

PROMISE FOR THE BEST PROJECTS

FINAL YEAR PROJECTS IEEE PROJECTS 2010 - 2011

DOMANWSELS

EMBEDDED SYSTEM PROJECTS * MICROCONTROLLERS * * VLSI * DSP * MATLAB *

109, 2 nd Floor, Bombay Flats, Nungambakkam High Road Nungambakkam, Chennai – 34 Near Ganpat Hotel, Above IOB, Next to ICICI

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FINAL YEAR PROJECTS & & IEEE PROJECTS, 2010 - 2011

Why NCCT

Complete Guidance * On time Completion * Excellent Support Multi platform Training * Flexibility

PROJECTS SUPPORTS & DELMERABLES

- Project Abstracts & IEEE Paper
- Project Block Diagram & Circuit Diagram
- Datasheets and Manuals



- PPT & Review Details Guidance
- Project Report Guidance
- Working Procedure & Screen Shots
- Materials & Reference Books in DVD
- **Project Completion Certificate**



EMBEDDED SYSTEM PROJECTS

PROJECT AREAS

- > MCROCONFICUEREROBELES
- > **VSIROBCIS**
- > **DEPIROLECES**
- > **NELABROHEES**
- > **Elometical** Protects
- > FOMERSYSTEMPROTECTS
- > FOM RELEGENCISH DECES
- > **BECHCALROECTS**
- > TELE COMMUNICATION PROJECTS
- > **EIO METRICS PROJECTS**
- DIGITAL SIGNAL CONTROLLER PROJECTS
- MUTORS, DRIVES & CONTROL PROJECTS
- > COMMUNICATION PROJECTS
- > INSTRUMENTATION PROJECTS
- > MECHANICAL PROJECTS
- > MEMS/MECHATRONICS PROJECTS
- > THERWAL ENGINEERING PROJECTS
- > AUTOMOBILE / AUTOMOTIVE PROJECTS
- > CONTROL ENGINEERING PROJECTS
- > APPLIED ELECTRONICS PROJECTS



IEEE TRANSACTIONS PROJECTS ON

Automatic Control / Biomedical Engineering / Broadcasting / Communications / Consumer Electronics / Control Systems / Energy Conversion / Fuzzy Systems / Industrial Electronics / Instrumentation and Measurement / Intelligent Transportation Systems / Power Electronics / Power Systems / Robotics / VLST Systems / Wireless Communications /

Domains including Embedded Microcontroller Kits, Models

Any IEEE & NON IEEE Projects in any Domain / any Application can be Implemented

Do you have any Innovative / Challenging Projects or Concepts

Nungembacken, Chernai et a. Mear Garpa: Hourt, Abore IOB, Next to ICICI www.ncct.in, www.ieeoperejects.net, ncctchennai@gmail.com 044-28235816, 98411 93224, 93801 02891



design industry is projected to grow from \$ 3.3 billion in 2005 to \$ 43 billion in 2015.

This tremendous rate of growth will require a large number of skilled professionals, more than 500,000

Expansion plans by MNCs and NASSCOM suggest embedded systems to be the





1. A Modular Cost-Effective Mobile Robot Navigation System Using RFID Technology - 2009

2. A Fast Onboard Relative Positioning Module for Multi robot Systems – 2009

3. Real-time audio-visual calls detection system for a Chicken Robot - 2009

4. Swarm Robot Synchronization using RFID Tags – 2009

5. Speed and position Control of Autonomous Mobile Robot on Variable Trajectory Depending on its Curvature – 2009

- 6. Simple sensors provide inputs for cognitive robots 2009
- 7. Development of a Module based Platform for Mobile Robots 2008
- 8. Coal Mine Detect and Rescue Robot Design and Research 2008

9. A Fuzzy Controller for Autonomous Negotiation of Stairs by a Mobile Robot with Adjustable Tracks – 2008

- 10. A novel robot system for surface inspection and diameter measurement of large size 2008
- 11. A task planner for a dual-arm robot: A geometric formulation 2008
- 12. A Methodology for Implementation the CPAC Approach to Path Tracking with Six-DOF Robotic Manipulators – 2008
- 13. GPS-Based Path Following Control for a Car-Like Wheeled Mobile Robot With Skidding and Slipping - 2008
- 14. Hydraulic Simulation and Remote Control System of Field Robot 2008



- 15. Implementation of Obstacle Avoidance and ZigBee Control Functions for Omni Directional Mobile Robot 2008
- 16. Interactive Object Acquisition based on Robot Technology Middleware (RTM) for 3 Axis Robot 2008
- 17. Real-time Bluetooth communication system for control of a mobile robot 2008
- Real-Time Control of a Two-Wheeled Inverted Pendulum Mobile Robot 2008
- 19. Robotic Software Architecture for Multi-sensor Fusion System 2008
- 20. Visual Servo Control of a Three Degree of Freedom Robotic Arm System – 2008
- 21. Walking Hexapod Robot in Disaster Recovery: Developing Algorithm for Terrain Negotiation and Navigation – 2008
- 22. An autonomous surveillance and security robot team 2007
- 23. A Dynamic Target Tracking of Car-Like Wheeled Robot in a Sensor-Network Environment via Fuzzy Decentralized Sliding-Mode 2007
- 24. Autonomous Fire-Detection System Using Adaptive Sensory Fusion for Intelligent Security Robot - Mechatronics, IEEE - June 2007
- 25. Development of a Person Following Mobile Robot in Complicated Background by Using Distance and Color Information - 2007
- 26. Using AC Motors in Robotics 2007
- 27. Design and Implementation of Internet Based Healthcare Robot System 2007
- 28. Fuzzy Controller Designed by GA for Two-Wheeled Mobile Robots 2007
- 29. The WURDE Robotics Middleware and RIDE Multi-Robot Tele-Operation Interface – 2006



