

JITEC TECHNOLOGIES

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PROJECT TITLES 2017-2018

PROJECT CODE	PROJECT TITLES
	EMBEDDED SYSTEMS
ABTECE001	Home automation and personalization through individual location determination
ABTECE002	Optical self-excitation and detection for inertial MEMS Sensors
ABTECE003	Monolithic Multi-Sensor Design With Resonator-Based MEMS Structures
ABTECE004	Ultrasonic Radar System (URAS): Arduino and Virtual Reality for a light-free mapping of indoor environments
ABTECE005	Comparison of electric vehicles with single drive and four-wheel drive system concerning regenerative braking
ABTECE006	Towards Real-Time Object Detection on Embedded Systems
ABTECE007	Embedded Home Surveillance System
ABTECE008	Modeling and Simulation of a Moving Robotic Arm Mounted on Wheelchair
ABTECE009	Face Recognition System for Smartphone based on LBP
ABTECE0010	On-line impedance monitoring of transformer based on inductive coupling approach
ABTECE0011	Embedded Home Surveillance System
ABTECE0012	You Can Clone but You Can't Hide: A Survey of Clone Prevention and Detection for RFID
ABTECE0013	IoT Localization for Bistatic Passive UHF RFID Systems with 3D Radiation Pattern
ABTECE0014	Defense against Impersonating Attackers: An Efficient RFID Mutual Authentication Protocol Based on Standard
ABTECE0015	Smartphone Application to Evaluate the individual possibilities for the Application of Electric Vehicles
ABTECE0016	Face Recognition System for Smartphone based on LBP
ABTECE0017	Motion Analysis in Vocalized Surprise Expressions and Motion Generation in Android Robots
ABTECE0018	Lighting Control and Monitoring for Energy Efficiency: A Case Study

8	Focused on the Interoperability of Building Management Systems
ABTECE001 9	Security Implications of Third-Party Accelerators
ABTECE002 0	Statistical Modeling of PMA Detector for Ship Detection in High-Resolution Dual-Polarization SAR Images
ABTECE002 1	Designing Cybersecurity into Defense Systems: An Information Economics Approach
ABTECE002 2	Core identification and attack strategies against regenerative complex networks
ABTECE002 3	Road Slope Aided Vehicle Position Estimation System Based on Sensor Fusion of GPS and Automotive Onboard Sensor
ABTECE002 4	Profiling Aquatic Diffusion Process Using Robotic Sensor Networks
ABTECE002 5	Biomimetic Design for Unmanned Aerial Vehicle Safe Landing in Hazardous Terrain
ABTECE002 6	Design of Driver-Assist Systems under Probabilistic Safety Specifications Near Stop Signs
ABTECE002 7	Emergency Traffic-Light Control System Design for Intersections Subject to Accidents
ABTECE028	Standalone Wearable Driver Drowsiness Detection System in a Smartwatch
ABTECE029	A Location-Based Attendance Confirming System
ABTECE030	Short term re-identification of Automatic Teller Machine (ATM) users via face and body appearance features

COMMUNICATION SYSTEMS	
ABTECE031	A smart meter design and implementation using ZigBee based Wireless Sensor Network in Smart Grid
ABTECE032	Evolving Machine Intelligence Toward Tomorrow's Intelligent Network Traffic Control Systems
ABTECE033	Signal Processing in Cyber-Physical MEMS Sensors: Inertial Measurement and Navigation Systems
ABTECE034	Based on MEMS sensors man-machine interface for mechatronic objects control
ABTECE035	Evaluating Secrecy Outage of Physical Layer Security in Large-Scale MIMO Wireless Communications for Cyber-Physical System
ABTECE036	Congestion Detection and Propagation in Urban Areas Using Histogram Models
ABTECE037	Industrial Internet: A Survey on the Enabling Technologies, Applications, and Challenges
ABTECE038	Current Challenges for Visible Light Communications Usage in Vehicle Applications: A Survey An SDR Based Channel Sounding Technique for Embedded Systems
ABTECE039	Evolving Machine Intelligence Toward Tomorrow's Intelligent Network Traffic Control Systems
ABTECE040	UltrasonicRA System (URAS): Arduino Virtual Reality for a light-free mapping of indoor environments
ABTECE041	Embedded System for Prosthetic Control Using Implanted Neuromuscular Interfaces Accessed Via an Osseointegrated Implan
ABTECE042	Optical self-excitation and detection for inertial MEMS Sensor

