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About Spiro

Spiro Group of Companies South India's leading Research & Development Organization. Over a decade, we are furnishing individuals in all technologies and domains by fulfilling their desires in Research & Development sector through efficient training methodologies. All our efforts are focused on students to meet industry requirements.

The global presence and reach attained by Spiro is not only substantiated by its presence, but also by the environment provided for the students. Since our environment is encapsulated with doctorates, professionals and other experts. Accordingly, we created a setting which enables student to recover from the existing learning processes and making them to be an intellect.

In our increasing globalization, Spiro moves forward to unite the desires of students and challenges of the future in R & D sector by improving the agility and enabling students to achieve sustainable growth over their rivalry. For future enhancement, industry based knowledge's are provided for students in various levels. To sum up, we are filling student necessities in all possible ways to make career brighter in their desired field.

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NETWORK SIMULATOR (NS2/NS3)

S.NO	PROJECT CODE	PROJECT TITLES	SIMULATOR	YEAR
1	ITNWN01	COCOWA: A Collaborative Contact-Based Watchdog For Detecting Selfish Nodes		2015
2	ITNWN02	Service Composition In Opportunistic Networks: A Load And Mobility Aware Solution	NS2	2015
3	ITNWN03	Modeling And Solving TCP INCAST Problem In Data Center Networks		2015
4	ITNWN04	Reputation Aggregation In Peer-To-Peer Network Using Differential Gossip Algorithm	NS3	2015
5	ITNWN05	An Efficient And Trustworthy P2p And Social Network Integrated File Sharing System	1000	2015

		MANET		
S.NO	PROJECT CODE	PROJECT TITLES	SIMULATOR	YEAR
1	ITNMN01	A Secure Addressing Scheme For Large-Scale Managed Manets		2015
2	ITNMN02	MAC-layer Selfish Misbehavior in IEEE 802.11 ad hoc networks: detection and defense	NS2	2015
3	ITNMN03	Interference-Based Topology Control Algorithm For Delay- Constrained Mobile Ad Hoc Networks		2015

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	Interference Prediction In Mobile Ad Hoc Networks With A		2015	
4	ITNMN04	General Mobility Model	NS3	2015
_	177 H 61/05	Mobile-Projected Trajectory Algorithm With Velocity-Change	7100	2015
5	ITNMN05	Detection For Predicting Residual Link Lifetime In Manet	NS3	2015

		VANET		
S.NO	PROJECT CODE	PROJECT TITLES	SIMULATOR	YEAR
1	ITNVN01	Reducing Interferences In VANETS		2015
2	ITNVN02	ROFF: Robust And Fast Forwarding In Vehicular Ad-Hoc Networks	NS2	2015
3	ITNVN03	Securing warning message dissemination in VANETS using cooperative neighbor position verification		2015
4	ITNVN04	Secure And Privacy Preserving Protocol For Cloud-Based Vehicular Dtns	NS3	2015
5	ITNVN05	Message Authentication Using Proxy Vehicles In Vehicular Ad Hoc Networks		2015

		COGNITIVE RADIO NETWORK		
S.NO	PROJECT CODE	PROJECT TITLES	SIMULATOR	YEAR
1	ITNCN01	BRACER: A Distributed broadcast protocol in multi-hop cognitive radio ad hoc networks with collision avoidance		2015
2	ITNCN02	Cognitive radio-aware transport protocol for mobile ad hoc networks	NS2	2015
3	ITNCN03	Optimal Resource Allocation In Random Access Cooperative Cognitive Radio Networks		2015
4	ITNCN04	Privacy-Preserving Collaborative Spectrum Sensing With Multiple Service Providers		2015





~	ITNICNIO 5	An Order Optimal Policy For Exploiting Idle Spectrum In NS3	2015
5	ITNCN05	Cognitive Radio Networks	2015

		NETWORK SECURITY		
S.NO	PROJECT CODE	PROJECT TITLES	SIMULATOR	YEAR
1	ITNNS01	Dynamic routing for data integrity and delay differentiated services In wireless sensor networks	NS2	2015
2	ITNNS02	Trust Management For Defending On-Off Attacks	11.52	2015
3	ITNNS03	Privacy-preserving and truthful detection of packet dropping attacks in wireless ad hoc networks		2015
4	ITNNS04	A Distributed Multi-Channel Mac Protocol For Ad Hoc Wireless Networks	NS3	2015
5	ITNNS05	Beyond Scaling Laws: On The Rate Performance Of Dense Device-To-Device Wireless Networks		2015





MATLAB

IMAGE PROCESSING

S.NO	PROJECT CODE	PROJECT TITLES	YEAR
1	ITIMP01	Remote Authentication via Biometrics: A Robust Video-Object Steganographic Mechanism Over Wireless Networks	2015
2	ITIMP02	Compressed-Domain Ship Detection on Spaceborne Optical Image Using Deep Neural Network and Extreme Learning Machine	2015
3	ITIMP03	Elaboration of Novel Image Processing Algorithm for Arcing Discharges Recognition on HV Polluted Insulator Model	2015
4	ITIMP04	Face Recognition Across Non-Uniform Motion Blur, Illumination, and Pose	2015
5	ITIMP05	A Novel Active Learning Method in Relevance Feedback for Content- Based Remote Sensing Image Retrieval	2015
6	ITIMP06	Deep Representations for Iris, Face, and Fingerprint Spoofing Detection	2015
7	ITIMP07	Fast and Adaptive Detection of Pulmonary Nodules in Thoracic CT Images Using a Hierarchical Vector Quantization Scheme	2015
8	ITIMP08	Automated Vessel Segmentation Using Infinite Perimeter Active Contour Model with Hybrid Region Information with Application to Retinal Images	2015
9	ITIMP09	Four-Class Classification of Skin Lesions With Task Decomposition Strategy	2015
10	ITIMP10	Automatic Classification of Intracardiac Tumor and Thrombi in Echocardiography Based on Sparse Representation	2015
11	ITIMP11	Adaptive Co-Segmentation of Pheochromo cytomas in CECT Images Using Localized Level Set Models	2015

