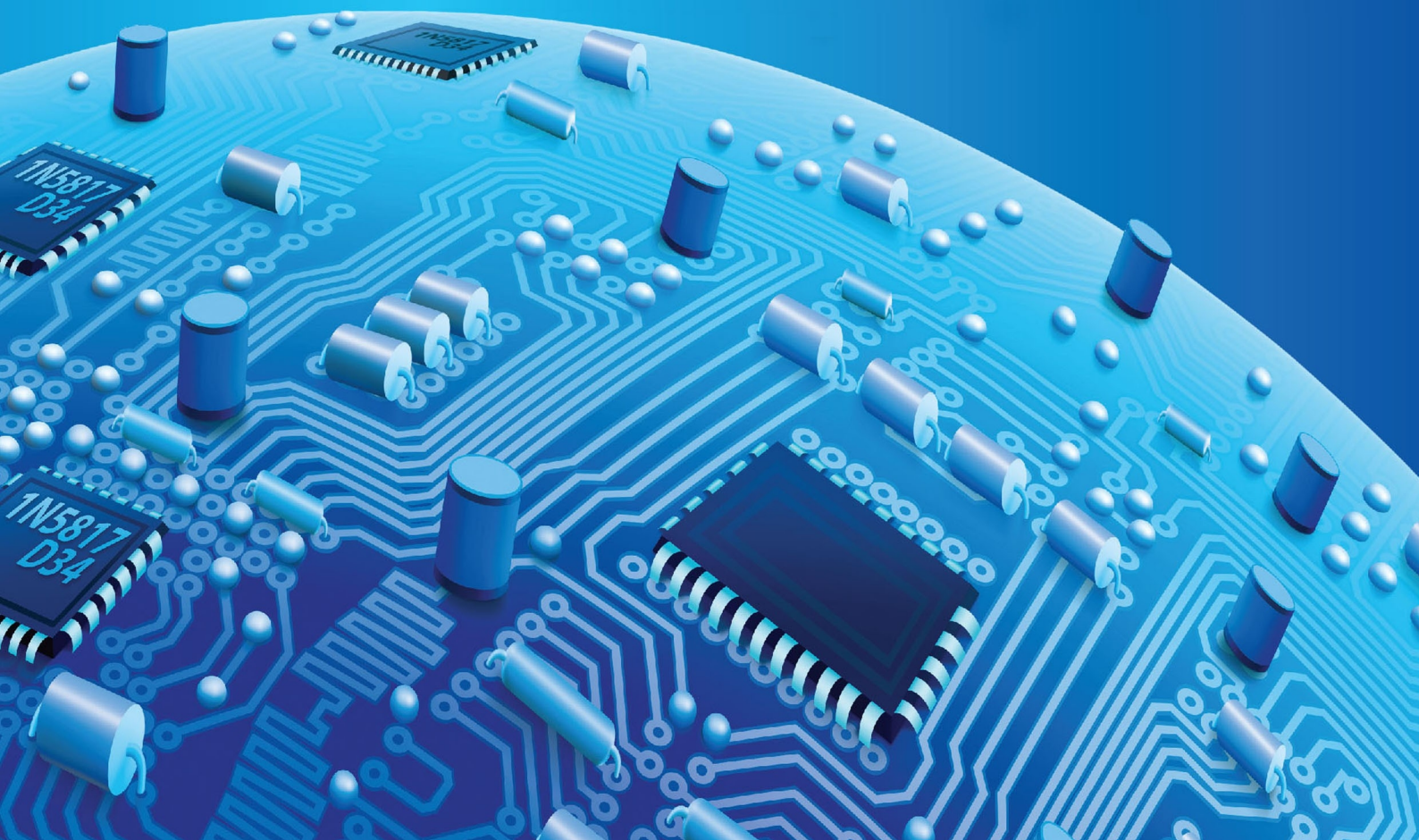




SPIRO
SOLUTIONS PVT LTD

**COMMUNICATION
PROJECT TITLE
2015 - 2016**





TECHNOLOGY : MATLAB

DOMAIN : COMMUNICATION

S.NO	CODE	PROJECT TITLES	APPLICATION	YEAR
1.	ITCM01	ON THE SUM-RATE OF THE GAUSSIAN MIMO-Z CHANNEL AND THE GAUSSIAN MIMO X CHANNEL	MIMO	2015
2.	ITCM02	IMPROVING PHYSICAL LAYER SECURITY FOR CRNS USING SINR-BASED COOPERATIVE BEAMFORMING	CRN	2015
3.	ITCM03	RELAY-SELECTION IMPROVES THE SECURITY-RELIABILITY TRADE-OFF IN COGNITIVE RADIO SYSTEMS	CRN-RELAY	2015
4.	ITCM04	EFFECT OF MUTUAL COUPLING ON THE CHANNEL CAPACITY OF MIMO SYSTEMS	MIMO	2015
5.	ITCM05	PERFORMANCE OF RECONFIGURABLE ANTENNAS IN A BELOW-DECKS ENVIRONMENT	MIMO-OFDM	2015
6.	ITCM06	GENERALIZATION OF ORTHOGONAL FREQUENCY DIVISION MULTIPLEXING WITH INDEX	OFDM	2015