ABTECE0 43	Monolithic Multi-Sensor Design With Resonator-Based MEMS Structures
ABTECE0 44	Toward a Forensic Analysis of Voting Systems
ABTECE0 45	Automatic Toll E-Ticketing System for Transportation Systems
ABTECE0 46	The puzzle of police body cams
ABTECE0 47	Automated Crack Detection on Concrete Bridges
ABTECE0 48	Quick Find: Fast and contact-free object detection using a depth sensor
ABTECE0 49	An Indoor Location-Aware System for an IoT-Based Smart Museum
ABTECE0 50	Test bed for a LiFi system integrated in streetlights
ABTECE0 51	A task-oriented service personalization scheme for smart environments using reinforcement learning
ABTECE0 52	Irrigation Impacts on Scaling Properties of Soil Moisture and the Calibration of a Multifractal Downscaling Model
ABTECE0 53	Intelligent hands free speech based SMS system on Android
ABTECE0 54	Tracing Emergent Structure in Self-Organized Citizen Journalism
ABTECE0 55	Electromagnetic compatibility and lightning current impacts in the railway equipment buildings
ABTECE0 56	Automatic Recognition of Long Period Events From Volcano Tectonic Earthquakes at Cotopaxi Volcano
ABTECE0 57	Red Eye: Preventing Collisions Caused by Red-Light Running Scooters With Smartphones
ABTECE0 58	Looking into HMD: A method of latency measurement for head mounted display
ABTECE0 59	A mobile phone application to improve the quality of college education
ABTECE0 60	A Mobile ZigBee Module in a Traffic Control System
ABTECE0 61	Indoor Positioning for Multi-photodiode Device Using Visible-Light Communications

ABTECE0 62	Road Traffic Congestion Management Using VANET
ABTECE0 63	Green Banking: A Proposed Model for Green Housing Loan
ABTECE0 64	Estimating control delays at signalized intersections using low-resolution transit bus-based global positioning system data
	INTELLIGENT TRANSPORTATION SYSTEM
ABTECE0 65	DASITS: Driver Assistance System in Intelligent Transport System (School Children Transportation safety)
ABTECE0 66	An Active Safety System for Low-Speed Bus Braking Assistance
ABTECE0 67	A Blind-Zone Detection Method a Rear-Mounted Fisheye Camera Using With Combination of Vehicle Detection Methods
ABTECE0 68	Using Viewing Statistics to Control Energy and Traffic Overhead in Mobile Video Streaming
ABTECE0 69	Vision for Looking at Traffic Lights: Issues, Survey, and Perspectives
ABTECE0 70	Demand Forecast Using Data Analytics for the Pre allocation of Ambulances
ABTECE0 71	Design of Driver-Assist Systems Under Probabilistic Safety Specifications Near Stop Sign
ABTECE0 72	Design and implementation of an eye blinking detector system for automobile accident prevention
	AUTOMATION
ABTECE0 73	An SDR Based Channel Sounding Technique for Embedded Systems
ABTECE0 74	Towards Real-Time Object Detection on Embedded Systems
ABTECE0 75	Embedded Control System for Smart Walking Assistance Device
ABTECE0 76	Comparison of electric vehicles with single drive and four-wheel drive system concerning regenerative braking
ABTECE0	Secure and Efficient Protocol for Route Optimization in PMIPv6-based Smart Home

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ABTECE0 78	Home automation and personalization through individual location determination
ABTECE0 79	Embedded System for Prosthetic Control Using Implanted Neuromuscular Interfaces Accessed Via an Osseointegrated Implant
ABTECE0 80	Direct and indirect sensing two-axis solar tracking system
ABTECE0 81	Access Control Schemes for Implantable Medical Devices: A Survey
ABTECE0 82	Smartphone Application to Evaluate the individual
ABTECE0 83	Quality of Service Management for Home Networks Using Online Service Response Prediction
ABTECE0 84	possibilities for the Application of Electric Vehicles
ABTECE0 85	Embedded Control System for Smart Walking Assistance Device
ABTECE0 86	Direct and indirect sensing two-axis solar tracking system
ABTECE0 87	sufficient number of optimal tilt angle adjustment to maximize residential solar panels yield
ABTECE0 88	Hazards in the installation and maintenance of solar panels
ABTECE0 89	Power System Reliability Analysis with Intrusion Tolerance in SCADA Systems
ABTECE0 90	A Multi-Mode Dead Reckoning System for Pedestrian Tracking Using Smartphones
ABTECE0 91	A Web-Based Approach for Classifying Environmental Pollutants Using Portable E-nose Devices
ABTECE0 92	Development and Validation of an Automated Steering Control System for Bus Revenue Service
ABTECE0 93	Industrial Wireless IP-Based Cyber –Physical Systems