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12	ITIMP12	Segmentation-Based Image Copy Move Forgery Detection Scheme	2015
10	TED (D12)	High Capacity Reversible Data Hiding in Encrypted Images by Patch-Level	2015
13	ITIMP13	Sparse Representation	
1.4	ITIN AD1 4	Unsupervised Detection of Earthquake-Triggered Roof-Holes From UAV	
14	ITIMP14	Images Using Joint Color and Shape Features	2015
1.5	ITTD 4D15	Traffic Sign Detection via Graph-Based Ranking and Segmentation	
15	ITIMP15	Algorithms	2015
1.0	ITIN AD16	Localization of license plate number using Dynamic image processing	2014
16	ITIMP16	techniques and Genetic algorithms	
17	ITIMD17	A Novel Joint Data-Hiding and Compression Scheme Based on SMVQ and	2014
17	ITIMP17	Image Inpainting	
18	ITIMP18	Tampering Detection in Compressed Digital Video Using Watermarking	2014
10	ITIN AD10	Image Quality Assessment for Fake Biometric Detection: Application to	2014
19	ITIMP19	Iris, Fingerprint and Face Recognition	
20	ITIM (DO)	Multimodal Medical Volumetric Data Fusion Using 3-D Discrete Shearlet	2014
20	ITIMP20	Transform and Global-to-Local Rule	
21	ITIMP21	Lung Nodule Classification With Multilevel Patch-Based Context Analysis	2014
22	TED (DA)	An Automatic Graph-Based Approach for Artery/Vein Classification in	2014
22	ITIMP22	Retinal Images	
22	TTD (D22	On Scanning Linear Barcodes From Out-of-Focus Blurred Images: A	
23	ITIMP23	Spatial Domain Dynamic Template Matching Approach	2014
		Remote Sensing Image Segmentation by Combining Spectral and Texture	
24	ITIMP24	Features	2014
		Object-Oriented Shadow Detection and Removal From Urban High-	
25	ITIMP25	Resolution Remote Sensing Images	2014
		Fuzzy Clustering With a Modified MRF Energy Function for Change	
26	ITIMP26	Detection in Synthetic Aperture Radar Images	2014





27 ITIMP27 Measures of Effective Video Tracking 2014

MATLAB

COMMUNICATION

S.NO	PROJECT CODE	PROJECT TITLES	YEAR
1	ITCM01	On The Sum-Rate Of The Gaussian Mimo Z Channel And The Gaussian	2015
		Mimo X Channel	
2	ITCM02	Improving Physical Layer Security For Crns Using Sinr-Based Cooperative Beamforming	2015
_		Relay-Selection Improves The Security-Reliability Trade-Off In Cognitive	
3	ITCM03	Radio Systems	2015
4	ITCM04	Effect Of Mutual Coupling On The Channel Capacity Of Mimo Systems	2015
5	ITCM05	Performance Of Reconfigurable Antennas In A Below-Decks Environment	2015
6		Generalization Of Orthogonal Frequency Division Multiplexing With	
U	ITCM06	Index Modulation	2015
7	ITCM07	Spectral Efficiency Of Ofdm Systems With Random Residual Cfo	2015
8	ITCM08	Sum Rate Maximization Of An Mimo Two-Way Relay System Using Mse	2015
		Duality	
9	ITCM09	Papr Analysis Of Class-Iii Slm Scheme Based On Variance Of Correlation	2015
	J HEIVIO	Of Alternative Ofdm Signal Sequences	2013
10	ITCM10	Outage Probability Of Energy Harvesting Relay-Aided Cooperative	2015
10	TTCIVITU	Networks Over Rayleigh Fading Channel	2013
11	ITCM11	Space Shift Keying For Los Communication At Mmwave Frequencies	2015

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		T. D. W. T. M. W. L. D. L. C. C. L.	
12	ITCM12	Linear Precoding For Mimo With Ldpc Coding And Reduced Complexity	2015
1.0	TTCD 512	Performance Evaluation Of Mimo Ofdm Systems In On-Ship Below-Deck	2014
13	ITCM13	Environments	
1.4	ITTO A LA	To Cooperate Or Not To Cooperate: An Outage Analysis Of Interference-	2014
14	ITCM14	Limited Wireless Networks.	2014
	TTCD 54.5	Power Control And Asymptotic Throughput Analysis For The Distributed	2014
15	ITCM15	Cognitive Uplink	2014
	ITCM16	Channel Model For Satellite Communication Links Above 10ghz Based On	•
16		Weibull Distribution	2014
1.7		On The Outage Performance Of	2014
17	ITCM17	Selection Amplify-And-Forward Relaying Scheme	2014
10		Dynamic Subcarrier Coordinate Interleaving For Eavesdropping Prevention	2014
18	ITCM18	In Ofdm Systems	2014
10		Analysis Of The Power Amplifier Nonlinearity On The Power Allocation	2014
18	ITCM19	In Cognitive Radio Networks	2014
20	ITCM20	On Signal Detection In The Presence Of Weakly Correlated Noise Over	2014
20		Fading Channels	2014

	DIG	ITAL SIGNAL PROCESSING	
16	ITDSP01	Fairness For Non-Orthogonal Multiple Access In 5g Systems	2015
17	ITDSP02	Sum-Rate Optimal Network Beamforming And Subcarrier Power Allocation For Multi-Carrier Synchronous Two-Way Relay Networks	2015
18	ITDSP03	Mimo-Oth Radar: Signal Model For Arbitrary Placement And Signals With Non-Point Targets	2015





