

ICCIA 2011

DETAILED SCHEDULE

December 26, 2011

Opening Ceremony: Mini Auditorium

Time	Programme	
9.00-10.00	Registration & High Tea	
10.00 – 11.45	Welcome Address	Prof. (Dr.) Joyanta Kumar Roy, Principal, Narula Institute of Technology and Program Chair ICCIA-2011
	Speech by Distinguished Guests	Sardar Jodh Singh, Chairman JIS Group & Chief Patron ICCIA2011, Prof.(Dr) Sabyasachi Sengupta, Vice-Chancellor, WBUT, & Patron ICCIA-2011, Prof.(Dr) Ajoy K Roy, Vice Chancellor, BESU & Conference Chair ICCIA-2011, Prof.(Dr) Asoke Ranjan Thakur, Vice-Chancellor, WBSU & Conference Chair ICCIA-2011, Prof. (Dr) Siddhartha Datta, Pro-Vice Chancellor, JU & Conference Chair ICCIA-2011, Prof.(Dr) Ajoy Chakraborty, Vice Chancellor, BIT, Mesra, Guest of Honour, ICCIA-2011, Mr. Taranjit Singh, Managing Director, JIS Group & Patron ICCIA-2011, Prof.(Dr) S.M.Chatterjee, Ex V.C., BESU and Guest of Honour ICCIA-2011, Prof.(Dr) Asit Guha, Director(Academic) JIS Group, Patron ICCIA-2011, Dr.Swarup Mondal, Chairman, IEEE Communications Society, Calcutta Chapter, & Organizing Chair, ICCIA-2011, Prof.(Dr) Rabin Nandi, Ex-Professor, Jadavpur University, Guest of Honour, ICCIA-2011, Prof.(Dr) Pranab Kumar Banerjee, Advisor, JIS Group & Organising chair ICCIA-2011, Prof.(Dr.) A. B. Samaddar, Advisor (Academic), JIS Group & Guest of Honour ICCIA-2011, and other dignitaries.
	Inaugural Publication of The Journal	
11.45-12.00	Group Photo	
12.00-12.45	Keynote address	Prof.(Dr.) Goutam Chakraborty, Professor & Head of Intelligent Informatics Lab, Iwate Prefectural University, Japan
12.45-13.30	Special address	Mr. Ramendu Chattopadhyay, Chairman cum Managing Director, Tower Group of Companies, Kolkata.
13.30-14.30	Lunch	

Plenary Speech: Seminar Hall

Time	Venue	Topic	Speaker
14.30-15.00	Seminar Hall 1	LASER from Hi-Speed Data Communication To Magic	Mr. Manick Sorcar
	Seminar Hall 2	Towards Development Of A Suitable Data Model For Archival Of Trusted Communication	Prof.(Dr.) Aditya Bagchi

Technical Session: Instrumentation & Control, Hall 1

Time	Paper ID	Topic	Speaker	Chair
15.00-15.15	146	Online Identification of Fractional Order Models with Time Delay : An Experimental Study	Saptarshi Das, Nijam Ud-Din Molla, Indranil Pan, Anindya Pakhira and Amitava Gupta	Prof.(Dr.)D.C. Patranabis
15.15-15.30	52	Control of Nuclear Reactor Power with Thermal-Hydraulic Effects via Fuzzy PI λ DP μ Controllers	Saptarshi Das, Indranil Pan, Basudev Majumder, Shantanu Das and Amitava Gupta	
15.30-15.45	51	E-Tongue Based Classification and Authentication of Mineral Water Samples following Principal Component Analysis and Sammon's Nonlinear Mapping	Palash Kundu and Madhusree Kundu	
15.45-16.00	155	Fuzzy Logic Based System to Diagnose Internal Faults of Power Transformer	U. Mohan Rao and Vijay Praneeth Reddy	
16.00-16.15	159	Problems Associated with Active and Reactive Power Measurement using a Novel Technique and Its Remedy	Rumpa Saha	
16.15-16.30	163	Water hammer protection in water supply system: a new approach with implementation	Joyanta.Kumar.Roy, Prosanta.Kumar.Roy & P. Basak,	
16.30-16.45	164	Chemical Dosing Calculator for Water Industry	Joyanta Kumar Roy, Joydeep Roy and Sumit Nandi	