- 30. Modular Sensor Processing for Robotics based Security in Hazardous Environments – 2006
- 31. MERMAID Multiple Robot Middleware for Intelligent Decision-Making 2006
- 32. Development of a Multimode Navigation System for an Assistive Robotics Project 2006
- 33. Semi-Autonomous Teleoperation of Multiple Cooperative Robots for Human-Robot lunar Exploration – 2006
- 34. Security Service Robot in ubiquitous Environment based on Cognitive Robotic Engine 2006
- 35. The Future of Robot-Assisted Learning in the Home 2006
- 36. Dual functional Reconfigurable Mobile Robot 2006
- 37. Conveyor Visual Tracking using robot Vision 2006
- 38. BlueBot: asset tracking via robotic location crawling Pervasive Services, 2005
- **39.** A Humanoid Robot to Prevent Children Accidents 2005
- 40. A Voice Guiding System for Autonomous Robots- 2005
- 41. Development of Autonomous Robotic Wheelchair System 2005
- 42. Neuro Fuzzy Controllers and Application to Autonomous Robots 2005
- 43. The OmniTread Serpentine Robot for Industrial Inspection and surveillance 2005
- 44. A Tele-Operated Humanoid Robot Drives a Lift Truck
- 45. A TestBed for Voice based Robot Control
- 46. An Autonomous Assistant Robot for Book manipulation in a Library
- 47. An Exoskeletal Robot Manipulator for Lower Limbs Rehabilation



- 48. Drishti: an integrated navigation system for visually impaired and disabled
- 49. Vision Control of a Robotic Hand
- 50. Deriving and Matching Image Fingerprint Sequences fro Mobile Robot Localization
- 51. Design and Implementation of an Open Autonomous Mobile Robot System
- 52. Designing a Secure and Robust Mobile Interacting Robot for the Long Term
- 53. Detection of Abnormal Movement of Industrial Robots using Image Sequence
- 54. Dual functional reconfigurable mobile robot IEEE
- 55. Fusion of Voice, Gesture, and human-Computer Interface Controls for Remotely Operated Robot
- 56. Firebot: Design of an Autonomous Fire Fighting Robot
- 57. Hybrid Control of Semi-Autonomous Robots
- 58. Implementing Multiple Robot Architectures using Mobile Agents
- 59. Navigation of Mobile Robot using Global Positioning System (GPS) and Obstacle Avoidance System with Commanded
- 60. Obstacle Avoidance of Mobile Robots using Ordinal structure Model of Fuzzy Reasoning Approach
- 61. RoboCart: Toward Robot-Assisted Navigation of Grocery Stores by the Visually Impaired
- 62. Telerobotics: Through-The-Internet Teleoperation of the ABB IRB 2000 Industrial Robot
- 63. Control and Monitoring of Mobile Robot system using Bluetooth



64. Control of a Simple DC Motor Robot Equiped with Ultrasonic Sensors via a Field Programmable Gate Array





1. Mobile RFID Tag Detection Influence Factors and Prediction of Tag Detectability – 2009

2. Ontology Alignment in RFID Privacy Protection – 2009

3. Boarding School Students Monitoring Systems (E-ID) Using Radio Frequency Identification - 2009

4. Providing Group Tour Guide by RFIDs and Wireless Sensor Networks - 2009

5. Car Park System: A Review of Smart Parking System and its technology - 2009

6. Load Shedding based Resource Management Techniques for RFID Data - 2009

7. RFID based People Management System using UHF Tags - 2009

8. A Wireless-Implantable Micro system for Continuous Blood Glucose Monitoring - 2009

- 9. RFID tag bearing estimation for mobile robot localization 2009
- 10. A Secure Architecture for the Use of RFID at Home 2009
- 11. A Low-Cost Wireless Sensor System and Its Application in Dental Retainers - 2009
- 12. Mobile RFID Tag Detection Influence Factors and Prediction of Tag Detectability - 2009
- 13. Ontology Alignment in RFID Privacy Protection 2009
- 14. A Modular Cost-Effective Mobile Robot Navigation System Using RFID Technology - 2009

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- 15. Human Recognition using RFID Technology and Stereo Vision 2009
- 16. RFID Based Library Management System 2009
- 17. A Comparative Analysis of RFID Adoption in Retail & Manufacturing Sectors - 2008
- Design of an RFID-Based Battery-Free Programmable Sensing Platform – 2008
- 19. Dynamic Traffic Light Sequence Algorithm using RFID 2008
- 20. Integration of RFID and Wireless Sensor Networks 2008
- 21. Location-based System for Mobile Devices using RFID 2008
- 22. Neural Network Based Efficient Knowledge Discovery in Hospital Databases Using RFID Technology 2008
- 23. Pinpointing the Place of Origin of a Cellular Phone Emergency Call Using Active RFID Tags - 2008
- 24. Policy and Role based Mobile RFID User Privacy Data Management System- 2008
- 25. RFID application strategy and Deployment in Bike Renting system 2008
- 26. SIP-RLTS: An RFID Location Tracking System based on SIP 2008
- 27. Tamper Detection in RFID-Enable Supply Chains 2008
- 28. Smart Configurable Wireless Sensors and Actuators for Industrial Monitoring and Control - 2008
- 29. Location-based System for Mobile Devices using RFID 2008
- 30. Design of a Semi-Autonomous Parking Assist System 2008
- 31. Automatic control of students' attendance in classrooms using RFID 2008