ABTECE094	Microwave Sensing of Quality Attributes of Agricultural and Food Products
ABTECE095	Optimizing Time of Arrival localization solutions for challenging industrial environments
ABTECE096	AUTO-FIR - Automobile's first information record
ABTECE097	Vision based forest fire detection in aerial images for firefighting using UAVs
ABTECE098	Development of remote monitoring analysis and reporting system for industrial machines
ELECTRONICS	
ABTECE099	Introduction to a network forensics system for cyber incidents analysis
ABTECE100	Wireless sensor/actuator device configuration by NFC
ABTECE101	A smart helmet for air quality and hazardous event detection for the mining industry
ABTECE102	Audio multicast by Visible Light Communication for location information for the visually impaired
ABTECE103	BARRACUDA: An augmented reality display for increased motorcyclist en route hazard awareness
	Field Testing of a Cyclist Collision Avoidance System for Heavy Goods Vehicles
ABTECE104	Multi-Factors Based Road Accident Prevention System
ABTECE105	RFID-based system for school children transportation safety enhancement
ABTECE106	Automated Trace-Explosives Detection for Passenger and Baggage Screening
ABTECE107	Integrated Control of Airport and Terminal Airspace Operations
ABTECE108	An RFID based Smartphone Proximity Absence Alert System
ABTECE109	Attendance generating system using RFID and GSM
ABTECE110	Adaptive Path Isolation for Elephant and Mice Flows by Exploiting Path Diversity in Datacenter

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ABTECE1 11	IBEACON for New-borns Localization in Hospitals
ABTECE1 12	New generation ATM terminal services
	ROBOTICS
ABTECE1 13	Efficient Visual Obstacle Avoidance for Robotic Mower
ABTECE1 14	Modeling and Simulation of a Moving Robotic Arm Mounted on Wheelchair
ABTECE1 15	Robotic Assistant for Mobility-Impaired Patients
ABTECE1 16	Low-cost robotic assessment of visuomotor deficits in Alzheimer disease
ABTECE1 17	Closed-Chain Manipulation of Large Objects by Multi-Arm Robotic Systems
	Bioinspired Ciliary Force Sensor for Robotic Platforms
ABTECE1 18	Efficient Visual Obstacle Avoidance for Robotic Mower
ABTECE1 19	Managing robot kinematics based on Arduino controllers using a Unity system
ABTECE1 20	Real-Time Panoramic Image Generation and Motion De blurring by Using Dynamics- Based Robotic Vision
ABTECE1 21	Design and implementation of a semi-autonomous waste segregation robot
ABTECE1 22	Equilibrium state control for climbing robot
ABTECE1 23	Enhancing the Professional Vision of Teachers: A Physiological Study of Teaching Analytics Dashboards of Students' Repertory Grid Exercises in Business Education
ABTECE1 24	Auto Calibrated Head Orientation Controller for Robotic-Wheelchair Using MEMS Sensors and Embedded Technologies
ABTECE1 25	Loading of Hanging Trolleys on Overhead Conveyor with Industrial Robots
ABTECE1 26	Port-based modeling of human-robot collaboration towards safety-enhancing energy shaping control

ABTECE1 27	Autonomous Learning of Object Models on a Mobile Robot
	WIRELESS SENSOR NETWORK
ABTECE1 28	Student Information Report System with SMS (SIRS)
ABTECE1 29	NoC based advanced communication systems for smart city management programs
ABTECE1 30	A Survey on Gas Leakage Source Detection and Boundary Tracking with Wireless Sensor Networks
ABTECE1 31	Passenger acceptance of counter-terrorism security measures in stations
ABTECE1 32	Wi-metal: Detecting metal by using wireless networks
ABTECE1 33	Next generation public safety networks: A spectrum sharing approach
ABTECE1 34	Robust ambulance allocation using risk-based metrics
ABTECE1 35	Safety Marginal Value as a Traffic Safety Metric for the Trailing Vehicle
ABTECE1 36	Energy efficient smart cooling system using WSN
ABTECE1 37	A crowd-assisted real-time public transport information service: No more endless wait
ABTECE1 38	Spectral analysis of forest fire noise for early detection using wireless sensor networks
ABTECE1 39	Modeling of flowing underground waters and leakage of syngas from Underground Coal Gasification
	Path Loss model for indoor parking environments in a wireless sensor network
ABTECE1 40	Smart cable for Radio Frequency Identification in aeronautical applications
ABTECE1 41	Remotely monitored fertility control by ion selective electrodes using novel sensor networks
ABTECE1 42	Smart traffic light control system
ABTECE1 43	SafeCam: Analyzing intersection-related driver behaviors using multi-sensor smartphones

