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)**

3. Sensor for real-time animal condition and movement monitoring Physical sensors for precision aquaculture: A Review.