Technical Session: Communication & Network Security, Hall 2

Time	Paper ID	Topic	Speaker	Chair
15.00-15.15	92	Constant Aspect Ratio based (2, 2) Visual Cryptography through Meaningful Shares (CARVCMs)	Jyotsna Kumar Mandal and Subhankar Ghatak,	Prof.(Dr.) Aditya Bagchi
15.15-15.30	26	Framework for design with Leon3 system and testing with SHA-1 algorithm	Madhulika Mohanty, Deepanjana Deb, Aravind Konidala, Ashish Mishra and Solomon R. Kota	
15.30-15.45	116	CCSDS Complied Data Handling System for Mini Satellites	Chayan Dutta, Lalitkrushna Thakar and Jeeja K H.	
15.45-16.00	147	Improved cluster based route discovery algorithm for Ad-hoc networks	Chandrima Chakraborty	
16.00-16.15	111	Information and communication technology in Foreign Exchange Management	Sushil K Pareek, Prof. Dr. Ashok K Saha & B.K.Ghosh.	
16.15-16.30	96	Generation and Fabrication of authenticated song signal through preserving balance ratio of song's components	Uttam Mondal and Jyotsna K Mandal	
16.30-16.45	142	Stochastic Seed Based Cryptographic Technique Using Dual Formula Key	Rajdeep Chowdhury, Somsubhra Gupta and Arijit Saha	
17.00	Tea			

December 27, 2011

Plenary Speech: Seminar Hall

Time	Venue	Topic	Speaker
9.30-10.00	Seminar Hall 1	A Review on Hazards in Microwave Cooking and Cell-phone Communication	Prof. (Dr.) Pradip Kumar Sadhu
	Seminar Hall 2	Soft Computing	Prof.(Dr.) Jyotsna K Mandal
10.00-10.15	Tea Break		

Technical Session: Microwave & Antenna, Hall 1

Time	Paper ID	Topic	Speaker	Chair
10.15-10.30	94	CAD Model To Compute The Input Impedance Of Cavity Backing Triangular Patch Antenna For Wireless Applications	Manotosh Biswas and Archana Shukla	Prof.(Dr.) Pradip Kumar Sadhu
10.30-10.45	90	Fast and accurate CAD model to compute the input impedance of circular patch antenna used for mobile communication	Sourav Banik and Manotosh Biswas,	
10.45-11.00	82	Novel DMS based UWB Antenna with band rejection characteristics	Sourav Moitra, Sayantani Roy, Chandan Kumar Ghosh and Susanta Paru	
11.00-11.15	73	Analysis of DC Properties of SDR IMPATT Structure by Double Iterative Method Designed at	Arpan Deyasi and Swapan Bhattacharyya	
11.15-11.30	38	Analysis of a novel shaped microstrip patch antenna with multiple resonating frequencies	Arnab Pattanayak, Dr. Debasree Sarkar, and Dr.Partha Pratim Sarkar.	
11.30-11.45	10	CGIs dedication procedure and method on IE equipment in NPPs	Su Cheol Moon and Kern Joong Kim	

Technical Session: Soft Computing, Computational Intelligence, Image Processing & Applications, Hall2.

Time	Paper ID	Topic	Speaker	Chair
10.15-10.30	71	Hierarchical Clustering based Facial Expression Analysis from Video Sequence	Soma Mitra, Chandrani Saha and Apurba Das	Prof.(Dr.) Jyotsna K Mandal
10.30-10.45	23	A Full-Reference Image Quality Metric for Objective Evaluation in Spatial Domain	Akshat Jain and Vikrant Bhateja	
10.45-11.00	139	A Modified PSNR Metric based on HVS for Quality Assessment of Color Images	Prateek Gupta, Priyanka Srivastava, Satyam Bhardwaj and Vikrant Bhateja	
11.00-11.15	88	A Genetic Algorithm based Steganography in Frequency Domain (GASFD)	Amrita Khamrui and Jyotsna Kumar Mandal	
11.15-11.30	130	Bio-Inspired Computational Technique to Multiobjective Optimal Planning of Electric Power Generation and Dispatch	Debjani Chakraborti, Papun Biswas and Anirban Mukhopadhyay	

11.30-11.45	150	Measures of Sensitivity and Uncertainty with the Fuzzy Model of Solute Transport through Groundwater	Debabrata Datta	
11.45-12.00	87	Authentication of images through non convoluted DCT	Madhumita Sengupta and Jyotsna Kumar Mandal	
12.30-13.30			Lunch	

Technical Session: Bio Engineering, Biometrics & Applications, Hall 1

Time	Paper ID	Topic	Speaker	Chair
13.30-13.45	43	Measuring Human Biopotentials to Ascertain Parameters for Health	Aditi Bhattacharya, Dibyendu Basu, Bhaswati Goswami and Ratna Ghosh	Prof.(Dr.) Joyanta K Roy
13.45-14.00	154	Binary Coding of Arrhythmic Beats for Generation of Simplified Classification Rule	Saurabh Pal, Samiul alam and Mandhuchhanda Mitra	
14.00-14.15	101	Time Plane ECG Feature Extraction Using Hilbert Transform, Variable Threshold and Slope Reversal Approach	Sourav Mukhopadhyay, Madhuchhanda Mitra and Sucharita Mitra	
14.15-14.30	75	A new technique for the classification of premeditative and meditative states	Anilesh Dey, Sayan Mukherjee, Sanjay Palit, D.K. Bhattacharyya and D.N.Tibarewala	

