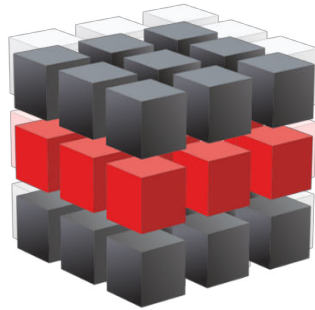**MICANS Infotech**

Innovations For Business

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Innovations For Business

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CHENNAI – PONDICHERRY

EMBEDDED TITLE LIST 2020-2021

EMBEDDED based HANDHELD PRODUCTS

1. Internet of Things Mobile – Air Pollution Monitoring System (IoT-Mob air). (IEEE 2020)

2. GSM Based Low-cost Gas Leakage, Explosion and Fire Alert System with Advanced Security. (IEEE 2020)

3. Waste Water Management for Smart Cities. (IEEE 2020)

4. Design and Implementation of an Interactive Road Safety System for Young Bikers. (IEEE 2020)

EMBEDDED based CYBER PHYSICAL SYSTEMS

1. Vehicle Accident Prevent cum Location Monitoring System. (IEEE 2020)

2. IoT-Based Interactive Dual Mode Smart Home Automation. (IEEE 2020)

3. A Novel Parking Management System, for Smart Cities, to save Fuel, Time, and Money. (IEEE 2020)

EMBEDDED based CYBER AUTOMATON SYSTEM

1. Development of Voice Control and Home Security. (IEEE 2020)

2. Towards A Novel Approach for Designing Smart Classrooms. (IEEE 2020)

3. Animal monitoring based on IoT technologies. (IEEE 2020)

4. Monitoring of Mining Workers At High Altitude. (IEEE 2020)

EMBEDDED based PERVASIVE COMPUTING

1. Design and Development of Air Pollution Monitoring. (IEEE 2020)

2. A Smart Home Automation and Metering System using Internet of Things (IoT). (IEEE 2020)

3. Smart School Bus: Ensuring Safety On The Road For School Children. (IEEE 2020)

4. An in-pipe leak detection robot with a neural-network based leak verification system. (IEEE 2020)

5. A Face Recognition Method in the Internet of Things for Security Applications in Smart Homes and Cities. (IEEE 2020)

6. OB CITY – Definition of a Family-Based Intervention for Childhood Obesity Supported by Information and Communication Technologies. (IEEE 2020)

7. Automated Medical Waste Segregation Machine Using Arduino Controller. (IEEE 2020)

8. Railroad Track Condition Monitoring Using Inertial Sensors and Digital Signal Processing: A Review. (IEEE 2020)

9. Planning and Navigation of Climbing Robots in Low-Gravity Environments. (IEEE 2020)

10. Diagnostic Measurement Practices for Instrument Transformers. (IEEE 2020)

EMBEDDED based ENERGY-SENSITIVE PRODUCTION CONTRO

1. Design Of A Monitoring System For Waste Management Using IoT. (IEEE 2020)

2. Multi Purpose Security System in Automobile Industry. (IEEE 2020)

3. An Intelligent Dress Uniform Identification System. (IEEE 2020)

4. A Two-Stage Data-Driven Approach for Image- Based Wind Turbine Blade Crack Inspections. (IEEE 2020)

5. IoT application for real-time monitoring of Solar Home Systems based on Arduino with 3G connectivity. (IEEE 2020)

EMBEDDED based E-COM

1. Vehicle breaking Support System. (IEEE 2020)

2. Distributed Inference Condition Monitoring System for Rural Infrastructure in the Developing World. (IEEE 2020)

3. Control System. (IEEE 2020)

4. Automatic Detection of Wind Turbine Blade Surface Cracks Based on UAV- taken Images. (IEEE 2020)

EMBEDDED based BIOSCIENCE

1. ECG-Based Secure Health care Monitoring System. (IEEE 2020)

2. A Health Remote Monitoring Application based on Wireless Body Area Network. (IEEE 2020)

3. Intelligent Medicine Box For Medication Management Using IOT. (IEEE 2020)

4. Health Monitoring and Tracking System For Soldiers using IOT. (IEEE 2020)

5. A Smart Home Appliance Control System For Physically Disabled Person. (IEEE 2020)

6. Design and Implementation of a Bluetooth-Based MCU and GSM for Wetness Detection. (IEEE 2020)

7. Health Monitoring System for Elderly and Disabled People. (IEEE 2020)

8. IoT Based Smart Edge for Global Health: Remote Monitoring with Severity Detection and Alerts Transmission. (IEEE 2020)

9. IoT-Fog based Healthcare Framework to Identify and Control Hypertension Attack. (IEEE 2020)

10. Non-invasive Flexible and Stretchable Wearable Sensors with Nano- based Enhancement for Chronic Disease Care. (IEEE 2020)