19	ITDSP04	Low Cost Pre-Coder Design For Mimo Af Two-Way Relay Channel	2015
20	ITDSP05	Transceiver Design For Hybrid One-Way And Two-Way Relay Networks	2014
21	ITDSP06	Mimo Systems With Quantized Covariance Feedback	2014
22	ITDSP07	Interference Alignment With Partial Csi Feedback In Mimo Cellular Networks	2014
23	ITDSP08	Rank-Two Beamformed Secure Multicasting For Wireless Information And Power Transfer	2014

POWER ELECTRONICS

AC TO DC CONVERTERS (RECTIFIERS)

S.NO	PROJECT CODE	PROJECT TITLES	YEAR
1	ITPW01	An Integrated High-Power-Factor Converter With Zvs Transition	2015
2	ITPW02	High-Frequency-Fed Unity Power-Factor Ac–Dc Power Converter With One Switching Per Cycle	2015
3	ITPW03	High-Power-Factor Rectifier Using The Modified Sepic Converter Operating In Discontinuous Conduction Mode	2015
4	ITPW04	Improved-Power-Quality Bridgeless-Converter-Based Multiple-Output Smps	2015
5	ITPW05	Power Factor Corrected Zeta Converter Based Improved Power Quality Switched Mode Power Supply	2015
6	ITPW06	Single-Inductor Dual-Output Buck–Boost Power Factor Correction Converter	2015

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7	ITPW07	A Novel Three-Phase Buck–Boost Ac–Dc Converter	2014
DC TO DC CONVERTERS (CHOPPERS)			
0	ITPW08	A Fast-Converging MPPT Technique For Photovoltaic System Under Fast-	2015
8	11F W 06	Varying Solar Irradiation And Load Resistance	
0	ITPW09	Inductors A High Gain Input-Parallel Output-Series Dc/Dc Converter With	2015
9	111 W 09	Dual Coupled	
	ITPW10	High Gain Zero Voltage Switching Bidirectional Converter With Reduced	2015
10	11PW 10	Number Of Switches	
		Hybrid Transformer Zvs/Zcs Dc–Dc Converter With Optimized Magnetics	2015
11	ITPW11	And Improved Power Devices Utilization For Photovoltaic Module	
		Applications	
	IEDW10	Isolated Ac/Dc Offline High Power Factor Single-Switch Led Drivers	2015
12	ITPW12	Without Electrolytic Capacitors	
	ITDW12	Non-Isolated High Step-Up Dc-Dc Converters Adopting Switched-	2015
13	ITPW13	Capacitor Cell	
1.4	ITPW14	Performance Of Medium-Voltage Dc-Bus Pv System Architecture Utilizing	2015
14	111 11 11	High-Gain Dc–Dc Converter	
15	ITPW15	Soft Switching Dc-Dc Converter For Distributed Energy Sources With	2015
15	111 W 13	High Step Up Voltage Capability	
16	ITPW16	A High Voltage Gain Dc-Dc Converter Integrating Coupled-Inductor And	2014
10	111 ((10	Diode-Capacitor Techniques	
17	ITPW17	Soft-Switching Current-Fed Push-Pull Converter For 250-W Ac Module	2014
1/		Applications	
	L	OC TO AC CONVERTERS (INVERTERS)	
18	ITPW18	A New Common-Mode Transformer Less Photovoltaic Inverter	2015
19	ITPW19	A Quasi-Unipolar Spwm Full-Bridge Transformerless Pv Grid-Connected	2015
	1		





		Inverter With Constant Common-Mode Voltage.	
20		A Single-Phase Cascaded Multilevel Inverter Based On A New Basic Unit	2015
	ITPW20	With Reduced Number Of Power Switches	
21	ITPW21	An Interleaved High-Power Flyback Inverter For Photovoltaic Applications	2015
22		Hybrid Multicarrier Modulation To Reduce Leakage Current In A	2015
	ITPW22	Transformerless Cascaded Multilevel Inverter For Photovoltaic Systems	
23	ITPW23	Hybrid Switched-Inductor Converters For High Step-Up Conversion	2015
24		Optimum Structures Of Proposed New Cascaded Multilevel Inverter With	2015
	ITPW24	Reduced Number Of Components	
		Zero-Crossing Disturbance Elimination And Spectrum Analysis Of Single-	2015
25	ITPW25	Carrier Seven-Level Spwm	
26		A Step-Up Switched-Capacitormultilevel Inverter With Self Voltage	2014
	ITPW26	Balancing	
		AC TO AC (CYCLOCONVERTER)	
27	ITPW27	A Bridgeless Bhb Zvs-Pwm Ac-Ac Converter For High-Frequency	2015
		Induction Heating Applications	
		A Dimming Method For Hot Cathode Fluorescent Lamp Using A Resonant	2015
28	ITPW28	Inverter Operating At Fixed Switching Frequency	
		MOTOR APPLICATIONS	
29	ITPW29	Pfc Cuk Converter-Fed Bldc Motor Drive	2015
30	ITPW30	A Bl-Csc Converter-Fed Bldc Motor Drive With Power Factor Correction	2015
31	ITPW31	Power Factor Correction In Bridgeless-Luo Converter-Fed Bldc Motor	2015
		Drive	
32	ITPW32	Deployment Of An Adaptable Sensorless Commutation Technique On Bldc	2015
		Motor Drives Exploiting Zero Sequence Voltage	