- 32. An Intelligent Mobile Robot Navigation Technique Using RFID Technology 2008
- 33. The Research and Development of the Highway Electronic Toll Collection System 2008
- 34. PGS: Parking Guidance System based on Wireless Sensor Network 2008
- 35. RFID based Vehicle Number Tracking and Traffic Monitoring 2008
- 36. Hospital Automation RFID-Based Technology Stored In Smart Cards 2008
- 37. Building A Smart University using RFID Technology 2008
- 38. Design of an RFID-Based Battery-Free Programmable Sensing Platform 2008
- 39. Parking Guidance System using RFID and Image Processing Techniques in WSN Environment 2007
- 40. Shopping Path Analysis and Transaction mining based on RFID Technology 2007
- 41. Transportation Quality Monitor Using Sensor Active RFID 2007
- 42. The Case for Multi-Tag RFID Systems 2006
- 43. Radio Frequency Identification (RFID): Applications and Indian Scenario 2006
- 44. An RFID Application for the Disabled: Path Finder- 2005
- 45. Application Fields of RFID in Health Safety and Environment management 2005
- 46. Inventory Management using Passive RFID Tag: A Survey
- 47. The Blocker Tag: Selective Blocking of RFID Tags for Consumer Privacy



48. Utilizing RFID signaling scheme for localization of stationary objects and speed estimation of Mobile objects



FINGERPRINT PROJECTS

- 1. Fingerprint Authentication System using a Low-Priced Webcam 2008
- 2. Fingerprint Authentication using Back-Propagation Algorithm 2008
- 3. Integrating Fingerprint with Cryptosystem for Internet based Live Pay-TV System – 2007

4. Biometric Mobile Template Protection: A Composite Feature based Fingerprint Fuzzy Vault – 2007

5. Fingerprint Verification for Control of Electronic Blast Initiation – 2006

6. Fingerprinting Codes for Live Pay-Television Broadcast via Internet – 2005

- 7. Fuzzy Fingerprints for Text based Information Retrieval 2005
- 8. Secure and Fast Fingerprint Authentication on Smart Card 2005
- 9. Remote Physical Device Fingerprinting 2005
- 10. Fingerprint Identification and Verification System using Minutiae Matching
- 11. Fingerprint Identification using the Accidental coincidence Probability
- 12. Fingerprint Matching: Data Acquisition and Performance Evaluation
- 13. Fingerprint Verification using Smart Cards for Access Control Systems
- 14. Secure Smartcard based Fingerprint Authentication





A Zigbee and Zigbee-to-IR Device Control Scheme for Single Media Multi Devices – 2009

1. Design and Realization of Wireless Sensor Network Gateway Based on ZigBee and GPRS – 2009

2. Improve Communication Efficiency for the Physiological Information Monitor System Based on Zigbee – 2009

3. A ZigBee wireless sensor network compliant with the IEEE1451 standard - 2009

4. An Automatic TOU Meter Reading using ZigBee - 2009

5. Multistage Waveform Coding for Voice Communication Over Zigbee Networks – 2009

6. An On-line Monitoring System of Temperature of Conductors and Fittings Based on GSM SMS and Zigbee – 2008

7. An Implementation of an Underground Wireless Sensor Network using Zigbee – 2008

8. A wireless network based on the combination of Zigbee and GPRS - 2008

- 9. Forest Fire Detection System based on a Zigbee Wireless Sensor Network – 2008
- 10. Zigbee source route technology in Home application 2008
- 11. ZigBee WiMAX Nursery System for patient monitoring 2008
- 12. Custom wireless sensor network based on Zigbee 2007



- 13. Design of Air pollution monitoring system using Zigbee n/w for Ubiquitous-city 2007
- 14. Design and Implementation of ZigBee based URC Applicable to Legacy Home Appliances – 2007
- 15. Realization of Home remote control network based on Zigbee 2007
- 16. Design of an RFID / Zigbee Network for Blind Navigation 2006
- 17. Development of Zigbee based Street Light Control System 2006
- 18. Remote Wireless Face Recognition Employing Zigbee 2006
- 19. Development of Zigbee based Street Light Control System 2006
- 20. Parking Management System using Zigbee 2006
- 21. Quick Convergecast in Zigbee/IEEE 802.15.4 Tree based Wireless Sensor Networks 2006
- 22. Application of Wireless Protocols Bluetooth and Zigbee in Telemetry System Development – 2005
- 23. Wireless Home Security and Automation System Utilizing Zigbee based Multi-Hop Communication
- 24. Development of a Zigbee based Wireless Sensor Network Node for Automatic Data Acquisition and Transfer
- 25. Home Networking with Zigbee





1. A Novel MEMS Respiratory Flow Sensor – 2010

2. Design and Simulation of a Multi Function MEMS Sensor for Health and Usage Monitoring – 2010

3. A Web Service-based Alarm Solution in a TeleCare System – 2009

4. A Remote Compact Sensor for the Real-Time Monitoring of Human Heartbeat and Respiration Rate - 2009

5. A Low-Cost Wireless Sensor System and Its Application in Dental Retainers – 2009

6. A New Telemedicine System for the Home Monitoring of Lung Function in Patients with Obstructive Respiratory Diseases – 2009

7. Body Temperature and Electrocardiogram Monitoring Using an SMSbased Telemedicine System – 2009

8. Implantable Myoelectric Sensors (IMESs) for Intramuscular Electromyogram Recording – 2009

9. Assessment of Changes in Upper Airway Obstruction by Automatic Identification of Inspiratory Flow Limitation During Sleep – 2009

- 10. Opportunistic Medical Monitoring using Bluetooth P2P networks 2009
- 11. Automated Phone Capture of Diabetes Patients Readings / Consultant Monitoring via the Web - 2008
- 12. An Ear-Lead ECG based Smart Sensor System with Voice Biofeedback for Daily Activity Monitoring 2008
- 13. A Portable Intelligent ECG Monitor based on Wireless Internet and Embedded System Technology 2008

