

Speaker's Schedule

Date/ Day	Time	Session/Venue	Speaker and Title
<i>Keynote Address</i>			
17.12.2012/ Monday	9.15 AM – 10.00 AM	Inaugural Session/ Joint Halls	“Information and Communications Technologies for Ubiquitous Healthcare”, M J Deen , McMaster University, Canada
<i>Plenary Speakers</i>			
17.12.2012/ Monday	4.30 PM – 5.15 PM	M3/ Joint Halls	“Wireless Communications Research: the Next Two Decades”, U. Madhow , University of California, Santa Barbara, USA
17.12.2012/ Monday	5.15 PM – 6.00 PM	M3/ Joint Halls	“Radio Communication, Radio Astronomy and Space Science”, S. Ananthkrishnan , University of Pune, India
18.12.2012/ Tuesday	9.00 AM – 9.45 AM	T1/ / Joint Halls	“Review on PPLN Waveguide-based Photonic Processing for Phase-coded Signals in New Generation Optical Networks”, Antonio Malacarne, Antonella Bogoni , Emma Lazzeri, Gianluca Berrettini, CNIT, Pisa, Italy.

18.12.2012/ Tuesday	9.45 AM – 10:30 AM	T1/ / Joint Halls	“Rough-fuzzy Image Analysis: Granular Mining”, Sankar Pal , ISI, Kolkata, India.
<i>Invited Speakers</i>			
17.12.2012/ Monday	10.30 AM – 11.00 AM	M1/ Hall A	“Optical Properties of Semiconductor Quantum Structures Relevant for Practical Applications”, Sandip Ghosh , Dept. of Condensed Matter Physics and Material Science, TIFR, Mumbai.
17.12.2012/ Monday	11:00 AM – 11:30 AM	M1/ Hall A	“Quantum Dot Photonic Devices for Energy Efficient Signal Processing Systems”, Osamu Wada , Kobe Univ., Japan.
17.12.2012/ Monday	11: 30 AM – 12:00 PM	M1/ Hall A	“Investigating Dilute Nitride Materials for Broad Band SOAs for Optical Communications”, Judy M Rorison , Xiao Sun, Nikolaos Vogiatzis, Univ. of Bristol, UK.
17.12.2012/ Monday	10:30 AM – 11:00 AM	M1/ Hall B	“From Biosensors to Lab-on-Chip: Developing Chip-based Biosensors for Environmental and Clinical Applications”, Martin Mkandawire , Cape Breton University, Canada.
17.12.2012/ Monday	11:00 AM – 11:30 AM	M1/ Hall B	“An End-to-End Mobile Platform for Pervasive Healthcare”, Ranjan Gangopadhyay , LNMIIT, India
17.12.2012/ Monday	10.30 AM – 11.00 AM	M1/ Hall C	“Intelligent Proximity Sensors”, Somnath Mukherjee , RB Technology, MILPITAS, CA, USA.
17.12.2012/ Monday	11:00 AM – 11:30 AM	M1/ Hall C	“A Novel Multilayer/3D Technology for Advanced Microwave and Millimetre-wave Wireless Circuits and Systems”, Kamal Samanta , University of Leeds, UK.

18.12.2012/ Tuesday	11: 00 AM – 11: 30 AM	T2/ Hall A	“III-V Nanowires for Optoelectronic Applications”, H.H. Tan , N. Jiang, Y.H. Lee, D. Saxena, P. Parkinson, Q. Gao, L. Fu and C. Jagadish, Australian National University, Canberra, Australia.
18.12.2012/ Tuesday	11: 30 AM – 12: 00 PM	T2/ Hall A	“Study of Light Propagation in Photonic and Plasmonic Crystals through Fourier Image Spectroscopy”, M. López-Garcí , Univ. of Bristol, UK.
18.12.2012/ Tuesday	11: 00 AM – 11: 30 AM	T2/ Hall B	”Emerging Technological Challenges in Spectrum Management”, D. C. Pande , LRDE, DRDO, India.
18.12.2012/ Tuesday	11: 00 AM – 11: 30 AM	T2/ Hall C	“A Novel Proposal of Chipless RFID Using Layered Metal Patches”, Goutam Chakraborty , Iwate Prefectural University, Japan
18.12.2012/ Tuesday	11: 30 AM – 12: 00 PM	T2/ Hall C	“Chipless RFID: Revolution in Identification in the New Millennium”, Nemai C Karmakar , Monash University, Australia
18.12.2012/ Tuesday	4.30 PM – 5.00 PM	T4/ Hall A	“Waveguide based Quantum Dot Spin Devices for On-chip Quantum Information Applications”, Ruth Oulton , Univ. of Bristol, UK.
18.12.2012/ Tuesday	5.00 PM - 5:30 PM	T4/ Hall A	“Photonic Crystal Surface Emitting Lasers”, Richard Hogg , The University of Sheffield, UK.
18.12.2012/ Tuesday	4.30 PM – 5.00 PM	T4/ Hall B	“Terahertz Science, Technology, and Communication”, Goutam Chattopadhyay , Jet Propulsion Laboratory, California Institute of Technology, USA.
18.12.2012/ Tuesday	5.00 PM - 5:30 PM	T4/ Hall B	“Radio Science and Wireless Communications for the Smart Grid”, I. A. Glover , J. M. R. de Souza Neto, S. A. Bhatti, J. S. da Rocha Neto, M. F. Vieira, R. Atkinson, M. Judd and J. J. Soraghan, Engineering University of

			Strathclyde, Glasgow, UK.
18.12.2012/ Tuesday	4.30 PM – 5.00 PM	T4/ Hall C	“Image Processing using Quadratic Volterra Filters”, Sanjit K. Mitra , University of California, Santa Barbara, California.
18.12.2012/ Tuesday	5.00 PM - 5:30 PM	T4/ Hall C	“Adaptive Blind Equalization Based on the Minimum Entropy Principle”, Asoke K. Nandi , Univ. of Liverpool, UK.
19.12.2012/Wednesday	9: 00 AM – 9:30 AM	W1/ Hall A	“Application-specific Microstructured Specialty Optical Fibers: An Emerging Platform for Exotic Fiber Designs”, Bishnu P. Pal , IIT Delhi, India.
19.12.2012/Wednesday	9: 00 AM – 9:30 AM	W1/ Hall B	“Bio-inspired Algorithms for Optimal Feature Subset Selection”, Basabi Chakraborty , Iwate Prefectural University, Japan.
19.12.2012/Wednesday	9: 00 AM – 9:30 AM	W1/ Hall D	“Future Perspectives of SAR Polarimetry with Applications to Multi-parameter Fully Polarimetric POLSAR Remote Sensing & Geophysical Stress-Change Monitoring”, W. M. Boerner , University of Illinois at Chicago, USA.
19.12.2012/Wednesday	9: 30 AM – 10:00 AM	W1/ Hall D	“Space Weather Effects on the Performance of Satellite-based Communication Systems”, Archana Bhattacharyya , Indian Institute of Geomagnetism, India
19.12.2012/Wednesday	11:00 AM – 11:30 AM	W2/ Hall A	“Nano-Structured Metal-Semiconductor-Metal Photo-Detectors for Enhanced Light Absorption”, Narottam Das , Farzaneh Fadakari Masouleh, and Hamid Reza, Curtin Univ. Australia.
19.12.2012/Wednesday	11:00 AM – 11:30 AM	W2/ Hall D	“Radio Environment Characterization for Radio Communication and other Applications in India”, S. K. Sarkar , NPL, India.
19.12.2012/Wednesday	2:00 PM – 2:30	W3/ Hall A	“Ultrafast Laser Inscription - A New Technology for Photonic and Bioph

	PM		Devices”, Ajoy K. Kar , Heriot-Watt Univ., Scotland, UK.
19.12.2012/Wednesday	2:00 PM – 2:20 PM	W3/ Hall B	“Evolution to New Generation Network”, Somnath Maity , BSNL, K India.
19.12.2012/Wednesday	2:20 PM – 2:30 PM	W3/ Hall B	Ashutosh Diwvedi , Agilent Technologies, India.