33	ITPW33	A Unity Power Factor Bridgeless Isolated Cuk Converter-Fed Brushless Dc	
		Motor Drive	2015
	E	ELECTRICAL VEHICLE APPLICATIONS	
34	ITPW34	Performance Analysis Of Bi-Directional Dc-Dc Converters For Electric Vehicles	2015
35	ITPW35	A Nonisolated Multiinput Multioutput Dc–Dc Boost Converter For Electric Vehicle Applications	2015
		POWER SYSTEMS	
36	ITPS01	MPPT With Single Dc-Dc Converter And Inverter For Grid Connected Hybrid Wind-Driven Pmsg-Pv System	2015
37	ITPS02	A High Step-Up Dc To Dc Converter Under Alternating Phase Shift Control For Fuel Cell Power System	2015
38	ITPS03	Doubly Fed Induction Generator For Wind Energy Conversion Systems With Integrated Active Filter Capabilities	2015
39	ITPS04	A Maximum Power Tracking Technique For Grid-Connected Dfig-Based Wind Turbines	2015
40	ITPS05	Power Balance Of Cascaded H-Bridge Multilevel Converters For Large-Scale Photovoltaic Integration	2015
41	ITPS06	Current-Fed Soft-Switching Push-Pull Front-End Converter Based Bidirectional Inverter For Residential Photovoltaic Power System	2014
		POWER QUALITY IMPROVEMENT	
42	ITPS07	High-Gain Resonant Switched-Capacitor Cell-Based Dc/Dc Converter For Offshore Wind Energy Systems	2015
43	ITPS08	An Improved Iupqc Controller To Provide Additional Grid-Voltage Regulation As A Statcom	2015





44	ITPS09	Front-End Converter With Integrated Pfc And Dc–Dc Functions For A Fuel	2015
		Cell Ups With Dsp-Based Control	
45	ITPS10	An Enhanced Voltage Sag Compensation Scheme For Dvr	2015
46	ITPS11	Predictive Voltage Control Of Transformerless Dvr	2015
47	ITPS12	Integrated Photovoltaic And Dynamic Voltage Restorer System Configuration	2015
48	ITPS13	An Integrated Dynamic Voltage Restorer-Ultracapacitor Design For Improving Power Quality Of The Distribution Grid	2015
49	ITPS14	Operation And Control Of An Improved Performance Interactive Dstatcom	2015
50	ITPS15	LCL Filter Design And Performance Analysis For Grid Interconnected Systems	2014

VLSI

AREA EFFICIENT

S.NO	PROJECT CODE	PROJECT TITLES	YEAR
1	ITVL01	High-Speed and Energy-Efficient Carry Skip Adder Operating Under a Wide Range of Supply Voltage Levels	2015
2	ITVL02	An Efficient Constant Multiplier Architecture Based on Vertical-Horizontal Binary Common Sub-expression Elimination Algorithm for Reconfigurable FIR Filter Synthesis	2015
3	ITVL03	Trade-offs for Threshold Implementations Illustrated on AES	2015
4	ITVL04	A Modified Partial Product Generator for Redundant Binary Multipliers	2015
5	ITVL05	Reviewing High-Radix Signed-Digit Adders	2015
6	ITVL06	Critical-Path Analysis and Low-Complexity Implementation of the LMS Adaptive Algorithm	2014

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Logic 2015 Optimization 2015
Logic 2015 Optimization
Optimization
2013
e Study 2015
s 2015
2014
2015
econfigurable 2015
$\begin{bmatrix} 1 - 1, 2^n - 1, \\ 2015 \end{bmatrix}$
al Signal 2015
of the Add-
ectures Using 2014
1
Clock-Zone- 2015





20	ITVL20	Synthesis of Majority/Minority Logic Networks	2015
21	ITVL21	Design and simulation of Turbo encoder in quantum-dot cellular automata	2015
22	ITVL22	Design of Efficient Binary Comparators in Quantum-Dot Cellular Automata.	2014
23	ITVL23	Area-Delay Efficient Binary Adders in QCA.	2014

		DESIGN WITH TEST BENCH	
24	ITVL24	Reverse Converter Design via Parallel-Prefix Adders: Novel Components, Methodology, and Implementations	2015
25	ITVL25	ERSFQ 8-Bit Parallel Adders as a Process Benchmark	2015
26	ITVL26	$(4 + 2\log n)$ G Parallel Prefix Modulo- $(2^n - 3)$ Adder via Double Representation of Residues in $[0, 2]$	2015
		EDA TOOL (TANNER TOOL)	
27	ITVL27	Energy and Area Efficient Three-Input XOR/XNORs With Systematic Cell Design Methodology	2015
28	ITVL28	Single-Supply 3T Gain-Cell for Low-Voltage Low-Power Applications	2015
29	ITVL29	Recursive Approach to the Design of a Parallel Self-Timed Adder	2015
30	ITVL30	Low-Power Variation-Tolerant Nonvolatile Lookup Table Design	2015
31	ITVL31	Finite State Machines With Input Multiplexing: A Performance Study	2015
32	ITVL32	Analysis and Design of a Low-Voltage Low-Power Double-Tail Comparator	2014
33	ITVL33	Universal Set of CMOS Gates for the Synthesis of Multiple Valued Logic Digital Circuits	2014





		VLSI WITH MATLAB	
34	ITVL34	A Generalized Algorithm and Reconfigurable Architecture for Efficient and Scalable Orthogonal Approximation of DCT	2015
35	ITVL35	Design and Analysis of Approximate Compressors for Multiplication	2015
36	ITVL36	An Analytical Framework for Evaluating the Error Characteristics of Approximate Adders	2015
37	ITVL37	Efficient coding scheme for fault Tolerant parallel filter	2015
38	ITVL38	Input-Based Dynamic Reconfiguration of Approximate Arithmetic Units for Video Encoding	2015
39	ITVL39	Improved 8-Point Approximate DCT for Image and Video Compression Requiring Only 14 Additions	2014
40	ITVL40	High-Throughput Multi standard Transform Core Supporting MPEG /H.264/VC-1 Using CSDA	2014