11. Vital Sign Measurement in Telemedicine Rehabilitation Based on Intelligent Wearable Medical Devices. (IEEE 2020)

12. Cattle Health Monitoring System Using Wireless Sensor Network. (IEEE 2020)

13. Health-monitoring of pregnant women Design requirements, and proposed reference architecture. (IEEE 2020)

14. A New Design Approach for Gesture Controlled Smart Wheelchair Utilizing Microcontroller. (IEEE 2020)

15. Adjustment of Bed for a Patient Through Gesture Recognition. (IEEE 2020)

16. An Intelligent Mobile Agents System for Sudden Infant Death Syndrome Monitoring. (IEEE 2020)

17. Wearable Heart Rate Sensor Systems for Wireless Canine Health Monitoring. (IEEE 2020)

20. A Wireless Continuous Patient Monitoring System for Dengue; Wi- Mon (IEEE 2020)

EMBEDDED based BROWSING SYSTEM

1. On Access Control in Cabin-Based Transport Systems. (IEEE 2020)

2. Arduino Based Smart Fingerprint Authentication System. (IEEE 2020)

3. End to End IoT Based Hazard Monitoring System. (IEEE 2020)

4. Monitoring Effect of Air Pollution on Agriculture using WSNs. (IEEE 2020)

Embedded based TRANSPORTING

1. A Proposed Model of Integrated Smart Parking Solution for a city. (IEEE 2020)

2. Lane change detection algorithm on real world driving for arbitrary road infrastructures. (IEEE 2020)

3. Wireless Digital Traffic Signs of the Future. (IEEE 2020)

4. Research and design of environmental monitoring and road lighting system based on the Internet of things. (IEEE 2020)

5. Wearable Device-Based System to Monitor a Driver's Stress, Fatigue, and Drowsiness. (IEEE 2020)

6. Energy-efficient border intrusion detection using wireless sensors network. (IEEE 2020)

EMBEDDED based ARCHITECTURE

1. IOT based safety and health monitoring for construction worker. (IEEE 2020)

2. Real Time Monitoring & Analyzation Of Hazardous Parameters In Underground Coal Mines Using Intelligent Helmet System. (IEEE 2020)

EMBEDDED based MINI COMPUTER 3.0

1. IOT based Smart Garbage Monitoring System using Raspberry Pi. (IEEE 2020)

2. Design and Implementation of the Smart Glove to Aid the Visually Impaired. (IEEE 2020)

3. IoT based Smart Parking and Traffic Management System for Middle East College. (IEEE 2020)

5. Automatic Road Accident Detection using Ultrasonic Sensor. (IEEE 2020)

6. Raspberry Pi based Smart Fire Management System employing Sensor based Automatic Water Sprinkler. (IEEE 2020)

7. Water Quality Monitoring and Waste Management using IoT. (IEEE 2020)

8. Automated Blood Bank System Using Raspberry Pi. (IEEE 2020)

9. Advanced Anti-Terrorism Unmanned Ground Vehicle. (IEEE 2020)

11. A Personal Healthcare IoT System model using Raspberry Pi 3. (IEEE 2020)

12. Agricultural Field Monitoring using IoT. (IEEE 2020)

13. Automated irrigation and water level management system using Raspberry Pi 3. (IEEE 2020)

14. A Smart Office Automation System Using Raspberry Pi (Model- B). (IEEE 2020)

15. Surveillance Robot using Raspberry Pi and IoT. (IEEE 2020)

16. Healthcare Monitoring System and transforming Monitored data into Real time Clinical Feedback based on IoT using Raspberry Pi. (IEEE 2020)