Chairperson's Schedule

Date/ Day	Time	Session/Venue	Chairperson (s)
17.12.2012/ Monday	9:15 AM – 10:00 AM	M1/ Joint Halls	S. K. Mitra, University of Santa Barbara, CA, USA
17.12.2012/ Monday	10:30 AM – 01:00 PM	M1/ Hall A	J. Sarma, University of Bath, Bath, UK.
17.12.2012/ Monday	10:30 AM – 01:00 PM	M1/ Hall B	S. K. Lahiri, BESU, India.
17.12.2012/ Monday	10:30 AM – 1:00 PM	M1/ Hall C	TBD
17.12.2012/ Monday	2:00 PM – 3:20 PM	M2/ Hall A	Susmita Sur Koley, ISI Kolkata, India
17.12.2012/ Monday	2:00 PM – 3:20 PM	M2/ Hall B	S. K. Paul, ISM Dhanbad, India
17.12.2012/ Monday	2:00 PM – 3:20 PM	M2/ Hall B	Iti Saha Misrhra, JU, India
17.12.2012/ Monday	4:30 PM – 6: 00 PM	M3/ Joint Halls	W. M. Boerner, UIC, Chicago, USA.
18.12.2012/ Tuesday	9:00 AM – 10:30 AM	T1/ Joint Halls	S. Ananthakrishnan, Univ. of Pune, India.
18.12.2012/ Tuesday	11:00 AM – 12: 45 PM	T2/ Hall A	R. Hogg, The University of Sheffield, UK
18.12.2012/ Tuesday	11:00 AM – 12: 45 PM	T2/ Hall B	I A. Glover, University of Strathclyde, UK
18.12.2012/ Tuesday	11:00 AM – 12: 45 PM	T2/ Hall C	Antonella Bogoni, CNIT Pisa, Italy
18.12.2012/ Tuesday	2:00 PM – 3: 00 PM	T3/ Hall A	S. N. Sarkar, Univ. of Calcutta, India.

18.12.2012/ Tuesday	2:00 PM – 3: 00 PM	T3/ Hall B	TBD
18.12.2012/ Tuesday	2:00 PM – 3: 00 PM	T3/ Hall C	TBD
18.12.2012/ Tuesday	4:30 PM – 5: 30 PM	T4/ Hall A	S. Dhar, Univ. of Calcutta, India
18.12.2012/ Tuesday	4:30 PM – 5: 30 PM	T4/ Hall B	TBD
18.12.2012/ Tuesday	4:30 PM – 5: 30 PM	T4/ Hall C	Malay Kundu, ISI Kolkata, India
19.12.2012/ Wednesday	9:00 AM – 10: 30 AM	W1/ Hall A	R. Gangopadhyay, LMNIIT, India
19.12.2012/ Wednesday	9:00 AM – 10: 30 AM	W1/ Hall B	S. Kundu, WBUT, India
19.12.2012/ Wednesday	9:00 AM – 10: 30 AM	W1/ Hall D	S. K. Sarkar, NPL, New Delhi, India
19.12.2012/ Wednesday	11:00 AM – 1:00 PM	W2/ Hall A	A K. Kar, Heriot-Watt University, Edinburgh, UK
19.12.2012/ Wednesday	11:00 AM – 1:00 PM	W2/ Hall B	Basabi Chakrabarty, IWATE, Japan
19.12.2012/ Wednesday	11:00 AM – 1:00 PM	W2/ Hall D	Goutam Chattopadhyay, JPL, California Inst of Tech., USA.
19.12.2012/ Wednesday	2:00 PM – 4:00 PM	W3/ Hall A	B P. Pal, IIT Delhi, New Delhi, India.
19.12.2012/ Wednesday	2:00 PM – 4:00 PM	W3/ Hall B	Samar Chakrabarty, Ex-CGM, BSNL, Kolkata
19.12.2012/ Wednesday	2:00 PM – 4:00 PM	W3/ Hall D	Goutam Chakraborty, IWATE, Japan

Speakers of contributory papers are requested to follow the new paper code given in this program schedule for any future correspondence

The different areas with their codes are given below:

- ✚ Electron Devices and Materials (EDM)
- ✚ Optoelectronics and Lightwave Technology(OLT)
- ✚ Radiocommunication & Space Science (RSS)
- ✚ Antennas and Propagation (APS)
- ✚ Microwave and Millimeter-wave Techniques (MMT)
- ✚ Cognitive Radio and Communication (CRC)
- ✚ Advances in Computers (ADC)
- ✚ Circuits and Systems (CIS)
- ✚ Topics in Emerging Areas (TEA)
- ✚ Microelectronics and VLSI (MEV)
- ✚ Nano Electronics and Photonics (NEP)

Hall A: *B R Nag Hall*

Hall B: *A K Choudhury Hall*

Hall C: *M K Dasgupta Hall*

Hall D: *A N Daw Hall*

Understanding of New Code (example: M1_A_APS_90_9999):

1. First section indicates the **session** (here M1) where **first letter** indicates the **day of the week** : (here M for 'Monday').
2. Second section indicates the **venue** (here **Hall A**).
3. Rest indicates the given **paper code** of the author (s).

CODEC 2012 Final Program Schedule

December 17, 2012: Monday	
8.00 AM	Registration
9.00 AM – 9.15 AM	Inauguration
9.15 AM – 10.00 AM	<p style="text-align: center;">Keynote address <i>Chair: Sanjit K. Mitra</i> <i>(Joint Halls)</i></p>
	“Information and Communications Technologies for Ubiquitous Healthcare”, M J Deen , McMaster University, Canada
10.00 – 10.30 AM	HIGH TEA
Parallel Technical Oral Session	
10.30 AM – 1.00 PM (M1)	<p style="text-align: center;">Hall A: <i>B R Nag Hall</i> <i>Chair: Jayanta Sarma</i></p>
	<ul style="list-style-type: none"> • Invited: “Optical Properties of Semiconductor Quantum Structures Relevant for Practical Applications”, Sandip Ghosh, Dept. of Condensed Matter Physics and Material Science, TIFR, Mumbai. • Invited: “Quantum Dot Photonic Devices for Energy Efficient Signal Processing Systems”, Osamu Wada, Kobe Univ., Japan. • Invited: “Investigating Dilute Nitride Materials for Broad Band SOAs for Optical Communications”, Judy M Rorison, Xiao Sun, Nikolaos Vogiatzis, Univ. of Bristol, UK. • MI_A_OLT_26_2866: “Optical Demux Using Silicon-Silica Based 2D Photonic Crystal”, Arkaprava Praharaj,