EMBEDDED

MECHANISM

S.NO	PROJECT CODE	PROJECT TITLES	YEAR
1	ITEM01	Three Way Conveyers For Cool Drinks Industry	2015
2	ITEM02	The Amphibious Vehicle For Sea And Seashore Monitoring	2015
3	ITEM03	Automatic Control Of Voice Gear Mechanism	2015
4	ITEM04	Automatic Glass Cleaning RobotServent For Software Company	2015
5	ITEM05	Automatic Car Parking In Shopping Mall	2015
6	ITEM06	Automatic Alcohol Detection System In Vehicles	2015
7	ITEM07	Coconut Climbing Robot	2015
8	ITEM08	Automatic Shoe Polishing Machine	2015
9	ITEM09	Hand-Motion Crane Control Using Radio Frequency Real-Time Location Systems	2015
10	ITEM10	Automatic Oil Dissipation System	2015
11	ITEM11	Hover Craft In Army	2015
12	ITEM12	Grass Cutter Robot	2015
13	ITEM13	Automatic Multilevel Car Parking System	2015
14	ITEM14	Automatic Wall Painting Robot	2015
15	ITIMP15	Diffraction-Compensating Coded Aperture ForInspection In Manufacturing	

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		(Pipe Crawling)	2015
16	ITIMP 16	Row Guidance Agriculture Robot	2014
17	ITEM17	Vehicle Side Stand Alert System	2014
18	ITEM18	Machine Vision Technique For Find Out Defect In Orange	2014
19	ITEM19	Control Of A Snake Robot For Ascending And Descending Steps	2014
20	ITEM20	Power Generation For Street Light Using Speed Breaker	2014
21	ITEM21	Vehicle Traffic Control By A Traffic Robot	2014
22	ITEM22	Two Way Convayor Machine	2014
23	ITEM23	Intelligent Umberlla For Future Hotels	2014
24	ITEM24	Online High-Precision Probabilistic Localization Robotic Fish Using Visual And Inertial Cues	2014
25	ITEM25	Automatic Welding Mechanism System	2014
26	ITEM26	Energy Exchange Between Electric Vehicle Load AndWind Generating Utilities	2014
27	ITEM27	Advanced Power Window Motor Using Permanent Magnet Dc Motor	2014
28	ITEM28	Wall Climbing Robot For Rescue	2015
29	ITEM29	Automated Anesthesia Analyzing System Based On Microcontroller	2015
30	ITEM30	Heat Exchanger Mechanism	2015



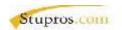


		NTERNET OF THINGS (IOT)	
S.NO	PROJECT CODE	PROJECT TITLES	YEAR
1.	ITIOT1	Alternation usage and predication of power by Embedded in an Internet- of-Things Platform	2015
2.	ITIOT2	Iot Platform Based On Integration Of patient Body Health Sensing And Tele Medicine System	2015
3.	ITIOT3	An Analysis of patients RFID Authentication Schemes for Internet of Things in Healthcare Environment	2015
4.	ITIOT4	A complete Enriched Clinical hygienic Enabling Deployment in Heterogeneous Healthcare Environments using IOT	2015
5.	ITIOT5	A Novel Method for Fault Detection of Three Phase Transmission Lines by Wide-Area Voltage Measurements in IOT	2015
6.	ITIOT6	Behavior Rule Specification-Safety Based on patient and instrument Systems in IOT	2015
7.	ITIOT7	Implementation of a Wireless Health Acquisition System for IEEE 802.15.4 (ZigBee) Applications based on IOT	2015
8.	ITIOT8	RFID based Advanced Technology for security in smart homes using IOT	2015
9.	ITIOT9	Monitoring Of Human Health Condition With Less Power Smart Transmission Mechanism Based On IOT	2015
10.	ITIOT10	An Anonymous Authentication Scheme for theft vehicles and easy Plug in charging for Electric Vehicles	2015
11.	ITIOT11	Reliable measurement for Analog Metering system Using Image Processing Technic	2015
12.	ITIOT12	Optimization of Renewable Energy Sources and Energy Storage Systems in Islanded Micro grids with IOT	2015
13.	ITIOT13	The implementation of Nonintrusive Power Supply Design for Self-Powered Sensor Networks in the Smart Grid to detect fault from AC Power Line	2015
14.	ITIOT14	Implementation of Smart Sensor Interface for water quality monitoring in industry using IOT	2014





15.	ITIOT15	Implementation of Smart Sensor Interface for water quality monitoring in industry using IOT	2014
16.	ITIOT16	IOT based vehicle license plate recognition system	2014
17.	ITIOT17	Internet Controlled Oil Reservoirs	2014
18.	ITIOT18	Iot Based Weather Report	2014
19.	ITIOT19	Patient Health Management System with IOT	2014





ROBOTICS			
S.NO	PROJECT CODE	PROJECT TITLES	YEAR
1	ITROB01	Online High-Precision Probabilistic Localization of Robotic Fish Using Visual and Inertial Cues	2015
2	ITROB02	A Sensor-Based Dual-Arm Tele-Robotic System	2015
3	ITROB03	High-Speed Automated Manipulation of Micro objects Using a Two-Fingered Micro hand	2015
4	ITROB04	Control of a Snake Robot for Ascending and Descending Steps	2015
5	ITROB05	Occlusion-Based Cooperative Transport with a Swarm of Miniature Mobile Robots	2015
6	ITROB06	Towards a New Modality-Independent Interface For a Robotic Wheelchair	2015
7	ITROB07	Human-Like Motion Generation and Control for Humanoid's Dual Arm Object Manipulation	2015
8	ITROB08	Robot Guided Crowd Evacuation	2015
9	ITROB09	Bio-inspired Group Modeling and Analysis for Intruder Detection in Mobile Sensor/Robotic Networks	2015
10	ITROB10	Efficient Road Detection and Tracking for Unmanned Aerial Vehicle	2015
11	ITROB11	A Robust Real-Time Vision System for Autonomous Cargo Transfer by an Unmanned Helicopter	2015
12	ITROB12	An Ultrasonic and Vision-Based Relative Positioning Sensor for Multi robot Localization	2015
13	ITROB13	Artificial Co-Drivers as a Universal Enabling Technology for Future Intelligent Vehicles and Transportation Systems	2015
14	ITROB14	Robust Control of a Miniature Ducted-Fan Aerial Robot for Blind Navigation in Unknown Populated Environments	2015
15	ITROB15	Effects of Vibrotactile Feedback on Human Learning of Arm Motions	2015
16	ITROB16	Wireless Underwater Mobile Robot System Based on Zigbee	2014
17	ITROB17	A Compact and Compliant External Pipe-Crawling Robot	2014