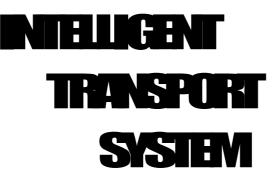


- 14. Electronic Medical Record for Effective Patient Monitoring Database 2008
- 15. Mobile Messaging Services based personal Electrocardiogram Monitoring System – 2008
- 16. E-Inclusion Technologies for the Speech Handicapped 2008
- 17. Mobile Web Server for Elderly People Monitoring 2008
- 18. Wearable Physiological Monitoring System using 2.4Ghz RF Transceiver – 2007
- 19. Extended Health Visibility in the Hospital Environment 2007
- 20. Face Detection using PCA and Skin-Tone Extraction for Drowsy Driver Application 2007
- 21. Processor Customization for Wearable Bio-Monitoring Platforms 2007
- 22. Wireless Stand-Alone Portable Patient Monitoring and Logging System 2007
- 23. A Framework for Patient Monitoring 2006
- 24. Remote Non-Intrusive Patient Monitoring 2006
- 25. An Ultra Wearable, Wireless, Low Power ECG Monitoring System 2006
- 26. Wireless Sensor Networks for Patient Monitoring 2006
- 27. Novel Long-Term Implantable Blood Pressure Monitoring System with Reduced Baseline Drift 2006
- 28. An Embedded Control System for Intelligent Wheelchair 2005
- 29. Home Care and Health maintenance Systems 2005
- 30. Integrated Environment for Assisted Movement of Visually Impaired 2005



- 31. Integrated Motion Control of a Wheelchair in the Longitudinal, Lateral and Pitch Directions 2005
- 32. Alternative Energy storage system for Hybrid Electric Vehicles
- 33. A Wireless based Sensor for Patient Monitoring System with Remote Diagnostic
- 34. AMON: A Wearable Multiparameter Medical Monitoring and Alert System
- 35. Patient Monitoring using Personal Area Networks of Wireless Intelligent Sensors





1. A Low-Cost Solution for an Integrated Multisensor Lane Departure Warning System – 2009

2. A Smart Car Control Model for Brake Comfort Based on Car Following - 2009

3. Design and Implementation of Real Time Vehicle Tracking System – 2009

4. Qualitative Vision-Based Path Following – 2009

5. Development of a Tilt Measurement Unit using Microelectromechanical System Accelerometer - 2009

6. Detecting Driver Drowsiness using Computer Vision Techniques – 2008

7. Design of a Semi-Autonomous Parking Assist System – 2008

8. Detection of Hazardous Driving Behavior using Fuzzy Logic – 2008

9. Detection and Recognition of End-of-Speed-Limit and Supplementary Signs for Improved European Speed Limit Support – 2008

- 10. Distributed Real-Time Railway Simulator 2008
- 11. Driving Guidance System Based on Wireless Sensor Network 2008
- 12. Shortest Path Finding using GPS based Navigation System in Critical Situation 2008



- 13. Transport Security using Mobile Technology 2008
- Development of pedestrian-to-vehicle communication system prototype for pedestrian safety using both wide-area and direct communication – 2008
- 15. Autonomous Driving in a Multi-Level Parking Structure 2008
- 16. Centralized Monitoring System for Call Taxies (ARM based) 2008
- 17. A safety critical network for distributed smart traffic signals 2008
- 18. Efficient Cost-Based Tracking of Scheduled Vehicle Journeys 2008
- 19. Implementation Of a CAN-Based Multi Controller Digital Driving System for a Vehicle 2008
- 20. Integration of Terrestrial Laser Scanner for Ground Navigation in GPS-Challenged Environments – 2008
- 21. Parking Guidance System Based on Wireless Sensor Network 2008
- 22. Adaptive Car Safety System 2007
- 23. A Sensor for urban Driving Assistance Systems based on Dense Stereovision – 2007
- 24. The Design of Vehicle emergent calling system based on GPRS 2007
- 25. Robust on-Vehicle Real-Time Visual Detection of American and European Speed Limit Signs, with a Modular Traffic Signs Recognition System - 2007
- 26. Challenge: Peers on Wheels A Road to New Traffic Information System – 2007
- 27. The Vitals Signs Data Monitoring via GPS Navigation System 2007
- 28. Predicting Parking Lot Occupancy in Vehicular Ad Hoc Networks 2007
- 29. IntelliCarTS: Intelligent Cars Transportation System 2006



- 30. Real Time Fleet Monitoring and Security System using GSM Network 2006
- 31. Fuzzy Logic Controller for Two-Mode Parallel Hybrid Electric Vehicle 2006
- 32. Digital Radar for Collision Avoidance and Automatic Cruise Control in Transportation – 2006
- 33. System Architecture of a Wireless Body Area Sensor Network for Ubiquitous Health Monitoring 2006
- 34. Car-to-Car Communication 2006
- 35. Applying Unmanned Ground Vehicle Technologies to Unmanned Surface Vehicles 2005
- 36. Vehicle Routing and Road Traffic Simulation: A Smart Navigation System 2005
- 37. Wireless Control of Vehicle Mirror System using Head Movement and PIC Microcontroller- 2005
- 38. Looking-In and Looking-Out of a Vehicle: selected Investigations in Computer Vision based Enhanced Vehicle Safety 2005
- **39. A Smarter Computer Controlled Model Car**
- 40. A Vehicle-to-Vehicle communication Protocol for Cooperative Collision Warning
- 41. A Vision based Vehicle Behavior Monitoring and Warning System
- 42. An Adaptive Fuzzy Control System for Common Rail Direct Injection
- 43. An In-Vehicle Vision System for Dangerous Situation Detection
- 44. Vision based Navigation for an Unmanned Aerial Vehicle



SOLAR PROJECTS

1. An Efficient Solar Energy Harvester for Wireless Sensor Nodes – 2008

2. Maximal Power Point Tracking under Speed-Mode Control for Wind Energy Generation System with Doubly Fed Introduction Generator 2006