	<p>Chayanika Bose, Shounak Dasgupta.</p> <ul style="list-style-type: none"> • MI_A_OLT_27_3356: “Modelling of An Optical Threshold Element Based On SOAs”, Nikolaos P. Diamantopoulos, Valeria Vercesi, Mirco Scaffardi, Antonella Bogoni. • MI_A_OLT_34_367: “Design of “Chess-board” like Photonic Crystal Structure for Enhancement of LED Light Extraction”, Saroj Kanta Patra, Sonachand Adhikari and Suchandan Pal. • MI_A_OLT_37_7932: “Four-Wave Mixing in Semiconductor Optical Amplifiers for High-Speed Communications”, Narottam Das, Mohammad Razaghi, S. Rasoul Hosseini • MI_A_OLT_L2: “Broad band gain incorporating quantum-dot Fluctuations for a GaInAs Semiconductor optical amplifier”, X.Sun, N.Vogiatzis, J.M.Rorison
<p>10.30 AM – 1.00 PM (M1)</p>	<p>Hall B: A K Choudhury Hall <i>Chair :S. K. Lahiri</i></p>
	<ul style="list-style-type: none"> • Invited: “From Biosensors to Lab-on-Chip: Developing Chip-based Biosensors for Environmental and Clinical Applications”, Martin Mkandawire, Cape Breton University, Canada. • Invited:: “An End-to-End Mobile Platform for Pervasive Healthcare”, Ranjan Gangopadhyay, LNMIIT, India • MI_B_EDM-6_9045: “Study of Transient Response Characteristics of Electrons in GaN by Monte Carlo Method”, Aniruddha Ghosal, Arindam Biswas • MI_B_EDM_9_9539: “An Analytical Modeling of Interface Charge Induced Effects on Subthreshold Current and Subthreshold Swing of strained-Si (s-Si) on Silicon-Germanium-on-Insulator (SGOI) MOSFETs”, Mirgender Kumar, Sarvesh Dubey, S. Jit, Pramod Kumar Tiwari • MI_B_EDM_17_9986: “A Detail Simulation Study on Extended Source Ultra-Thin Body Double-Gated Tunnel FET”, Sayan Kanungo, Partha Sarathi Gupta, Hafizur Rahaman, Partha Sarathi Dasgupta. • MI_B_EDM_27_9486: “Modeling of transport behavior of the ballistic Silicon nanowire gate-all-around field-effect-transistors (Si NWFETs) with Si/SiO₂ interface roughness”, Basudev Nag Chowdhury, Sanatan Chattopadhyay • MI_B_EDM-30_9604: “LPE Grown GaAs_{1-x}N_x (x ≤ 0.01) for Photoconductive Devices”, S.K Das, S. Dhar, A. Bhattacharya.

	<ul style="list-style-type: none"> • MI_B_EDM-L2: “Modeling minority charge partitioning factor in SiGe HBTs using full regional approach”, Noel Augustin, Anjan Chakraborty. • MI_B_CIS_2_3491: “Voltage-Mode Third Order Band Pass Filter Employing Operational Transresistance Amplifier”, Ashish Ranjan, Mourina Ghosh, Sajal K. Paul
10.30 AM – 1.00 PM (M1)	Hall C: M K Dasgupta Hall <i>Chair :TBD</i>
	<ul style="list-style-type: none"> • Invited: “Intelligent Proximity Sensors”, Somnath Mukherjee, RB Technology, MILPITAS, CA, USA. • Invited: “A Novel Multilayer/3D Technology for Advanced Microwave and Millimetre-wave Wireless Circuits and Systems”, Kamal Samanta, University of Leeds, UK. • MI_C_MMT_3_5133: “Equivalent Circuit Modeling of Dual-slot antenna for terahertz application”, Gunapandian Paulraj, B. Manimegalai. • MI_C_MMT_4_3053: “Compact Dual-Band Bandpass Filter Using Concentric Stepped Impedance Resonator”, Manimala Pal, Biswajit Sarkar, Pankaj Sarkar, Rowdra Ghatak. • MI_C_MMT_6_7338: “An Approach to Analyze Planar Microstrip Circuits with Complementary Split Ring Resonator at the Ground Plane using Finite-Difference Time -Domain Method”, Santanu Dwari. • MI_C_MMT_7_7442: “A Ka-Band Double Balanced Upconverter MMIC For Space Application”, Abhay Jain, Pritam Sinha, R. S. Sharma, A.N.Bhattacharya • MI_C_MMT_13_5987: “A high order (x10) planar active frequency multiplier at 1.5GHz for satellite applications”, Jyotsna Ladkani, Akhil,, Jayesh Thakkar • MI_C_MMT_17_4387: “Fabrication of High Dielectric Constant and Low Loss X Band Ceramic Waveguide Window for High Power Applications”, S.Bashaiah, Pramod K. Sharma K C James Raju. • MI_C_CIS_7_8668: “Design and Development of a Hand-held RFID Reader for Recording Attendance”, Subhabrata Mazumder, Vineet Kumar Rakesh, Tapas Samanta

1.00 PM – 2.00 PM	LUNCH
Parallel Oral (Short) Presentations of Poster Papers	
2.00 PM – 3.20 PM (M2)	Hall A: B R Nag Hall <i>Chair : Susmita Sur Koley</i>
	See ANNEXURE I
2.00 PM – 3.20 PM (M2)	Hall B: A K Choudhury Hall <i>Chair :Sajal K Paul</i>
	See ANNEXURE II
2.00 PM – 3.20 PM (M2)	Hall C: M K Dasgupta Hall <i>Chair: Iti Saha Misra</i>
	See ANNEXURE III
3.20 PM – 4.30 PM	TEA BREAK & Poster Viewing at Hyatt Lawn (<i>only Posters listed in ANNEXURE I, II and III</i>)

<p>4.30 PM – 6.00 PM (M3)</p>	<p style="text-align: center;">Plenary Talk Session <i>Chair: W. M. Boerner</i> (Joint Halls)</p>
	<ul style="list-style-type: none"> • “Wireless Communications Research: the Next Two Decades”, U. Madhow, University of California, Santa Barbara, USA • “Radio Communication, Radio Astronomy and Space Science”, S. Ananthakrishnan, University of Pune, India
<p>6.00 PM – 7.00 PM</p>	<p style="text-align: center;">BREAK</p>
<p>7.00 PM</p>	<p style="text-align: center;">Cultural Programme</p>
<p>8.00 PM</p>	<p style="text-align: center;">Banquet Dinner</p>

December 18, 2012: Tuesday

8.00 AM – 9.00 AM	Registration
9.00 AM – 10.30 AM (T1)	Plenary Talk Session <i>Chair: S. Anathakrishnan</i> (Joint Halls)
	<ul style="list-style-type: none"> • “Review on PPLN Waveguide-based Photonic Processing for Phase-coded Signals in New Generation Optical Networks”, Antonio Malacarne, Antonella Bogoni, Emma Lazzeri, Gianluca Berrettini, CNIT, Pisa, Italy. • “Rough-fuzzy Image Analysis: Granular Mining”, Sankar Pal, ISI, Kolkata, India.
10.30 AM – 11.00 AM	TEA BRAEK
Parallel Technical Oral Sessions	
11.00 AM – 12.45 PM (T2)	Hall A: B R Nag Hall <i>Chair :Richard Hogg</i>
	<ul style="list-style-type: none"> • Invited: “III-V Nanowires for Optoelectronic Applications”, H.H. Tan, N. Jiang, Y.H. Lee, D. Saxena, P. Parkinson, Q. Gao, L. Fu and C. Jagadish, Australian National University, Canberra, Australia. • Invited: “Study of light Propagation in Photonic and Plasmonic Crystals through Fourier Image Spectroscopy”, M. López-Garcí, Univ. of Bristol, UK. • T2_A_OLT_22_476: “Design of Flexible Photonics-Based RF Transmitter and Receiver for Future Mobile Networks”, Paolo Ghelfi and Antonella Bogoni. • T2_A_OLT_30_3356: “Adjustable gain controlled SOA for optical burst receiver”, Ipsita Sengupta, Abhirup