18	ITROB18	An Online Stair-Climbing Control Method for a Transformable Tracked Robot	2014
19	ITROB19	Probability-Based Location Aware Design and On-Demand Robotic Intrusion Detection System	2014
20	ITROB20	Towards a New Modality-Independent Interface For a Robotic Wheelchair	2014
21	ITROB21	A Study on Sinus-Lifting Motion of a Snake Robot With Sequential Optimization of a Hybrid System	2014
22	ITROB22	Mobile Robot Localization Using the Phase Of Passive UHF RFID Signals	2014
23	ITROB23	Vision-Based Robust Path Reconstruction For Robot Control	2014
24	ITROB24	Automatic lighting system using multiple Robotic lamps	2014
	1	ANDROID	
S.NO	PROJECT CODE	PROJECT TITLES	YEAR
25	ITANR01	Smart Diary: A Smartphone-Based Framework forSensing, Inferring, and Logging Users' Daily Life	2015
26	ITANR02	Smart PDR: Smartphone-Based Pedestrian DeadReckoning for Indoor Localization	2015
27	ITANR03	Android Security: A Survey of Issues, Malware Penetration and Defenses	2015
28	ITANR04	A Software Based SonarRanging Sensor for Smart Phones	2015
29	ITANR05	Wearable system for monitoring of oxygenConcentration in breath basedOn optical sensor	2015
30	ITANR06	Automated Health Alerts Using In-Home Sensor Data for Embedded Health Assessment	2015
21		Novel Sampling Algorithm for Human Mobility-Based Mobile Phone	2015
31	ITANR07	Sensing	
32	ITANR07 ITANR08		2015





33	ITANR09	Estimation of Respiratory Rate from Photoplethysmographic Imaging	2015
33		Videos Compared to Pulse Oximetry	
24	ITAND 10	Acquisition and Elaboration of Cardiac Signal in Android Smartphone	2011
34	ITANR10	Devices	2014
35	ITANR11	A Novel Electric Vehicle for Smart Indoor Mobility	2014
36	ITANR12	Unobtrusive Sensing and Wearable Devices For Health Informatics	2014
		AUTOMATION	
S.NO	PROJECT CODE	PROJECT TITLES	YEAR
27	ITAM01	Primary-Side Power Flow Control of Wireless Power Transfer for Electric	2017
37		Vehicle Charging	2015
38	ITAM02	On Curve Negotiation: From Driver Support to Automation	2015
20	ITAM03	Energy Exchange Between Electric Vehicle Load andWind Generating	
39		Utilities	2015
40	ITAM04	Multi objective Vehicle Routing Problems WithSimultaneous Delivery and	
40		Pickup	2015
41	ITAM05	Diffraction-Compensating Coded Aperture forInspection in Manufacturing	2015
41		(PIPE CRAWLING)	2015
42	ITAM06	Energy-Efficient Control Strategies for MachineTools With Stochastic	2015
42		Arrivals	2015
43	ITAM07	An Automated Test Generation Techniquefor Software Quality Assurance	2015
4.4	ITAM08	Path-Constrained Motion Analysis: An Algorithm toUnderstand Human	• • • •
44		Performance on Hydraulic Manipulators	2015
45	ITAM09	A Practical Wireless Attack on the Connected Car and Security Protocol	2015
43		for In-Vehicle CAN	2015
46	ITAM10	Central Electric-Motoring-Assisted Handling Control System for	2015
40		Electrified Vehicles	2015





S.NO	PROJECT CODE	PROJECT TITLES	YEAR	
WIRELESS				
60	ITAM24	Measurement Measurement	2014	
59	ITAM23	An Iranian License Plate Recognition System Based on Color Features Portable Roadside Sensors for Vehicle Counting, Classification, and Speed	2014	
58	ITAM22	Hand-Motion Crane Control Using Radio Frequency real-Time Location Systems	2014	
57	ITAM21	Implementation of CAN bus in an autonomous All-Terrain Vehicle	2014	
56	ITAM20	An Industrial Perspective on Wireless Sensor Networks - A Survey of Requirements, Protocols, and Challenges	2014	
55	ITAM19	Text Detection and Recognition on Traffic Panels From Street-Level Imagery Using Visual Appearance	2014	
54	ITAM18	Guest Editorial Special Section on Building Automation, Smart Industry Robot	2014	
53	ITAM17	Receiver Autonomous Integrity Monitoring of GNSS Signals for Electronic Toll Collection	2014	
52	ITAM16	Automatic Detection of Squats in Railway Infrastructure	2014	
51	ITAM15	Constrained Global Path Optimization for Articulated Steering Vehicles	2015	
50	ITAM14	Integrated Indoor Navigation System for GroundVehicles With Automatic 3-D Alignment and Position Initialization	2015	
49	ITAM13	Wireless Sensor Networks for Condition Monitoringin the Railway Industry: A Survey	2015	
48	ITAM12	Designing Steering Feel for Steer-by-Wire VehiclesUsing Objective Measures	2015	
47	ITAM11	Detection of U.S. Traffic Signs	2015	