- 3. A Solar-Powered Wireless Data Acquisition Network
- 4. SOLERO: Solar Powered Exploration Rover

VOICE (HM 2007 IC) PROJECTS

1. Embedded Vehicle Control System Based on Voice Processing Technologies - 2008

2. Relational Interface for a Voice Controlled Wheelchair- 2005

CANPROECIS

1. CAN Bus Application in Automotive Network Control – 2010

2. Design of Automatic Meteorological Data Acquisition System based on ARM and CAN Bus – 2010

3. Design of the Measurement Node of the Grain Quantity Monitoring System based on the CAN Bus – 2010

4. Implementation of Interface between Vehicle Bus Network and On Vehicle Information System – 2010





1. Al based Design of a Fuzzy Logic Scheme for Speed Control of Induction Motors using SVPWM Technique – 2009

2. Power Quality Monitoring Controlled Through Low-Cost Modules – 2009

3. CAN- Based Synchronized Motion Control for Induction Motors – 2009

4. A Bridgeless PFC Boost Rectifier with Optimized Magnetic Utilization – 2009

5. A Compensation Technique for Smooth Transitions in a Non Inverting Buck–Boost Converter – 2009

6. A Fuzzy Logic based Supervisory Hierarchical Control Scheme for Real Time Pressure Control – 2009

7. Z-Source Inverter for Power Conditioning and Utility Interface of Renewable Energy Sources – 2009

8. A New PWM Strategy to Reduce the Inverter Input Current Ripples – 2009

9. A Novel Low-Loss Modulation Strategy For High-Power Bi-Directional Buck - Boost Converters – 2009

- 10. A Novel Technique of Flow Measurement for a Conducting Liquid 2009
- 11. A Practical Switching Loss Model for Buck Voltage Regulators 2009
- 12. A Review of Non-Isolated High Step-Up DC/DC Converters in Renewable Energy Applications – 2009

EMBEDDED SYSTEM PROJECTS IEEE 2010-11, 2009, 2008, etc.,

- 13. A Study of New Techniques of Controlled PWM Inverters 2009
- 14. An Interleaved Boost Converter with Zero-Voltage Transition 2009
- 15. An Efficient Active LC Snubber for Forward Converters 2009
- 16. An introduction to I2C and SPI protocols 2009
- 17. Zero-Voltage Transition Current-Fed Full-Bridge PWM Converter-2009
- 18. Capacitance and Inductance Sensor Circuits for Detecting the Lengths of Open- and Short-Circuited Wires 2009
- 19. Capacitor Ripple Current in an Interleaved PFC Converter 2009
- 20. Comprehensive Approach to Modeling and Simulation of Photovoltaic Arrays 2009
- 21. Current Self-Balance Mechanism in Multiphase Buck Converter 2009
- 22. Control and Protection of Power Electronics Interfaced Distributed Generation Systems in a Customer-Driven Micro Grid – 2009
- 23. Closed-Loop Modeling in Future Automation System Engineering And Validation 2009
- 24. Design and Control for a Charge-Regulated Fly Back Switch-Mode Rectifier 2009
- 25. Digital Control of Resonant Converters: Enhancing Frequency Resolution by Dithering 2009
- 26. Very-High-Frequency Resonant Boost Converters 2009
- 27. Direct Yaw Moment Control of an In-Wheel-Motored Electric Vehicle based on Body Slip Angle Fuzzy Observer 2009
- 28. Dual-Current Pump Module for Transient Improvement of Step-Down Dc-Dc Converters 2009
- 29. Dynamics of Multilevel Inverter based Series Compensator for Transmission Lines – 2009



- 30. Extending the Modeling Framework for Wind Generation Systems: RIS-Based Paradigm for Performance Under High Turbulence Inflow - 2009
- 31. Energy Efficient Control of Three-Phase Induction Motor A Review 2009
- 32. Embedded Web Server for Wireless Sensor Networks 2009
- 33. Family Of Soft-Switching Pwm Converters with Current Sharing In Switches 2009
- 34. Fuzzy Multi-State Allocation of the Diesel Engine Fuel Supply System 2009
- 35. Global and Local Chassis Control based on Load Sensing 2009
- Improved Z-Source Inverter With Reduced Z-Source Capacitor Voltage Stress and Soft-Start Capability – 2009
- 36. Light-Load Efficiency Improvement for Buck Voltage Regulators 2009
- 37. Lossless Inductor Current Sensing Method with Improved Frequency Response – 2009
- 38. Novel Nine-Switch PWM Rectifier-Inverter Topology for Three-Phase UPS Applications 2009
- 39. On-Body Inertial Sensing and Signal Processing for Clinical Assessment of Tremor - 2009
- 40. Bridge Converter for Low-Output-Voltage High-Output-Current Applications-2009
- 41. Passive and Self-Powered Autonomous Sensors for Remote Measurements – 2009
- 42. Research on Measuring Equipment of Single-phase Electricity-Stealing with Long-distance Monitoring Function 2009