	<p>Das Barman.</p> <ul style="list-style-type: none"> • T2_A_OLT_38_310: “All-Optical Regeneration of Phase Modulated Signal Using a Vertical Cavity Semiconductor Saturable Absorber”, Lokanath Mishra, Prasanta Kumar Datta.
11.00 AM – 12.45 PM (T2)	<p>Hall B: A K Choudhury Hall <i>Chair : I. Glover</i></p>
	<ul style="list-style-type: none"> • Invited: ” Emerging Technological Challenges in Spectrum Management”, D. C. Pande, LRDE, DRDO, India. • T2_B_CRC_6_4094: “Performance Evaluation of a New Semi-Orthogonal Spreading Code in an AWGN Channel”, Arnab Shashi Hazari, Simita Kundu, Abhijit Chandra. • T2_B_CRC_9_7520: “Extended Data Rate Prediction for Cognitive Radio using ANFIS with Subtractive Clustering”, Shrishailayya M Hiremath, Sarat Kumar Patra, Amit Kumar Mishra. • T2_B_CRC_10_4443: “Modeling a IF Double Sampling Bandpass Switched Capacitor $\Sigma\Delta$ADC with a Symmetric Noise Transfer Function for WiMAX/WLAN”, Pankaj Kumar Jha, Ashudeb Dutta, Nithin Kumar Y.B., Shiv Govind Singh. • T2_B_CRC_13_1276: “Design of a MIMO geometry for high capacity and full coverage mm-wave system”, Tommaso Cella, Pål Orten. • T2_B_CRC_15_206: “Cognitive Approach for Target Detection”, Amit Agarwal, Soumyasree Bera , Arun Kumar Singh, Samarendra Nath Sur, Debasish Bhaskar, Rabindranath Bera. • T2_B_CRC_17_2591: “Monitoring Threshold Cryptography based Wireless Sensor Networks with Projective Plane”, Haimabati Dey, Raja Datta.
11.00 AM – 12.45 PM (T2)	<p>Hall C: M K Dasgupta Hall <i>Chair :Antonella Bogoni</i></p>
	<ul style="list-style-type: none"> • Invited: “A Novel Proposal of Chipless RFID Using Layered Metal Patches”, Goutam Chakraborty, Iwate Prefectural University, Japan • Invited: “Chipless RFID: Revolution in Identification in the new millennium”, Nemai C Karmakar, Monash University, Australia • T2_C_ADC_1_3099: “On an Investigation of the Session Initiation Protocol”, M. H. Assaf, M. Williams, S. R.

	<p>Das, S. N. Biswas.</p> <ul style="list-style-type: none"> • T2_C_ADC_3_7200: “On the Implementation of a Intellectual Property Protection based on Information Hiding”, Abhishek Basu, Rabiul Mallick, Susmita Sur and Subir Kumar Sarkar. • T2_C_TEA_4_5857: “Simulation of the Encryption of NetFlow Packet Capturing System using IPSec”, Amzari Jihadi Ghazali, Waleed Al-Nuaimy, Asoke K Nandi
12.45 PM – 1.00 PM	Group Photo at Hyatt Lobby
1.00 PM – 2.00 PM	LUNCH
Parallel Oral (Short) Presentations	
2.00 PM – 3.00 PM (T3)	Hall A: B R Nag Hall <i>Chair: Somnath Sarkar</i>
	See ANNEXURE IV
2.00 PM – 3.00 PM (T3)	Hall B: A K Choudhury Hall <i>Chair : TBD</i>
	See ANNEXURE V
2.00 PM – 3.00 PM (T3)	Hall C: M K Dasgupta Hall <i>Chair : TBD</i>
	See ANNEXURE VI
3.00 PM – 4.30 PM	TEA BREAK & Poster Viewing at Hyatt Lawn (<i>only Posters listed in ANNEXURE IV, V and VI</i>)

Parallel Invited Talk Sessions

<p style="text-align: center;">4.30 PM – 5.30 PM (T4)</p>	<p style="text-align: center;">Hall A: B R Nag Hall <i>Chair :Sunanda Dhar</i></p> <ul style="list-style-type: none"> • Invited: “Waveguide based Quantum Dot Spin Devices for On-chip Quantum Information Applications”, Ruth Oulton, Univ. of Bristol • Invited: “Photonic Crystal Surface Emitting Lasers”, Richard Hogg, The University of Sheffield, UK.
<p style="text-align: center;">4.30 PM – 5.30 PM (T4)</p>	<p style="text-align: center;">Hall B: A K Choudhury Hall <i>Chair :TBD</i></p> <ul style="list-style-type: none"> • Invited: “Terahertz Science, Technology, and Communication”, Goutam Chattopadhyay, Jet Propulsion Laboratory, California Institute of Technology, USA. • Invited: “Radio Science and Wireless Communications for the Smart Grid”, I. A. Glover, J. M. R. de Souza Neto, S. A. Bhatti, J. S. da Rocha Neto, M. F. Vieira, R. Atkinson, M. Judd and J. J. Soraghan, Engineering University of Strathclyde, Glasgow, UK.
<p style="text-align: center;">4.30 PM – 5.30 PM (T4)</p>	<p style="text-align: center;">Hall C: M K Dasgupta Hall <i>Chair :Malay Kundu</i></p> <ul style="list-style-type: none"> • Invited: “Image Processing using Quadratic Volterra Filters”, Sanjit K. Mitra, University of California, Barbara, California. • Invited: “Adaptive Blind Equalization Based on the Minimum Entropy Principle”, Asoke K. Nandi, Univ. of Liverpool, UK.

December 19, 2012: Wednesday

8.00 AM – 9.00 AM	Registration
Parallel Technical Oral Sessions	
9.00 AM – 10.30 AM (W1)	Hall A: B R Nag Hall <i>Chair :Ranjan Gangopadhyay</i>
	<ul style="list-style-type: none"> • Invited: “Application-specific Microstructured Specialty Optical Fibers: An Emerging Platform for Exotic Fiber Designs”, Bishnu P. Pal, IIT Delhi, India. • WI_A_OLT_03_3237: “All Optical Microwave / Millimeter Wave Frequency Division”, Taraprasad Chattopadhyay, Prosenjit Bhattacharyya, Sujit Das. • WI_A_OLT_10_3985: “A Multimode Interference Star Coupler with S-Bend Waveguide”, S. K. Raghuwanshi, Santosh Kumar. • WI_A_OLT_16_4565: “Digital Holomicroscopy for Nanometer Depth Resolution”, Sonali Chakraborty, Sanjukta Sarkar, Kallol Bhattacharya • WI_A_OLT_20_9403: “Efficient Parabolic Similariton Generation by Third Order Dispersion Compensation”, Debasruti Chowdhury, Navonil Bose, Mousumi Basu, Sampad Mukherjee, Dipankar Ghosh • WI_A_OLT_33_4471: “Suppression of Stimulated Brillouin Scattering using Optimization Techniques”, Himansu Shekhar Pradhan, Prasant Kumar Sahu.
9.00 AM – 10.30 AM (W1)	Hall B: A K Choudhury Hall <i>Chair :Sudakshina Kindu</i>
	<ul style="list-style-type: none"> • Invited: “Bio-inspired Algorithms for Optimal Feature Subset Selection”, Basabi Chakraborty, Iwate Prefectural University, Japan. • WI_B_MEV_8_2194: “Planarization of Metal Layers in a Chip based on Voronoi Diagram”, Debasri Saha, Susmita Sur-Kolay. • WI_B_MEV_9_3667: “Dynamic Characteristics of Vibratory Gyro-accelerometer”, Payal Verma, Ram Gopal,

	<p>Sandeep Kumar Arya</p> <ul style="list-style-type: none"> • WI_B_MEV_11_4176: “A Novel Method for Delay Analysis of CMOS Inverter with On-Chip RLC Interconnect Load”, Vikas Maheshwari, S. Mazumdar, Rajib Kar, D. Mandal and A. K.Bhattacharjee • WI_B_MEV_20_9228: “Study of Substrate Induced Strained–Si/SiGe Channel for Optimizing CMOS Digital Circuit Characteristics”, Susanta Sen, Sanatan Chattopadhyay, Bratati Mukhopadhyay. • WI_B_MEV_L1: “An Efficient High Performance Parallel Algorithm to yield Reduced Wire Length VLSI Circuits”, Swagata Saha Sau, Rajat Kumar Pal.
9.00 AM – 10.30 AM (W1)	<p>Hall D: A N Dawn Hall <i>Chair :S. K. Sarkar</i></p>
	<ul style="list-style-type: none"> • Invited: “Future Perspectives of SAR Polarimetry with Applications to Multi-parameter Fully Polarimetric POLSAR Remote Sensing & Geophysical Stress-Change Monitoring”, W. M. Boerner, University of Illinois at Chicago, USA • Invited: “Space Weather Effects on the Performance of Satellite-based Communication Systems”, Archana Bhattacharyya, Indian Institute of Geomagnetism, India • WI_D_RSS_2_5350: “Advanced High Speed Parallel Frame Synchronizer for High Data Rate Indian Remote Sensing Satellite Series”, R Srinivas, L.Nithyanandan, P.V.V.Subba Rao, P.Naveen Kumar, G.Umadevi • WI_D_RSS_3_7255: “Satellite and ground base observation of VLF emissions at low latitudes”, Uma Pandey, O. P. Singh, Birbal Singh.
10.30 AM – 11.00 AM	TEA BREAK
Parallel Technical Oral Sessions	
	<p>Hall A: B R Nag Hall <i>Chair :A. K. Kar</i></p>
	<ul style="list-style-type: none"> • Invited: “Nano-Structured Metal-Semiconductor-Metal Photo-Detectors for Enhanced Light Absorption”, Narottam Das, Farzaneh Fadakar Masouleh, and Hamid Reza, Curtin Univ. Australia. • W2_A_OLT_6_3941: “Influence of Chalcogenide Glass on Surface Plasmon Resonance based Sensor Design in