61	ITWI01	Implementation of a Wireless ECG Acquisition SoCfor IEEE 802.15.4 (ZigBee) Applications	2015
62	ITWI02	A Zigbee-Based Animal Health Monitoring System	2015
63	ITWI03	Design and Application of a VOC-Monitoring System Based on a ZigBee Wireless Sensor Network	2015
64	ITWI04	Charging Time Characterization for Wireless RF Energy Transfer	2015
65	ITWI05	Real-time Fire Detection for Video Surveillance Applications using a Combination of Experts based on Color, Shape and Motion	2015
66	ITWI06	C-Band SAR Backscatter Evaluation of 2008 Gallipoli Forest Fire	2015
67	ITWI07	ZigBee-Based Communication System for Data Transfer Within Future Microgrids	2015
68	ITWI08	A Blind Zone Alert System Based on Intra-Vehicular Wireless Sensor Networks	2015
69	ITWI09	Wireless Power Transfer for Electric Vehicle Applications	2015
70	ITWI10	Investigating Wireless Charging and Mobility of Electric Vehicles on Electricity Market	2015
71	ITWI11	A Low Cost, Highly Scalable Wireless Sensor Network Solution to Achieve Smart LED Light Control for Green Buildings	2015
72	ITWI12	A Low-Power Wireless Sensor for Online Ambient Monitoring	2015
73	ITWI13	Passive and Semi-Passive Wireless Temperature and Humidity Sensors Based on EPC Generation-2 UHF Protocol	2015
74	ITWI14	An Approach of Reliable Data Transmission With Random Redundancy for Wireless Sensors in Structural Health Monitoring	2015
75	ITWI15	Wireless Resource Allocation in Next Generation Healthcare Facilities	2015
76	ITWI16	Channel and Energy Modeling for Self-Contained Wireless Sensor Networks in Oil Reservoirs	2014





77	ITWI17	WSN-Based Smart Sensors and Actuator for Power Management in Intelligent Buildings	2014
78	ITWI18	Data Reduction and Energy Sustenance In Multi sensor Networks for Landslide Monitoring	2014
79	ITWI19	A Reconfigurable Smart Sensor Interface for Industrial WSN in IoT Environment	2014
80	ITWI20	A System for Automatic Notification and Severity Estimation of Automotive Accidents	2014
81	ITWI21	Wireless Sensor Network Based Smart Home: Sensor Selection, Deployment and Monitoring	2014

		GSM & GPS	
S.NO	PROJECT CODE	PROJECT TITLES	YEAR
82	ITGP01	Understanding Taxi Service StrategiesFrom Taxi GPS Traces	2015
83	ITGP02	Real-Time GPS Precise Point Positioning-BasedPerceptible Water Vapor Estimation forRainfall Monitoring and Forecasting	2015
84	ITGP03	Traffic Sensing Through MATLAB	2015
85	ITGP04	Implementing Intelligent Traffic Control System forCongestion Control, Ambulance Clearance, And Stolen Vehicle Detection	2015
86	ITGP05	Energy-Efficient Models of Sustainable Location for vehicle Inspection Station with Emission Constraints	2015
87	ITGP06	Energy-Efficient Real-Time Human Mobility StateClassification Using Smart phones	2015
88	ITGP07	Sensed: Sensing Driving Conditions to Estimate Vehicle Speed in Urban Environments	2015
89	ITGP08	Automatic detection and notification of potholes and humps on roads to aid	2015





		drivers	
90	ITGP09	A Smart Phone-Based Pocket Fall AccidentDetection, Positioning, and Rescue System	2015
91	ITGP10	A Methodology for Denoising and Generating Bus Infrastructure Data	2015
92	ITGP11	Miniature Folded Patch GPS Antenna for VehicleCommunication Devices	2015
93	ITGP12	Road-Network Aware Trajectory Clustering:Integrating Locality, Flow, and Density	2015
94	ITGP13	A Compressive Sensing Approach to DescribeIndoor Scenes for Blind People	2015
95	ITGP14	Indoor Tracking: Theory, Methods, and Technologies	2015
96	ITGP15	Fall Detection Based on Body Part Tracking	2015
97	ITGP16	A New Payment System for Enhancing Location Privacy of Electric Vehicles	2014
98	ITGP17	A System for Automatic Notification and Severity Estimation of Automotive Accidents	2014
99	ITGP18	Automated Irrigation System Using a Wireless Sensor Network and GPRS Module	2014
100	ITGP19	Rail Component Detection, Optimization, and Assessment for Automatic Rail Track Inspection	2014
101	ITGP20	Automatic ambulance rescue system	2014

CONSUMER ELECTRONIC			
S.NO	PROJECT CODE	PROJECT TITLE	YEAR
102	ITCE01	Synergistic Change Detection and Tracking	2015
103	ITCE02	Unknown Tag Identification in Large RFIDSystems: An Efficient and Complete Solution	2015
104	ITCE03	Global Sensor Deployment and LocalCoverage-Aware Recovery Schemes	2015





		forSmart Environments	
105	ITCE04	Use of an Inertial/Magnetic Sensor Module forPedestrian Tracking During Normal Walking	2015
106	ITCE05	Integration of MEMS Inertial and Pressure Sensorsfor Vertical Trajectory Determination	2015
107	ITCE06	PRLS-INVES: A General Experimental InvestigationStrategy for High Accuracy and Precision inPassive RFID Location Systems	2015
108	ITCE07	Accurate and Efficient Object Tracking basedon Passive RFID	2015
109	ITCE08	Proximity Sensing Based on a Dynamic Vision Sensor for Mobile Devices	2015
110	ITCE09	A Rule-based Service Customization Strategy for Smart Home Context-aware Automation	2015
111	ITCE10	Exploiting Passive RFID Technology for Activity Recognition in Smart Homes	2015
112	ITCE11	A Health-IOT Platform based on the Integration of intelligent Packaging, Bio-Sensor and Intelligent Medicine Box	2014
113	ITCE12	Assistive clothing pattern recognition For visually impaired people	2014
114	ITCE13	Modeling and Detecting Aggressiveness From Driving Signals	2014
115	ITCE14	Prototype of a fingerprint based licensing system for driving	2014