ABTECE1 44	Passenger Journey Destination Estimation From Automated Fare Collection System Data Using Spatial Validation
ABTECE1 45	Identification of outliers in pollution concentration levels using anomaly detection
	DIGITAL IMAGE PROCESSING (with Hardware)
ABTECE1 46	Hand Posture Recognition Using a Three-Dimensional Light Field Camera
ABTECE1 47	Small fingerprint scanners used in mobile devices: the impact on biometric performance
ABTECE1 48	Object Tracking by Color and Active Contour Models Segmentation
ABTECE1 49	Yawning Detection Using Embedded Smart Cameras
ABTECE1 50	Automatic Crack Detection and Measurement Based on Image Analysis
ABTECE1 51	Objectless to assist salient object detection
ABTECE1 52	Face Recognition and Spoofing Detection System Adapted To Visually-Impaired People
ABTECE1 53	Biometric-Enabled Authentication Machines: An Open-Set Real-World Survey of Applications
ABTECE1 54	Dilation-aware enrolment for iris recognition
ABTECE1 55	Real-time NIR imaging of Palm Dorsa subcutaneous vein pattern based biometrics: An SRC based approach
ABTECE1 56	Authentic mobile-biometric signature verification system
ABTECE1 57	Activity Recognition with Smart Polymer Sensor: Floor Application to Human Footstep Recognition
ABTECE1 58	Facial Position and Expression-Based Human-Computer Interface for Persons with Tetraplegia

ABTECE1 59	IEDs on the Road to Fingerprint Authentication: Biometrics have vulnerabilities that PINs and passwords don't
INTERNET OF THINGS	
ABTECE1 60	Secure and Efficient Protocol for Route Optimization in PMIPv6-based Smart Home IoT Networks
ABTECE1 61	Home automation and personalization through individual location determination
ABTECE1 62	Agricultural crop monitoring using IOT
ABTECE1 63	Wearable sensors for analyzing personal exposure to air pollution
ABTECE1 64	Electromagnetic pollution measurement in the system rooms of a university
ABTECE1 65	Security and Privacy Preservation of Face Identification and Resolution Scheme Framework Using Fog Computing in Internet of Things
ABTECE1 66	Indoor localization framework with WiFi fingerprinting
ABTECE1 67	Accurate indoor localization and tracking using mobile phone inertial sensors, WiFi and iBeacon
ABTECE1 68	On-line impedance monitoring of transformer based on inductive coupling approach
ABTECE1 69	Machine-to-Machine Communications in Ultra-Dense Networks A Survey
ABTECE1 70	A Survey of Network Lifetime Maximization Techniques in Wireless Sensor Networks
ABTECE1 71	A Survey on Network Methodologies for Real-Time Analytics of Massive IoT Data and Open Research Issues
ABTECE1 72	Security Vulnerabilities of Internet of Things: A Case Study of the Smart Plug System
ABTECE1 73	A Privacy Preserving Communication Protocol for IoT Applications in Smart Homes
ABTECE1 74	Environmental Monitoring in Grain Granary Based on Embedded System
ABTECE1 75	sufficient number of optimal tilt angle adjustment to maximize residential solar panels yield
ABTECE1 76	Hazards in the installation and maintenance of solar panels

DIGITAL IMAGE PROCESSING	
ABTECE1 77	Visual Face Recognition Using Bag of Dense Derivative Depth Patterns
ABTECE1 78	Real-Time Traffic Light Detection with Adaptive Background Suppression Filter
ABTECE1 79	Facial video-based detection of physical fatigue for maximal muscle activity
ABTECE1 80	Exemplar-Based Recognition of Human–Object Interactions
BIO-MEDICAL	
ABTECE1 81	coexistence of ZigBee-Based WBAN and WiFi for Health Telemonitoring Systems
ABTECE1 82	Access Control Schemes for Implantable Medical Devices: A Survey
ABTECE1 83	A Wireless Health Monitoring System Using Mobile Phone Accessories
ABTECE1 84	Automating Vector Auto regression on Electronic Patient Diary Data
ABTECE1 85	Design, Implementation, and Wide Pilot Deployment of FitForAll: An Easy to use Exergaming Platform Improving Physical Fitness and Life Quality of Senior Citizens
ABTECE1 86	A Context-Aware, Interactive M-Health System for Diabetics
ABTECE1 87	Convergence Revolution Comes to Wearables: Multiple Advances are Taking Biosensor Networks to the Next Level in Health Care
ABTECE1 88	The Personal Health Technology Design Space
ABTECE1 89	Elucidating the Hemodynamic Origin of Ballisto-cardiographic Forces: Toward Improved Monitoring of Cardiovascular Health at Home
ABTECE1 90	Guest Editorial an Overview of Biomedical Robotics and Bio-Mechatronics Systems and Applications
ABTECE1 91	Monitoring Activities of Daily Living in Smart Homes: Understanding human behavior