<p>11.00 AM – 1.00 PM (W2)</p>	<p>Near Infrared Region using Admittance Loci Method”, Kaushik Brahmachari, Mina Ray</p> <ul style="list-style-type: none"> • W2_A_OLT_8_312: “All-optical Conversion Scheme from n to 2n Line Decoder Using Micro-ring Resonators”, J.N.Roy, J.K.Rakshit, T. Chattopadhyay • W2_A_OLT_12_338: “Threshold Base Current and Light Power Output of Symmetric and Asymmetric Multiple Quantum-Well Transistor Lasers”, Rikmantra Basu, Bratati Mukhopadhyay, Prasanta Kumar Basu • W2_A_OLT_13_8932: “Correcting Beam Astigmatism in Laser Diode by the use of Single Anamorphic GRIN Lens”, Md Asraful Sekh, N Sood Viswas, S K Sarkar, A Basuray • W2_A_OLT_31_3478: “Optically Controlled Rat-race Coupler on Silicon Substrate”, Avanish Bhadauria, Anil K Saini, J. Akhtar • W2_A_OLT_35_331: “Design of a Compact SOI Polarization Rotator for Mid-IR Application”, Ajanta Barh, Bishnu P. Pal, R. K. Varshney, B. M. Azizur Rahman • W2_A_OLT_L1: “Performance Analysis of OFDM Transmission over 800 kms Using Mid-link Optical Phase Conjugation and All Raman Amplification”, Upma Rai, Ranjan Gangopadhyay, Sumanta Gupta.
	<p style="text-align: center;">Hall B: A K Choudhury Hall <i>Chair :Basabi Chakrabarty</i></p>
<p>11.00 AM – 1.00 PM (W2)</p>	<ul style="list-style-type: none"> • W2_B_TEA_1_386: “Effective Classification of Radiographic Medical Images Using LS-SVM and NSCT based Retrieval System”, Manish Chowdhury, Sudeb Das, Malay Kumar Kundu • W2_B_TEA_3_7018: ” Performance Analysis and Simulation of IIR Anti-Notch Filter with various structures for Gene Prediction Application”, S.Barman (Mandal), S.Biswas, M.Roy, S.Das • W2_B_TEA_10_1900: “Group Theory based Reversible Logic Synthesis”, Kamalika Datta, Indranil Sengupta, Hafizur Rahaman • W2_B_TEA_14_4172: “A Security Enhancement Approach in Quantum Cryptography”, Akash Shrivastava, Manvendra Singh • W2_B_TEA_15_8827: “Modeling of IR-Drop Induced Delay Fault in CNT and GNR Power Distribution Networks”, Debaprasad Das, Hafizur Rahaman

	<ul style="list-style-type: none"> • W2_B_TEA_18_5606: “An Improved Time Adaptive Ant System”, Abhishek Paul, Sumitra Mukhopadhyay • W2_B_TEA_L2: ” Retrieval of Hidden Infected Region using Biomedical Image Watermaking for Tele-diagnosis to Ensure Better Treatment”, Kaushik Pal, Gautam Ghosh, Mahua Bhattacharya
11.00 AM – 1.00 PM (W2)	<p style="text-align: center;">Hall D: A N Dawn Hall <i>Chair :Goutam Chattopadhyay</i></p> <ul style="list-style-type: none"> • Invited: “Radio Environment Characterization for Radio Communication and other Applications in India”, S. K. Sarkar, NPL, India. • W2_D_APS_3_3669: “Omni-Directional Printed Antenna Array for MIMO Application”, Chandan Kumar Ghosh, Bappaditya Mandal, Susanta Kumar Parui. • W2_D_APS_6_3340: “Application of Synthetic Storm Technique to Predict Time Series of Rain Attenuation from Rain Rate Measurement for a Tropical Location”, Dalia Das, Animesh Maitra • W2_D_APS_7_8954: “Design of Drive Control System for High Efficiency Compact Ground Station Antenna for Remote Sensing Satellites”, Heera Singh R, BCS Rao, B. Rami Reddy, M. Satyanarayana • W2_D_APS_12_4839: “Performance of DOA Based Adaptive Beamforming for TDSCDMA-4G Cellular Networks”, Anindya Kundu, Sukanta Roy, Susanta Kumar Parui • W2_D_APS_15_5840: “Ultra-wideband Coplanar Waveguide-fed Hexagonal Slot Antennas with WLAN Band Rejection”, Tapan Mandal, Somdotta Roy Choudhury, Santanu Das • W2_D_APS_17_7835: “Synthesis of Discrete Amplitude-only Linear Array Antenna With Minimum Side Lobe Level Using Iterative Fast Fourier Transform”, Shishir Kumar Singh, Gautam Kumar Mahanti, Harikumar Pillai • W2_D_APS_18_1423: “Resonance Characteristics of the Slots of a Reduced Height Planar Waveguide Slot Array”, Rintu Kumar Gayen, Sushrut Das.
1.00 PM – 2.00 PM	LUNCH

Parallel Technical Oral Sessions

<p style="text-align: center;">2.00 PM – 4.00 PM (W3)</p>	<p>Hall A: B R Nag Hall <i>Chair :Bishnu Pal</i></p>
	<ul style="list-style-type: none"> • Invited: ““Ultrafast Laser Inscription - A New Technology for Photonic and Biophotonic Devices”, Ajoy K. Kar, Heriot-Watt Univ., Scotland, UK. • W3_A_OLT_14_2199: ” GeSn/SiGeSn RCE Photodetectors : A comparative study based on Franz-Keldysh Effect and Quantum Confined Stark Effect”, Vedatrayee Chakraborty, Bratati Mukhopadhyay, P.K.Basu. • W3_A_NEP_2_1322: ” Effects of Width of the Quantum Well on the Shift in Transition Energy with Operating Current in In_xGa_{1-x}N/GaN Quantum Well Diodes”, Siddhartha Panda, Partha Pratim Bera and Dipankar Biswas. • W3_A_NEP_8_7378: ” Optical Studies on AlGa_N Bulk Films, Quantum Wells and Quantum Dots”, Pallabi Pramanik, Sayantani Sen, Anirban Bhattacharyya, T.D. Moustakas • W3_A_NEP_6_4402: “Estimation of Process-Induced Variations in Double-Gate Junctionless Transistor”, Ratul Kumar Baruah, Roy P. Paily. • W3_A_TEA_22_2047: “Analysis of Mixed CNT Bundle Interconnects: Impact on Delay and Power Dissipation”, Manoj Kumar Majumder, B. K. Kaushik, S. K. Manhas.
<p style="text-align: center;">2.00 PM – 4.00 PM (W3)</p>	<p>Hall B: A K Choudhury Hall <i>Chair :Samar Chakrabarty</i></p>
	<ul style="list-style-type: none"> • Invited: “Evolution to New Generation Network”, Somnath Maity, BSNL, Kolkata, India. • Invited: Ashutosh Diwvedi, Agilent Technologies, India. • W3_B_CRC_18_8710: “Selection of Optimal Transmission Time in Cognitive Radio Network for Efficient VoIP Performance”, Tamal Chakraborty, Iti Saha Misra and Salil Kumar Sanyal • W3_B_CRC_20_974: “Two New Quasi-Orthogonal Space-Time Block Codes with 3-Time Slots for LTE-Advanced”, Narendra Singh Thakur, Rinku Bhatia, Satendra Singh Thakur • W3_B_CRC_24_7529: “An Affine Projection Algorithm Based DFE with Set-Membership Filtering”, Ramesh Chandra Mishra, Ratnajit Bhattacharjee, Abhijit Mitra • W3_B_CRC_26_5187: “Carrier and Symbol Recovery using Digital Phase Locked Loop in Severely Faded