ELECTRICAL			
S.NO	PROJECT CODE	PROJECT TITLE	YEAR
116	ITEEE01	Real-Time Energy Storage Management for Renewable Integration in Microgrid: An Off-Line Optimization	2015
117	ITEEE02	Data-Stream-Based Intrusion Detection System for Advanced Metering Infrastructure in Smart Grid: A Feasibility Study	2015
118	ITEEE03	WSN-Based Smart Sensors and Actuator for Power Management in Intelligent Buildings	2015





119	ITEEE04	Distributed Smart-Home Decision-Making in a Hierarchical Interactive	2015
		Smart Grid Architecture	
120	ITEEE05	Condition Monitoring of an Induction Motor Stator Windings Via Global	2015
		Optimization Based on the Hyperbolic Cross Points	2013
121	ITEEE06	Last-Meter Smart Grid Embedded in an Internet-of-Things Platform	2015
		Energy Management in the Decentralized Generation Systems Based on	
122	ITEEE07	Renewable Energy—Ultra capacitors and Battery to Compensate the	2015
		Wind/Load Power Fluctuations	
123	ITEEE08	Real-Time Price Based Home Energy ManagementScheduler	2015
		An Anonymous Authentication Scheme for Plugin Electric Vehicles	
124	ITEEE09	Joining to Charging/Discharging Station in Vehicle-to-Grid (V2G)	2015
		Networks	
105	ITEEE10	Extraction of Energy Information From Analog Meters Using Image	
125		Processing	2015
106	ITEEE11	A Control Architecture to Coordinate Renewable Energy Sources and	2015
126		Energy Storage Systems in Islanded Microgrids	
107	ITEEE12	A Nonintrusive Power Supply Design for Self-Powered Sensor Networks	
127		in the Smart Grid by Scavenging Energy From ACPower Line	2015
128	ITEEE13	Power Control in AC Isolated Microgrids With Renewable Energy Sources	2015
128		and Energy Storage Systems	
120	ITEEE14	A Novel Method for Fault Location of Transmission Lines by Wide-Area	
129		Voltage Measurements Considering Measurement Errors	2015
120	ITEEE15	A Constraint-Aware Heuristic Path Planner for Finding Energy-Efficient	2015
130		Paths on Uneven Terrains	2015
131	ITEEE16	Integrated Planning for Transition to Low-Carbon Distribution System With	2014
131		Renewable Energy Generation and Demand Response	
132	ITEEE17	Optimal Scheduling of Critical Peak Pricing Considering Wind Commitment	2014
133	ITEEE18	Adaptive Electricity Scheduling in Micro grids	2014





134	ITEEE19	360° sun tracking with automated cleaning system for solar PV modules	2014	
	BIOMEDICAL			
S.NO	PROJECT CODE	PROJECT TITLE	YEAR	
		PSMPA: Patient Self-Controllable and Multi-Level Privacy-Preserving		
135	ITBIO01	Cooperative Authentication in Distributed m-Healthcare Cloud Computing	2015	
		System		
136	ITBIO02	An Implantable RFID Sensor Tag toward ContinuousGlucose Monitoring	2015	
137	ITBIO03	Self-Powered Monitoring of Repeated Head ImpactsUsing Time-Dilation	2015	
137	1101003	Energy Measurement Circuit	2013	
		Current and Future Challenges in Point-of-Care Technologies: A		
138	ITBIO04	Paradigm-Shift in Affordable Global Healthcare With Personalized and	2015	
		Preventive Medicine		
139	ITBIO05	Intelligent Disease Self-Management with Mobile Technology	2015	
140	ITBIO06	Smartphone-Centric Ambient Assisted Living Platform for Patients	2015	
140	1101000	Suffering from Co-Morbidities Monitoring	2015	
141	ITBIO07	An Analysis of RFID Authentication Schemes for Internet of Things in	2015	
171	TIBIOUT	Healthcare Environment Using Elliptic Curve Cryptography		
142	ITBIO08	A Precise RFID Indoor Localization System with SensorNetwork	2015	
172	1101000	Assistance		
143	ITBIO09	Real-Time Closed-Loop Control of Human HeartRate and Blood Pressure	2015	
144	ITBIO10	Evaluation of Pressure Bed Sensor for Automatic SAHS Screening	2015	
145	ITBIO11	The Development of a Blood Leakage Monitoring System for the	2015	
173	TIDIOTI	Applications in Hemodialysis Therapy		
146	ITBIO12	System Architecture for Low-Power Ubiquitously Connected Remote	2015	
170		Health Monitoring Applications With SmartTransmission Mechanism	2015	
147	ITBIO13	Automated Detection of Sleep Apnea and Hypopnea Events Based on	2015	
11/		Robust Airflow Envelope Tracking in the Presence of Breathing Artifacts	2013	





148	ITBIO14	Behavior Rule Specification-Based Intrusion Detection for Safety Critical Medical Cyber Physical Systems	2015
149	ITBIO15	A Semantically Enriched Clinical Guideline Model Enabling Deployment in Heterogeneous Healthcare Environments	2015
150	ITBIO16	Integrated Circuits and Electrode Interfaces for Noninvasive Physiological Monitoring	2014
151	ITBIO17	A Survey on Wireless Body Area Networks: Technologies and Design Challenges	2014
152	ITBIO18	Potential for Health Screening Using Long-Term Cardiovascular Parameters Measured by Finger Volume-Oscillometry: Pilot Comparative Evaluation in Regular and Sleep-Deprived Activities	2014
153	ITBIO19	Patient Health Management System using e-Health Monitoring Architecture	2014

Education Partners:















Technologies and Domain used:

IEEE 2014, Java, J2ee, Android, Dot net, PHP, Embedded, Vlsi, Matlab, VB, Net working, Data Mining, Image Processing, Cloud Computing, Mobile Computing, Multimedia, Network Security, Soft Engg, Grid Computing, Automation, Robotics, Communication, RF, Zigbee, Blue tooth, GSM/GPS/G-PRS, Power Electronics & Systems, Electrical, DSP, RTOS, Bio metrics, etc.

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