EMBEDDED based ACTUALITY MOBILITY

1. Forest Fire Alerting System using GPS. (IEEE 2020)

2. Smartphone-Based System for Improving Pedestrian Safety (IEEE 2020)

3. An IOT Approach to Vehicle Accident Detection using Cloud Computing. (IEEE 2020)

EMBEDDED based DIGITAL TWIN

1. Biometrically Secured Electronic Voting Machine. (IEEE 2020)

2. Voice Operated Intelligent Fire Extinguishing Vehicle. (IEEE 2020)

3. Enabling Technologies for the Internet of Health Things. (IEEE 2020)

EMBEDDED based APPLICATION

1. Smart ring for women safety using IOT. (IEEE 2020)

3. A Crowd source-Based Sensing System for Monitoring Fine-grained Air Quality in Urban Environments. (IEEE 2020)

4. Monitoring Vital Signs and Postures During Sleep Using WiFi Signals. (IEEE 2020)

XVII. EMBEDDED based ENERGY SAVING AND MANAGEMENT SYSTEM

1. Smart Energy Metering and Power Theft Control using Arduino & GSM. (IEEE 2020)

2. Implementation of Environment Parameters Monitoring in a Manufacturing Industry using IOT. (IEEE 2020)

3. Lifetime Optimization of Wireless Sensor Networks for Gas Monitoring in Underground Coal Mining.(IEEE 2020)

EMBEDDED based LIGHT AND 4G DATA

1. IoT based Intelligent Waste Bin. (IEEE 2020)

2. IoT based Green House Environment Monitoring. (IEEE 2020)

3. Embedded System Enabled Vehicle Collision Detection: An ANN Classifier. (IEEE 2020)

4. IoT Based Intelligent Agriculture Field Monitoring system. (IEEE 2020)

5. Internet of Things: Incorporation into Healthcare Monitoring. (IEEE 2020)

6. Internet of Things for Greenhouse Monitoring System Using Deep Learning and Bot Notification Services. (IEEE 2020)

7. A Health Remote Monitoring Application Based On Wireless Body Area Networks. (IEEE 2020)

8. Secured And Green Data Processing And Transmission In A Human- Vehicle Interaction Adas System. (IEEE 2020)

9. Performance Modeling For Multipath Mobile Data Offloading In Cellular/Wifi Networks. (IEEE 2020)

10. Smart Unit Care For Pre Fall Detection and prevention. (IEEE 2020)

EMBEDDED based SELF LAUNCH

1. Intelligent Ultrasonic Detection of Walking Stick for the Blind. (IEEE 2020)

2. Surveillance Robot with Human Detection. (IEEE 2020)

3. Unsupervised Online System Identification for Underwater Robotic Vehicles. (IEEE 2020)

4. Design and Implementation of a microcontroller based low cost DTMF Controlled Acoustic &Visual Detecting Robot to Monitor Child & Aged Person. (IEEE 2020)

5. Voice Operated Intelligent Fire Extinguishing Vehicle. (IEEE 2020)

6. Designing and Implementation of a Wireless Gesture Controlled Robot for Disabled and Elderly People. (IEEE 2020)

7. Wireless Synchronization Of Robotic Arm With Human Movements Using Arduino For Bomb Disposal. (IEEE 2020)

10. One Dimensional Moving Obstacle Detection Method for Mobile Robotics Applications. (IEEE 2020)

EMBEDDED based GET UP AND GO ENVIRONMENT

1. Design of Smart Home System Based on ZigBee. (IEEE 2020)

2. Enhanced IoT- Based Online Access Control System for Vehicles in Truck Loading Fuel Terminals. (IEEE 2020)

3. Wearable Wireless Sensor System with RF Remote Activation for Gas Monitoring Applications. (IEEE 2020)

EMBEDDED based VIRTUAL REALITY & LEAP MOTION

1. Cognitive Load Measurement In A Virtual Reality-Based Driving System For Autism Intervention. (IEEE 2020)

2. Supporting Trembling Hand Typing Using Optical See-Through Mixed Reality. (IEEE 2020)

3. Study Of Text Segmentation And Recognition Using Leap Motion Sensor. (IEEE 2020)

EMBEDDED based WEB EMPIRE

1. An Internet of Things Based Smart Surveillance and Monitoring System using Arduino. (IEEE 2020)

2. Automated Toll Tax Collection System using Cloud Database. (IEEE 2020)

3. Drowsiness Detection and Monitoring the Sleeping Pattern using Brainwaves Technology and IoT. (IEEE 2020)

4. Efficient IoT Based Smart Bin for Clean Environment. (IEEE 2020)

5. Water Level Monitoring and Management of Dams using IOT. (IEEE 2020)

6. Internet of Things Enhanced User Experience for Smart Water and Energy Management. (IEEE 2020)

7. Noncontact RF Vital Sign Sensor for Continuous Monitoring of Driver Status. (IEEE 2020)

8. Development of an Arduino-based CO_2 Monitoring Device. (IEEE 2020)

EMBEDDED based HOMINOID-P

1. Smart Health Monitoring System through IOT. (IEEE 2020)

2. Smart Farming – IoT in Agriculture. (IEEE 2020)

3. A deep learning approach for vital signs compression and energy efficient delivery in mHealth systems. (IEEE 2020)

4. A Big Data Approach for Proactive Healthcare Monitoring of Chronic Patients. (IEEE 2020)

5. FishTalk: An IoT-based Mini Aquarium System. (IEEE 2020)

6. IoT based Safety System for Coal Mines. (IEEE 2020)

EMBEDDED based TILLAGE MANAGEMENT

1. Internet of Things (IoT) for Precision Agriculture Application. (IEEE 2020)

2. Gesture Controlled Wireless Agricultural Weeding Robot. (IEEE 2020)

3. Design of Green Agriculture System Using Internet of Things and Image Processing Techniques. (IEEE 2020)

4. Advanced Agriculture System using GSM Technology. (IEEE 2020)

5.IoT Solutions for Crop Protection against Wild Animal Attacks. (IEEE 2020)

EMBEDDED based HORTICULTURE MANAGEMENT

1. Protocol Implementation for Wireless Sensor Network for Anti-Poaching of Trees.(IEEE 2020)

2. Water Quality Monitoring System using IoT and Machine Learning. (IEEE 2020)

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 (loT) 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 Recognisation 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
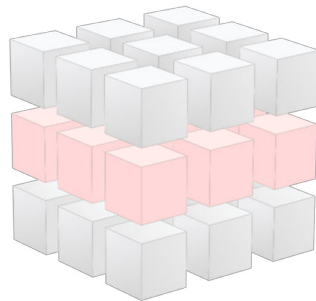
EMBEDDED SYSTEM

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.

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