	<p>Nakagami-m Channels”, Basab Bijoy Purakayastha, Kandarpa Kumar Sarma</p> <ul style="list-style-type: none"> • W3_B_CIS_14_2929: “Analysis and Measurement of High Power Vacuum-Tube RF Transmitters: Matrix Method”, H. K. Pandey, A. Chakrabarti, K. P. Ray.
<p>2.00 PM – 4.00 PM (W3)</p>	<p>Hall D: A N Daw Hall <i>Chair :Goutam Chakrabarty</i></p>
	<ul style="list-style-type: none"> • W3_D_APS-27_6515: “A Microstrip Patch Antenna for Biomedical Application at 2.45GHz”, Shashi Ketan Samal, Ashudeb Dutta, S Pradeep Reddy, Santanu Dwari. • W3_D_APS_30_3610: “A Compact Triangular SRR Loaded CPW Line and Its Use in Highly Selective Wideband Bandpass Filter for WiMAX Communication System”, Asit Kumar Panda, K. Satyabrat Sahu, Rabindra K.Mishra • W3_D_APS_32_959: “Ultrawideband (UWB) Antenna Design for Cognitive Radio”, Peshal B. Nayak, Sudhanshu Verma, Preetam Kumar. • W3_D_RSS_7_5942: “1 to 3 GHz Wideband Low Noise Amplifier Design”, Abhay P. Kulkarni, S. Ananthakrishnan • W3_D_RSS_8_5527: “Neural Network Based TEC Model Using Multistation GPS-TEC Around The Northern Crest of Equatorial Ionization Anomaly”, Dibyendu Sur, Aditi Das and Ashik Paul • W3_D_RSS_12_1941: “Generalized Mechanism of SOTDMA and Probability of Reception for Satellite-based AIS”, Anindya Harchowdhury, Kalyan Bandyopadhyay, Binay Kumar Sarkar, Amitabha Bhattacharya • W3_D_RSS_L1: “Performance Analysis of Adaptive, Power Control algorithm for Varying Target ”, C. R. Dutta, Abhirup Datta, Dola Gupta, S. K. Chakraborty • W3_D_RSS_L2: “Nowcasting of Tropical Rain using Dual Frequency Atmosphere Brightness Temperatures at Kolkata”, Sourabh Das, Rohit Chakraborty, Shamitaksha Talukdar, Animesh Maitra.
<p>4.00 PM – 4.30 PM</p>	<p>TEA BREAK</p>
<p>4.30 PM – 5:00 PM</p>	<p>VALEDICTORY FUNCTION</p>

ANNEXURE I

M2_A_TEA-2-2529	On the Impact of Node Failure on Network Coverage in Wireless Sensor Network	Ashraf Hossain
M2_A_TEA-5-7170	Image Processing based Automatic Mask Alignment for Optical Lithography	Avishek Chowdhury, Anirban Bhattacharyya, Arpita Das
M2_A_TEA-11-4760	A Noise-Tolerant Framework for Aerial Images Classification Based on Gabor Energy Feature	Md. Abdul Alim Sheikh, S. Mukhopadhyay
M2_A_TEA-12-9793	MMBS of wireless images for ATM banking	S. Koteswari, P. John Paul, S. Indrani
M2_A_TEA-13-2883	Threshold Triplet Incorporated Scheduling of Storage Based Pigeons in Homing-Pigeon-Based Delay Tolerant Networks	Priyanka Das, Kavita Dubey, Tanmay De
M2_A_TEA-17-9476	Reversible Circuit Synthesis using Evolutionary Algorithm	Kamalika Datta, Indranil Sengupta, Hafizur Rahaman
M2_A_TEA-21-4344	Design and Simulation of MEMS based Thermally Actuated Positioning System	Dhiman Mallick, Pranay K. Podder, Anirban Bhattacharyya
M2_A_TEA-23-425	Comparison of Propagation Delay in Single- and Multi-layer Graphene Nanoribbon Interconnects	Manoj Kumar Majumder, Narasimha Reddy. K, B. K. Kaushik and S. K. Manhas
M2_A_TEA-24-9359	Optimized Delay and Power Performances for Multi-walled CNT	Manoj Kumar Majumder, Pankaj Kumar Das, B.

	in Global VLSI Interconnects	K. Kaushik and S. K. Manhas
M2_A_TEA-25-756	Design and Simulation of Micro-pump, Micro-valve and Micro-needle for Biomedical Applications	Pranay Kanti Podder, Dip Prakash Samajdar, Dhiman Mallick, Anirban Bhattacharyya
M2_A_CIS-4-5827	Performance Analysis of DE-optimized Multiplier-less Finite Impulse Response Data Transmission Filter	Abhijit Chandra, Sudipta Chattopadhyay
M2_A_CIS-5-1503	Universal Filter Using Operational Transresistance Amplifier	Mourina Ghosh, Sajal K. Paul, Rajeev Kumar Ranjan
M2_A_CIS-6-9999	New First Order Multifunction Filter Employing Operational Transresistance Amplifier	Khushi Banerjee, Ashish Ranjan, Sajal K. Paul
M2_A_CRC-1-3851	Performance of Cooperative Spectrum Sensing in Hoyt Fading Channel under Hard Decision Fusion Rules	Srinivas Nallagonda, Aniruddha Chandra, Sanjay Dhar Roy, Sumit Kundu
M2_A_CRC-2-1376	Performance of Cooperative Spectrum Sensing Using an Improved Energy Detector in Fading Channels	Srinivas Nallagonda, Sanjay Dhar Roy, Sumit Kundu

ANNEXURE II

M2_B_EDM-7-3565	Electron Mobility and Energy Relaxation Rate in GaAs/GaAlAs Superlattice	Aniruddha Ghosal, Arindam Biswas
M2_B_EDM-10-7147	Drift and Temperature Compensation Scheme for an Intelligent Ion-sensitive Field Effect Transistor Sensory System	M.P.Das, M.Bhuyan

M2_B_EDM-11-2743	Parabolic double quantum well structures: study of multisubband electron mobility	Trinath Sahu, Ajit K. Panda, Sangeeta Palo
M2_B_EDM-16-2273	Effect of flatband voltage and surface field on the MOS capacitance under triangular potential well approximation	Chaitali Chakraborty
M2_B_EDM-19-1864	Millimeter-Wave and Noise Properties of Si~Si _{1-x} Ge _x Heterojunction Double-Drift Region MITATT Devices at 94 GHz	Suranjana Banerjee, Aritra Acharyya, J. P. Banerjee
M2_B_EDM-20-6189	Temperature Transient Effect on the Large-Signal Properties and Frequency Chirping in Pulsed Silicon DDR IMPATTs at 94 GHz	Aritra Acharyya, J. P. Banerjee, Suranjana Banerjee
M2_B_EDM-24-6678	Effect of Polysilicon Gate Doping Concentration Variation on MOSFET Characteristics	Rajesh Dutta Sudakshina Kundu
M2_B_EDM-25-1692	A Study on the Performance of Stress Induced p-channel MOSFETs with Embedded Si(1-x)Ge(x) Source/Drain	Kunal Sinha, Hafizur Rahaman Sanatan Chattopadhyay
M2_B_EDM-28-5205	Dynamic Performance of Si/SiGe Heterostructure IMPATT Diode at W-Band	Pravash Ranjan Tripathy, Sishir Kumar Choudhury, Moumita Mukherjee, Shankar Prasad Pati
M2_B_EDM_29_5230	Performance Improvement of La ₂ O ₃ / p-GaAs MOS Capacitor by using Si Passivation Layer	Anindita Das, Sanatan Chattopadhyay, Goutam Kumar Dalapati
M2_B_EDM-33-40	Analog/RF Performance Evaluation of Nanoscale Non-overlap SOI MOSFETs with High-k Stack on Spacer	Indra Vijay Singh, M. Shah Alam
M2_B_EDM-34-2509	Low Power 6T-SRAM A Comparative Study of Different Architecture in 32nm Technology using Microwind	Saurabh and P. Srivastava