- 43. Research on Zigbee Wireless Sensors Network based on ModBus Protocol – 2009
- 44. Resonant Contact Less Energy Transfer with Improved Efficiency 2009
- 45. Loop Daisy Chaining Application Method 2009
- 46. Reversing Radar System based on CAN Bus 2009
- 47. Robust Control of DC Motor using Fuzzy Sliding Mode Control with PID Compensator 2009
- 48. Semi-Digital Interleaved PFC Control with Optimized Light Load Efficiency – 2009
- 49. Single-Loop Current Sensor Less Control for Single-Phase Boost-Type SMR 2009
- 50. Single-Phase Multilevel Pwm Inverter Topologies Using Coupled Inductors 2009
- 51. Single-Stage Soft-Switching Conerter with Boost Type of Active Clamp for Wide Input Voltage Ranges – 2009
- 52. Space Vector Pulse Width Modulation based Speed Control of Induction Motor using Fuzzy PI Controller – 2009
- 53. Speed-Sensorless, Adjustable-Speed Induction Motor Drive based on Dc Link Measurement 2009
- 54. A Fuzzy Logic Controlled Sliding Mode Control (SMC) of Inverter in Shunt Active Power Filter for Power Quality Improvement – 2008
- 55. A CAN based Distributed Control System for Autonomous All-Terrain vehicle (ATV) 2008
- 56. A Novel Automatic Utility Data Collection System using IEEE 802.15.4 Compliant Wireless Mesh Networks - 2008



- 57. A Novel Zero Voltage Transition Synchronous Buck Converter for Portable Application – 2008
- 58. Adaptive Rate Control Low Bit-Rate Video Transmission Over Wireless Zigbee Networks 2008
- 59. Defect Prevention and Detection in Software for Automated Test Equipment 2008
- 60. Design and Implementation of PLC-based Monitoring Control System for Three-Phase Induction Motors Fed by PWM Inverter 2008
- 61. Design of an Intelligent Bi-Directional DC-DC Converter with Half Bridge Topology – 2008
- 62. Direct Torque Neuro Fuzzy Speed Control of an Induction Machine Drive based on a New Variable Gain PI Controller – 2008
- 63. Embedded Controlled Z Source Inverter Fed Induction Motor Drive 2008
- 64. Estimation of travel time using fuzzy clustering method 2008
- 65. Improving Speed Control of Induction Motors through Fuzzy-SMC-PI Control – 2008
- 66. Instrumentation notes Distributed measurement systems-A web system approach 2008
- 67. Multi-Input Fuzzy Logic Controller for Brushless DC Motor Drives 2008
- 68. Modeling of Indoor power line for Substation monitoring using Broadband Power line Communications – 2008
- 69. Microcontroller based Standalone PV system for Wireless Sensor Node - 2008



- 70. Operational Analysis and Comparative Evaluation of Embedded Z-Source Inverters – 2008
- 71. Performance of an Industrial Data Communication Protocol on Ethernet Network – 2008
- 72. Smart Wireless Temperature Data Logger Using IEEE 802.15.4/ZigBee Protocol - 2008
- 73. Soft Switched AC-Link AC/AC and AC/DC Buck-Boost Converter 2008
- 74. Software/hardware co-design of a vehicle trajectory monitoring system 2008
- 75. Performance Evaluation of Bridgeless PFC Boost Rectifiers 2007
- 76. Network Characteristics of Urban environments for Wireless BAN 2007
- 77. Multibus Integration Design in Conveyor Control System 2007
- 78. Fuzzy Logic Control for a Speed Control of Induction Motor using Space Vector Pulse Width Modulation – 2007
- 79. Fuzzy Logic Control of Induction Motor with Input Output Feedback Linearization – 2007
- 80. Improving the Power Density of the ZVS-SVM Controlled Three-Phase Boost PFC Converter – 2007
- 81. Replacing Cryptography with Ultra Wideband (UWB) Modulation in Secure RFID 2007
- 82. A New Parameter for UWB Indoor Channel profile Identification 2007
- 83. A Novel Soft-Switching Single-Phase AC-DC-AC Converter using New ZVS-PWM Strategy 2007
- 84. A Practical Approach to Wireless GPRS On-Line Power Quality Monitoring System – 2007



- 85. Fault Detection in Internal Combustion Engines using Fuzzy Logic 2007
- 86. A ZigBee-Based Power Monitoring System with Direct Load Control Capabilities 2007
- 87. Accuracy, Fast-Response, Cost-Efficient Solar Cell Regulator Suitable fro Low-Power Applications
- 88. Adaptive Neuro-Fuzzy Controller of Switched Reluctance Motor 2007
- 89. Utilizing RFID Signaling Scheme for Localization of stationary Objects and Speed Estimation of Mobile Objects 2007
- 90. Vibration Suppression using Single Neuron based PI Fuzzy Controller and Fractional Order Disturbance Observer – 2007
- 91. An Integrated Inverter for a Single-Phase Single-Stage Grid-Connected PV System based on Z-Source 2007
- 92. Concurrent Relay-PID Control for Motor Position Servo Systems 2007
- 93. The Dynamic Control of a Switched Reluctance Drive using Fuzzy Logic
 2006
- 94. A Review of Multilevel Power Converters 2006
- 95. BLDC Motor Controlled using Resonant Pole Inverter with Variable Pulse Width Method – 2006
- 96. Applying Modified One-Comparator Counter based PWM Control Strategy to Flyback Converter 2006
- 97. Direct ZVS Start-Up of a Current-Fed Resonant Inverter 2006
- 98. High-Power-Factor Soft-Switched Boost Converter 2006
- 99. Induction Motor Speed Control using Fuzzy Logic Controller 2006

EMBEDDED SYSTEM PROJECTS IEEE 2010-11, 2009, 2008, etc.,

- 100. Power-Efficient Pulse Width Modulation DC/DC Converters with Zero Voltage Switching Control 2006
- 101. An Alternative Configuration for Digitally Controlled Parallel Connected DC-DC Power Converters – 2005
- 102. Fuel Cell and Supercapacitors for Automotive Hybrid Electrical System 2005
- 103. Fuzzy Logic Control of Vehicle Suspensions with Dry Friction Nonlinearity 2005
- 104. Mobility and Power Budget for a Solar-Powered Polar Rover 2005
- 105. Performance Analysis of a Fuzzy Logic based Rotor Resistance Estimator of an Indirect Vector Controlled Induction Motor Drive – 2005
- 106. Sensorless PM Motor with Mullti Degree of Freedom Fuzzy control 2005
- 107. Using Fuzzy Controller in Induction Motor Speed Control with Constant Flux 2005
- 108. A Hybrid Controller Design and Implementation for Switched Reluctance Motor Drives 2005
- 109. A Fuzzy Sliding Mode Controller for a Field-Oriented Induction Motor Drive – 2005
- 110. A Novel Dc-DC Full-Bridge Converter using Energy-Recovery Circuit with Regenerative Transformer 2005
- 111. Development of Fuzzy Sliding Mode Controller for Decoupled Induction Motor Drive
- 112. Digital PWM Controller and Current estimator for a Low-Power Switching Converter
- **113.** Feeder Automation within the Scope of Substation Automation
- 114. Fuzzy Adaptive Control of an Induction motor Drive