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		MODULATION		
7.	ITCM07	SPECTRAL EFFICIENCY OF OFDM SYSTEMS WITH RANDOM RESIDUAL CFO	OFDM	2015
8.	ITCM08	SUM RATE MAXIMIZATION OF AN MIMO TWO-WAY RELAY SYSTEM USING MSE DUALITY	MIMO-RELAY	2015
9.	ITCM09	PAPR ANALYSIS OF CLASS-III SLM SCHEME BASED ON VARIANCE OF CORRELATION OF ALTERNATIVE OFDM SIGNAL SEQUENCES	OFDM	2015
10.	ITCM10	OUTAGE PROBABILITY OF ENERGY HARVESTING RELAY-AIDED COOPERATIVE NETWORKS OVER RAYLEIGH FADING CHANNEL	RELAY	2015
11.	ITCM11	SPACE SHIFT KEYING FOR LOS COMMUNICATION AT MMWAVE FREQUENCIES	MIMO	2015



12.	ITCM12	LINEAR PRECODING FOR MIMO WITH LDPC CODING AND REDUCED COMPLEXITY	MIMO-LDPC	2015
13.	ITCM13	PERFORMANCE EVALUATION OF MIMO OFDM SYSTEMS IN ON-SHIP BELOW-DECK ENVIRONMENTS	OFDM	2014
14.	ITCM14	TO COOPERATE OR NOT TO COOPERATE: AN OUTAGE ANALYSIS OF INTERFERENCE-LIMITED WIRELESS NETWORKS.	RELAY	2014
15.	ITCM15	POWER CONTROL AND ASYMPTOTIC THROUGHPUT ANALYSIS FOR THE DISTRIBUTED COGNITIVE UPLINK	CRN	2014
16	ITCM16	CHANNEL MODEL FOR SATELLITE COMMUNICATION LINKS ABOVE 10GHZ BASED ON	MIMO	2014



		WEIBULL DISTRIBUTION		
17	ITCM17	ON THE OUTAGE PERFORMANCE OF SELECTION AMPLIFY- AND-FORWARD RELAYING SCHEME	RELAY	2014
18	ITCM18	DYNAMIC SUBCARRIER COORDINATE INTERLEAVING FOR EAVESDROPPING PREVENTION IN OFDM SYSTEMS	OFDM	2014
19	ITCM19	ANALYSIS OF THE POWER AMPLIFIER NONLINEARITY ON THE POWER ALLOCATION IN COGNITIVE RADIO NETWORKS	CRN	2014
20	ITCM20	ON SIGNAL DETECTION IN THE PRESENCE OF WEAKLY CORRELATED NOISE OVER FADING CHANNELS	CRN	2014



MATLAB

TECHNOLOGY : MATLAB

DOMAIN : DIGITAL SIGNAL PROCESSOR

S.NO	CODE	PROJECT TITLES	APPLICATION	YEAR
21	ITDSP01	FAIRNESS FOR NON-ORTHOGONAL MULTIPLE ACCESS IN 5G SYSTEMS	NOMA	2015
22	ITDSP02	SUM-RATE OPTIMAL NETWORK BEAMFORMING AND SUBCARRIER POWER ALLOCATION FOR MULTI-CARRIER SYNCHRONOUS TWO-WAY RELAY NETWORKS	MIMO-RELAY	2015
23	ITDSP03	MIMO-OTH RADAR: SIGNAL MODEL FOR ARBITRARY PLACEMENT AND SIGNALS WITH NON-POINT TARGETS	MIMO-OTH RADAR	2015



24	ITDSP04	LOW COST PRE-CODER DESIGN FOR MIMO AF TWO-WAY RELAY CHANNEL	MIMO-RELAY	2015
25	ITDSP05	TRANSCIEVER DESIGN FOR HYBRID ONE-WAY AND TWO-WAY RELAY NETWORKS	RELAY	2014
26	ITDSP06	MIMO SYSTEMS WITH QUANTIZED COVARIANCE FEEDBACK	MIMO	2014
27	ITDSP07	INTERFERENCE ALIGNMENT WITH PARTIAL CSI FEEDBACK IN MIMO CELLULAR NETWORKS	MIMO	2014
28	ITDSP08	RANK-TWO BEAMFORMED SECURE MULTICASTING FOR WIRELESS INFORMATION AND POWER TRANSFER	MIMO	2014



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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/GPRS, Power Electronics & Systems, Electrical, DSP, RTOS, Bio metrics, etc.

Features

- Latest 2014 IEEE, Science Direct, ACM based project concept and solutions.
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- Our environment is encapsulated with doctorates, professionals and other experts.
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