M2_B_EDM-35-6127	Simulation to Study the Effect of Variation of Oxide Thickness and Substrate Doping on DIBL in MOSFET	Subhradip Das, Sudakshina Kundu
M2_B_EDM-36-5708	GaN/AlGaN Based Complementary p+- p--p-n+ ATT-Device for Application in THz Imaging	Moumita Mukherjee, P.R.Tripathy, S P Pati
M2_B_EDM-L1	A simple analytical model of silicon on insulator tunnel FET	Sayan Kanungo, Hafizur Rahaman, Parthasarathi Gupta, Parthasarathi Dasgupta
M2_B_EDM-L3	Numerical Computation of Eigenenergy and Intersubband Transition Energy of GaAs TriangularNanowire Embedded in Al _x Ga _{1-x} As Rectangular Wire	Arpan Deyasi, S. Bhattacharya, N. R. Das
M2_B_MEV-1-4196	Low Power SRAM Memory System using Low Leak Asymmetric SRAM Cell	Vijayalaxmi C. Kalal, Ravikumar K. I., Rajani H. P., S. Y. Kulkarni
M2_B_MEV-2-2365	Design of Multifunction Biquad Structure using OTA	Mousumi Bhanja, Kasturi Ghosh, Baidyanath Ray
M2_B_MEV-12-3896	Estimation of Peak Crosstalk Noise Voltage for VLSI RC Global Interconnects	Vikas Maheshwari, Joydeep Rakshit, Rajib Kar, D. Mandal, A. K. Bhattacharjee
M2_B_MEV-13-8219	Crosstalk Noise Estimation for Generic RLC Trees with Capacitive Coupling	V. Maheshwari, K. Khare, Rajib Kar, D. Mandal, A. K. Bhattacharjee,

M2_B_MEV-14-1681	Within-Clock Power Gating Architecture Implementation to Reduce Leakage	Sambhu Nath Pradhan, Debanjali Nath, Priyanka Choudhury, Abhishek Nag
M2_B_MEV-16-8444	Voltage Controlled Current Starved Delay Cell for Positron Emission Tomography specific DLL based high precision TDC implementation	Sabir Ali Mondal, Sourav Pal, Hafizur Rahaman, Pradip Mondal,
M2_B_MEV-17-9716	A Novel Process Variation Tolerant Wide Fan-In Dynamic OR Gate with Reduced Contention	Vikas Mahor, Akanksha Chouhan, Manisha Pattanaik
M2_B_MEV-19-4684	A Novel Delay Minimization Technique For Low Leakage Wide Fan-In Domino Logic Gates	Akanksha Chouhan, Vikas Mahor, Manisha Pattanaik
M2_B_MEV-21-1519	Two New Techniques to Reduce Gate Leakage at 65 nm Technology	Angshuman Chakraborty, Sambhu Nath Pradhan

ANNEXURE III

M2_C_APS-2-8546	Reduction of Cross-polarization Radiation of E-shaped Microstrip Antenna Array using Spiral-Ring Resonator	Chandan Kumar Ghosh, Bappaditya Mandal, Biswarup Rana, Susanta Kumar Parui
M2_C_APS-5-5833	Sierpinski Fractal Binomial Trapped Planar Monopole Antenna for UWB Communication	Abhik Gorai, Shashank Verma, Anirban Karmakar, Rowdra Ghatak
M2_C_APS-9-519	A compact super ultra-wideband (UWB) printed monopole antenna	Pritam Singh Bakariya, Santanu Dwari
M2_C_APS-10-9049	Compact Circularly-Polarized Microstrip Patch Antenna on Reactive Impedance Substrates	Indrasen Singh, Vijay Shanker Tripathi, Sudarshan Tiwari
M2_C_APS-28-5941	Novel Design of Ultra Wideband Vertical Slotted Triangular (VST) Sheet Antenna	Anuj Y. Modi, Aarti Gehani
M2_C_APS-13-5619	Signal-To-Noise Ratio Improvement In Sub-Array Combiner	Kishan Sharma, Manu Gaurav, Anand Dambal
M2_C_APS_14_7428	Half-Mode Substrate Integrated Waveguide Fed T-Shaped Slot Array Antenna	Biswarup Rana, Susanta Kumar Parui, Arabinda Roy, Chandan Kumar Ghosh
M2_C_APS-20-1820	Studies on the effect of Mutual Coupling on Network and Resonance Properties of Broad-Wall Longitudinal Slot Antenna	Rintu Kumar Gayen, Sushrut Das
M2_C_MMT-5-3029	An UWB Band Pass Filter with a Notch Band using Stub Loaded Multi-Mode Resonator	Sharmili Adhikari, Manimala Pal, Ishita Rakshit Pankaj Sarkar, Rowdra Ghatak
M2_C_MMT-9-2772	SAR Analysis Using SFDTD and Hybrid FDTD	Md. Faruk Ali, Sudhabindu Ray

M2_C_MMT-10-921	A Diode Based Millimeter Wave Frequency Doubler	Bijit Biswas, Arun Kumar
M2_C_MMT-11-9437	Low loss and High Isolation Ka-band SPDT switch	G. A. Kumar, Arun Kumar
M2_C_MMT-12-3601	Design and Analysis of Solidly Mounted Resonator Utilising a Conductive Bragg Reflector to Improve Q and Resonant Frequency	Abhilash Amsanpally, Srikanth Enjamuri, K C James Raju
M2_C_MMT-14-2874	Compact Stop Band Filter Based on Double Tuned Rectangular Split Ring Defected Microstrip Structure For ISM Band Applications	Somdotta Roy Choudhury, Tapan Mondal, Susanta Kumar Parui, Santanu Das
M2_C_MMT_15_7565	A simple method to avoid interference of unwanted mode during tuning of a cavity resonator	Sanjay Mondal, Salil Kumar Biswas
M2_C_MMT-16-8197	Design of a Bandpass Filter using Multimode Resonators for Ultra-Wideband Application	Pratik Mondal, Arabinda Roy, S.K.Parui
M2_C_MMT-18-4952	Design of Resonator Based Ultra Wideband Bandpass Filter in Low Temperature Cofired Ceramic Technology	CH L N Pavan, K C James Raju

ANNEXURE IV

T3_A_OLT-1-2979	Design Optimization of Erbium-Doped Fiber Ring Laser For C and L Band Amplification Incorporating Chirped Fiber Bragg Grating	Ricky Anthony, Rini Lahiri, Sambhunath Biswas
T3_A_OLT-7-9100	Long-range and short-range surface plasmon resonance in coupled plasmonic structure using bi-metallic nanofilms	Mahua Bera, Mina Ray
T3_A_OLT-9-5008	All-optical XOR/XNOR Logic Gate Using Micro-ring Resonators	J.K.Rakshit, J.N.Roy, T.Chattopadhyay
T3_A_OLT-17-9106	All-optical Binary Coded Decimal to Binary Converter with the help of Terahertz Asymmetric Demultiplexer based Switch	Arunava Bhattacharyya, Dilip Kumar Gayen, Tanay Chattopadhyay
T3_A_OLT-15-2379	Free Carrier Absorption in Sn based Group-IV Alloys	Vedatrayee Chakraborty, Bratati Mukhopadhyay, P.K.Basu
T3_A_OLT-18-5161	Performance Analysis of Doppler Shift Induced Optical Filtering and Inband Crosstalk Penalties in Intersatellite Link Optical Switching Nodes	Abhirup Das Barman, Alak Halder
T3_A_OLT_21_4051	Propagation Characteristics of Single Mode Step Index Linear and Non-Linear Optical Fiber Involving Improved Lorentzian	Pratap Kumar Bandyopadhyay, S.N.Sarkar