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- 115. Fuzzy Modelling: and Control of Marine Diesel Engine Process
- 116. High Efficiency Flyback Converter using Synchronous Rectification
- 117. High Robustness and Reliability of Fuzzy Logic based Position Estimation for Sensorless Switched Reluctance Motor Drives
- 118. Oil Well Diagnosis by Sensing Terminal Characteristics of the Induction Motor
- 119. Optically-Powered Wireless Transmitter for High-Temperature MEMS Sensing and Communications
- 120. Optimal control of Three-Phase PWM Inverter for UPS Systems
- 121. Performance Analysis of an Active Energy Induction Meter using an Innovative Approach
- 122. Power Factor Improvement of Single Phase AC Voltage Controller Employing Extinction Angle Control Technique
- 123. Proposal of Human-Friendly Motion Control
- 124. Real-Time DC Motor Position Control by Fuzzy Logic and PID Controllers using Labview
- 125. Remote Control of an Ultrasonic Motor by using a GSM Mobile Phone
- 126. Remote Monitoring System for Transformer Substations
- 127. Robust Control of a Speed Sensorless Permanent Magnet Synchronous Motor Drive
- 128. Robust Speed Control of an Indirect Field-Oriented Induction Machine Drive using Fuzzy Logic Control
- 129. Scalar Speed Control of a DQ Induction Motor Model using Fuzzy logic Controller

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- 130. Super-Twisting Sliding Mode Control for Unified Power Flow Controller In Power Systems - IEEE
- 131. The Adaptive Space Vector PWM for Four Switch Three Phase Inverter Fed Induction Motor with DC – Link Voltage Imbalance - IEEE
- 132. A Comparison of Voltage-Mode soft-Switching methods for PWM Converters
- 133. A Fault-Tolerant Control Architecture for Induction Motor Drives in Automotive Applications
- 134. A New Approach to ANN-Based Real Time Voltage Stability Monitoring and Reactive Power Management – IEEE
- 135. A New Soft-Switched Contactless Battery Charger with Robust Local Controllers
- 136. A New Visualization Concept for Navigation Systems
- 137. A Novel Resonant Transition Push-Pull DC-Dc Converter
- 138. A Real Time Precrash Vehicle Detection System
- 139. A Simple Control Scheme for Single-Phase Shunt Active Power with Fuzzy Logic based DC Bus Voltage Controller –
- 140. A Three-Level DC-Dc Converter with Wide-Input Voltage Operations for Ship-Electric-Power-Distribution Systems
- 141. A Three-Level Single-Phase single-Stage Soft-Switched AC-DC Converter

142. Comparison of Traditional Inverters and Z-Source Inverter for Fuel Cell Vellin

143.

any Domain / any Application can be Implemented Do you have any Innovative / Challenging Projects or Concepts needs to be Developed, We are here to do





GSM& GPS FROECTS

Design of a Water Environment Monitoring System Based on Wireless Sensor Network Gateway Based on ZigBee and GPRS - 2009

Design & Development of a GSM Based Vehicle Theft Control System - 2009

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Body Temperature and Electrocardiogram Monitoring Using an SMSbased Telemedicine System - 2009

Travel time prediction under heterogeneous traffic conditions using global positioning system data from buses - 2009

Cost Effective GPS-GPRS based Object Tracking System - 2009

Mobile Messaging Services-Based Personal Electrocardiogram Monitoring System - 2009

Design of Water Environment Monitoring System based on Wireless Sensor & GSM - 2009

IMM-Based Lane-Change Prediction in Highways with Low-Cost GPS/INS - 2009

An On-line Monitoring System of Temperature of Conductors and Fittings Based on GSM SMS and Zigbee - 2008

GPS-based Vehicle Tracking System-on-Chip - 2008

A Distributed Measurement System to Estimate Plant Water Content in Agricultural Fields based on Wireless Sensor Networks - 2008

GSM / GPRS based Wireless Motion Detection System using PIR Sensor - 2008



Remote Data Capture, Acquisition and Sending SMS to Remote Mobile - 2008

GSM based Secured ATM Banking - 2008

- Remote Sensing & Control of an Irrigation System using A distributed Wireless Sensor Network - 2008
- Patient Monitoring using GSM & Zigbee for Hospitals & Old age Homes 2008
- A wireless network based on the combination of Zigbee and GPRS 2008
- A GIS-based Dynamic Shortest Path Determination in Emergency Vehicles 2008
- Micro-Controller based Remote Monitoring using Mobile through Spoken Commands - 2008
- A Low Cost GSM/GPRS based Wireless Home Security System 2008
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Capacitance and Inductance Sensor Circuits for Detecting the Lengths of Open- and Short-Circuited Wires - 2009

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An Internet-Based Interactive Embedded Data-Acquisition System for Real-Time Applications - 2009

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Application of Zigbee for Pollution Monitoring Caused by Automobile Exhaust Gases - 2009

A Zigbee wireless sensor network compliant with the IEEE1451 standard - 2009

Low-cost, smart temperature sensors systems based on Universal Frequency-to-Digital Converter - 2009