	Approximation For The Fundamental Mode	
T3_A_OLT_24_545	All Optical 2-bit Carry Look Ahead Adder Using Mach-Zehnder Interferometer	Indranil Jana, Dilip Gayen
T3_A_OLT-36-7570	2D Matrix Switching with Optical Phase Conjugation in Gold Nanoparticle Doped-alumina (Au:Al ₂ O ₃): a Theoretical Study	Tanay Chattopadhyay, Panchatapa Bhowmik, Jitendra Nath Roy
T3_A_OLT-28-4510	Equivalent Circuit Model of UTC Photodiode	Abhirup Das Barman, Senjuti Khanra
T3_A_NEP_1_3390	Effect of Strain on the Band Offsets of III-V Quantum Wells: In _x Ga _{1-x} P/GaAs, In _x Ga _{1-x} As/ Al _{0.2} Ga _{0.8} As and In _x Ga _{1-x} N/GaN	Tapas Das, Siddhartha Panda, Partha Pratim Bera, Dipankar Biswas
T3_A_NEP-4-4345	Mn doped ZnSe/ZnS Core-Shell Quantum Dot as Low Temperature Nano Spin- Filter	Saikat Chattopadhyay, Pratima Sen, Joshep Thomas Andrews, Pranay Kumar Sen
T3_A_NEP-5-4358	Effect of Temperature and Kink Energy in Multilevel Digital circuit using Quantum dot Cellular Automata	Ratna Chakraborty, Debashis De, Angshuman Khan, Chiradeep Mukherjee, Sayak Pramanik
T3_A_NEP-7-381	Influence Of Geometrical Shape Of Quantum Dot on Field Emission	Shubhasree Biswas Sett, Chayanika Bose

ANNEXURE V

T3_B_CRC-8-7933	An advanced MIMO OFDM-DSSS system for high speed wireless data communication technology	Sayan Dey, Pinaki Ghosh, Smita Datta
T3_B_CRC-11-577	Energy Efficient Layered Cluster Based Hierarchical Routing Protocol with Dual Sink	Aditi Sen, Madhuparna Das Gupta, Debashis De
T3_B_CRC-12-5111	Cooperative Spectrum Sensing in Cognitive Radio Network with Power Control	Abhijit Bhowmick, Sanjay Dhar Roy and Sumit Kundu
T3_B_CRC-14-1583	Effect on the capacity of a cognitive radio based central access network in different fading distributions.	Ashoka Chakravarthi Mahipathi, Sanjay Dhar Roy
T3_B_CRC-16-5107	Placing the 'Third' Node: An Energy Efficiency Perspective	Biswajit Ghosh, Anirban Ghosh, Nilanjan Biswas, Aniruddha Chandra
T3_B_CRC-19-2126	Dynamic Improvement of Spectral Efficiency and Signal Strength using Novel Cyclic Prefix Selection	Budhaditya Bhattacharyya, Iti Saha Misra, Salil Kumar Sanyal
T3_B_CRC-22-4173	Synchronous Overloaded System for the Uplink of cellular CDMA with Unequal chip Delay Spreading (UCDS)	Amiya Singh, Poonam Singh
T3_B_CRC-23-9057	ANN Based Adaptive Beamforming for Faded Wireless Channels	Barnalee Sarma, Kandarpa Kumar Sarma
T3_B_CRC-25-8792	Spectral Agility of NC-OFDM Transmission for Dynamic Spectrum Access	Rajan Kapoor, Preetam Kumar
T3_B_ADC-2-7549	ECG Signal Classification using Wavelet Transform and Back	Hari Mohan Rai, Anurag Trivedi

	Propagation Neural Network	
T3_B_ADC-4-4832	Design Graph Multi-Dimensional Data Model of a Data Warehouse and conversion of its equivalent Object – Oriented Schema	Sk. Abdul Rahim, Baisakhi Chakraborty
T3_B_ADC-8-9600	Multiple ANN-Blocks based Biometric Identification	Md.Sajjad Hossain, Kandarpa Kumar Sarma
T3_B_TEA-20-2021	Design and performance evaluation of an sensor based on Electrical Impedance Tomography	Deborshi Chakraborty, Madhurima Chottopadhyay
T3_B_ADC-10-412	A (k,n) Secret Image Sharing Scheme with Reduced Computation Complexity	Amitava Nag , Sushanta Biswas, Partha Pratim Sarkar, Debashree Chanda (Sarkar)

ANNEXURE VI

T3_C_RSS-5-5950	Analysis of Performance of QAM system when subjected to Sharpened Raised Cosine Filter	Mahua Pal, Sudipta Pal
T3_C_RSS-9-4014	A Simplified Analytical and Simulation Framework for Evaluating BER of RS Coded Digital Signal in Rician Fading Channels	Anirban Chattopadhyay, Aniruddha Chandra, Anup Kr. Bhattacharjee
T3_C_RSS-10-5279	Study of Aerosol and cloud properties of convective regimes: observed by CAIPEEX, MODIS and simulated by WRF model	Kaustav Chakravarty, Parthasarathi Mukhopadhyay
T3_C_RSS-11-3310	Simultaneous perturbation observed on VLF and atmospheric vertical electric field for Sumatra earthquake on 11th April 2012	Abhijit Choudhury, Anirban Guha, Barin Kumar De, Rakesh Roy
T3_C_APS-21-6930	Study of Rectangular Microstrip Patch Antenna with Hexaferrite Cavity	Rekha Sharma, R.S.Meena
T3_C_APS-25-4928	2D Defected Ground Structures in Microstrip Line	Chandra Shekhar Gautam, Avanish Bhadauria
T3_C_APS-11-7497	Performance Comparison of Different Adaptive Beamforming Algorithms in Smart Antennas	SK Imtiaj, Iti Saha Misra, Rathindranath Biswas
T3_C_APS-29-3216	Design Analysis of a Wide Band Slotted Microstrip Antenna with Improve Performance	Arnab Chowdhury, Sanyog Rawat
T3_C_APS-33-8451	A CPW-fed Printed Monopole Antenna using Circular CSRR for WCDMA/WiMAX/WLAN Applications	Suryanarayan Patra, Kumar Satyabrat Sahu, Asit K.Panda

T3_C_APS-34-5032	Studies on Compact, Multiple Resonant Frequency Selective Surface (FSS) by Cutting Different Novel Shaped Slits Within Rectangular Shaped Patch	Surajit Mondal, Sourav Nandi, Tanumay Mondol, Shwetanki Singh, Partha Pratim Sarkar
T3_C_APS-36-6596	Design of a wide band frequency selective surface (FSS) for multiband operation of reflector antenna	Gobinda Sen, Susanta Mahato, Tanumay Mandal, Surajit Mondal, Shuvodip Majumdar, Partha Pratim Sarkar
T3_C_CIS-9-9929	Voltage –Fed Trans Z Source Inverter in PV Solar Panel	Amin Mehdipour, Hossein Majdinasab, Hessam Khazraj, Adulapuram Vinay Kumar
T3_C_CIS-11-7394	A Generalized Current Mode First Order Filter Using Single Current Controlled Differential Difference Current Conveyor	Ashish Ranjan, Sajal K. Paul,
T3_C_CIS-12-5479	Analytical Modeling of Crosstalk Effects in Coupled Copper Interconnects in Deep Sub Micron Technology	Manodipan Sahoo, Hafizur Rahaman
T3_C_CIS-13-4237	Transformer Coupled Novel Noise Cancellation Technique for Subthreshold UWB LNA	A R Aravinth Kumar, Ashudeb Dutta, Shiv Govind Singh