Wireless sensor networks for industrial processes - 2009

Design of a Water Environment Monitoring System Based on Wireless Sensor - 2009

Multisensor data fusion methods for petroleum engineering applications - 2009

Multisensor Strategies to Assist Blind People: A Clear-Path Indicator

Performance of a Protected Wireless Sensor Network in a Fire. Analysis of Fire Spread and Data Transmission - 2009



- Passive and Self-Powered Autonomous Sensors for Remote Measurements 2009
- A Novel Vehicle Safety Model Vehicle speed Controller under Driver Fatigue 2009
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- Instrumentation notes Distributed measurement systems-A web system approach 2008
- A Scalable and Efficient Approach for Obtaining Measurements in CAN-Based Control Systems - 2008
- The measurement of oxygen saturation in arterial and venous blood 2008
- **USB Sensor Network for Industrial Applications 2008**
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- An Intelligent Mobile Robot Navigation Technique Using RFID Technology 2008
- Networked sensor monitoring using the universal IEEE 1451 Standard 2008 NECT , 109, 2nd Floor, Bombay Flats, Nungambakkam High Road Nungambakkam, Chennai–34. Near Ganpat Hotel, Above IOB, Next to ICICI www.ncct.in, www.ieeeprojects.net, ncctchennai@gmail.com 044-28235816, 98411 93224, 93801 02891

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- Development of Tilt and Vibration Measurement and Detection System using MEMS Accelerometer as a Sensor - 2008
- Design of a Semi-Autonomous Parking Assist System 2008
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- Wireless Reprogramming of Vehicle Electronic Control Units 2008
- Architecture Model of Real-time Monitoring Service Based on Wireless Sensor Networks - 2008
- Wireless Sludge Level Monitoring based on Bluetooth Sensing Nodes 2008
- Wireless Sensor Networks for Resources Tracking at Building Construction Sites - 2008
- Smart Configurable Wireless Sensors and Actuators for Industrial Monitoring and Control - 2008



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1. Design of a Water Environment Monitoring System Based on Wireless Sensor Network Gateway Based on ZigBee and GPRS - 2009

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3. Smart Parking System using Image Processing Techniques in Wireless Sensor Networks - 2009

4. School Zone Safety System Based on Wireless Sensor Network - 2009

5. Preliminary Infrastructure Development for Greenhouse Accounting of Malaysian Rainforest Using Wireless - 2009

6. Wireless Sensor Networks in Home Care - 2009

7. Performance of a Protected Wireless Sensor Network in a Fire. Analysis of Fire Spread and Data Transmission - 2009

8. Parking Guidance System Utilizing Wireless Sensor Network and Ultrasonic Sensor - 2009

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- 30. Performance of an Industrial Data Communication Protocol on Ethernet Network - 2008
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- 33. A Novel Automatic Utility Data Collection System using IEEE 802.15.4 Compliant Wireless Mesh Networks - 2008
- 34. Wheelchair Type Biomedical System with Event-Recorder Function 2008
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- 45. An Implementation of an Underground Wireless Sensor Network using Zigbee 2008
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- 48. Residential Security Alarm and Control System Based On Single Chip Computer - 2008
- 49. Architecture model of Real time monitoring Service based Wireless Sensor Network - 2008
- 50. Wireless Body Area Network in a Ubiquitous Healthcare System for Physiological Signal Monitoring and Health Consulting - 2008





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- 75. A multi-purpose toll collection plaza model



- 76. A New Principle for Climbing Wheeled Robots: Serpentine Climbing with the Open WHEEL Platform
- 77. A traffic simulation model for the evaluation of toll station systems -Intelligent Transportation Systems
- 78. A wireless ECG system for continuous event recording and communication to a clinical alarm station Engineering in Medicine and Biology
- 79. Autonomous parking carrier for intelligent vehicle Intelligent Vehicles
- 80. Electronic toll collection based on vehicle-positioning system techniques Networking, Sensing and Control
- 81. Energy saving with pump's AC adjustable speed drives
- 82. Expert System of Peritoneal Dialysis Scheme Design and Realization Based on Object-Oriented Technology
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- 84. Proposal for a world wide home security system using PC-cameras -The e-Vigilante Network Project
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- 86. The application of modern GIS technology in the development of railway management systems
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- 89. Automated Vehicle Control System
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- 91. Vision based Human Tracking and Activity Recognition



- 92. Using Personal electronic Device for Authentication based Service Access
- 93. Two Dimensional Magnetic and Thermal Analysis of High Speed Switched Reluctance Motor Using Soft Magnetic Composite Material -IEEE
- 94. Ubiquitous Mobile Access to Real-Time Patient Monitoring Data
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- 97. Wireless Sensor Networks and applications: A Survey
- 98. Wireless Ad Hoc Discovery of Parking Meters
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- 103. Development of a Novel Instantaneous Speed Observer and its Application to the Power-Assisted Wheelchair Control
- **104.** Distributed Control Applications within Sensor Networks
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- 110. Indoor Positioning and Navigation using WLAN Technology
- 111. Model Reference Linear Adaptive Control of DC Motor Using Fuzzy Controller – IEEE
- 112. Integrated Modeling and Analysis of Computer based Embedded Control System
- 113. Modeling of a Stair-Climbing Wheelchair mechanism with High Single Step Capability
- 114. Modelling Pedestrains using Artificial Neural Networks
- 115. Models for Bearing damage Detection in Induction Motors using Stator Current Monitoring
- 116. MyBus: Helping Bus Riders Make Informed Decisions
- 117. Neural Network Control Approach for an Industrial Furnace
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- 122. Self-Trained Automated Parking System
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- 124. SIAPAS: A Case Study on the Use of a GPS based Parking System
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