Technical Session: Cognitive Radio, ICT, HCI & Applications, Hall 2

Time	Paper ID	Topic	Speaker	Chair
13.30-13.45	76	A New Fuzzy Rule Based Power Management Scheme for Spectrum Sharing in Cognitive Radio	Anilesh Dey, Sushovan Biswas and Saradindu Panda	Dr. Swarup Mondal
13.45-14.00	48	Do Malaysians use ICT Tools When Listened to their Preferred Music?	Salwani Mohd Daud, Salina Daud, Zainab Rasol and Norihan Abu Hassan	

14.00-14.15	74	Implementation and Performance Analysis of an Efficient FFT Pruning Algorithm for NC-OFDM	Niladri Mandal and Himadri Mandal
14.15-14.30	114	On the Coexistence of Cognitive Radio and Cellular Networks: An Outage Analysis	Sanjay Dhar Roy and Sumit Kundu
14.30-14.45	106	Throughput Maximization Problem for Random Allocation of Channels in a Cognitive Radio Network	Subhasree Bhattacharjee, Pijush Basak, Arnab Gupta, Amit Konar and Suman Bhattacharjee
14.45-15.00	128	Designing a Human Computer Interface using Laser Track Pad (LTP)	Arghya Ghosh, Chandan Garai, Prasun Hajra and Pranam Paul

Tutorial Presentation: Seminar Hall

Time	Venue	Speaker	Topic	Chair
14.45-15.45	Hall 1	Prof.(Dr.) Joyanta K Roy	Roll of Information and Communication Technology in the Modern Management of Water Works	Prof. Amlan Chakraborty
	Hall 2	Prof. Debabrata Dutta	Fundamentals of Fuzzy Sets and its Application to Industrial Systems	Prof.(Dr.) Maitryei Kanjilal
15.45-16.45	Hall 1	Prof.(Dr.) Asish K Mukhopadhyay	Communication, Networking and Convergence.	Prof. Amlan Chakraborty
	Hall2	Prof.(Dr.) Aniruddha Chandra	Energy Conservation in Wireless Communication Systems with Relays	Prof.(Dr.) Maitryei Kanjilal
16.45-17.00	Tea Break			

LASER SHOW & CULTURAL PROGRAM: 17.00-20.30 MAIN AUDITORIUM

Time	Event	Event by
17:00-18:00	Extravagenga Laser Show “Magical Moments”	Manick Sorcar Production, directed by Manick Sorcar
18:00-18:15	Break	
18:15- 18:30	Inaugural Dance	Satabdi Ballet Troup, Directed by Satabdi Bose and Debasis Bose
18: 30 – 19:15	Dance Drama “ Incredible India”	Students and Faculties of Narula Institute of Technology
19:15- 19.30	Recitation	Smt. Gopa Roy
19.30- 20:30	Recitation & Tagore Songs	Smt. Bratati Bandyopadhyay & Sri Kingsuk Roy

December 28, 2011

Plenary Speech: Seminar Hall

Time	Venue	Topic	Speaker
9.30-10.00	Seminar Hall 1	Academic Research Practices in Communications Technology	Prof.(Dr.) Debasis Saha
	Seminar Hall 2	Recent Developments in IC Manufacturing Technologies	Prof.(Dr.) Arijit Roy
10.00-10.30	Tea Break		

Technical Session: Mobile Computing, Communication & Networking, Hall 1

Time	Paper ID	Topic	Speaker	Chair
10.30-10.45	125	Energy Efficient Clustering Hierarchy Protocol for Wireless Sensor Network	Anindita Ray and Debashis De	Prof.(Dr.) Debasis Saha
10.45-11.00	126	A Novel Utilization of Wireless Sensor Network in Smart Homes, Reviewing its Combination with Modern Cellular Network	Seyed-Mahdi Kazempour-Radi and Mohammad-Hussein Rafiei-Sakhaei	
11.00-11.15	22	An Efficient Delay Elimination Protocol for Mobile Ad Hoc Networks	Tanu Preet Singh, Prof. R.K Singh and Vishal Sharma	
11.15-11.30	115	Replacement Strategies for Minimizing Maintenance Cost and Maximizing Sensor Network Lifetime	Raju Dutta, Sajal Saha and Asish Mukhopadhyay	
11.30-11.45	85	On the Impact of Energy Dissipation Model on Characteristic Distance in Wireless Networks	Ashraf Hossain	
11.45-12.00	15	AutoVeCoN: Automatic Vehicle Collision Notification and Intelligent Police Deployment System for Radio	Budhaditya Majumdar and Sumana Basu	
12.00-12.15	124	Micro-NEMO++: An Efficient Micro-Mobility Protocol for Network Mobility	Manoj Kumar Rana, Avik Mitra and Bhaskar Sardar	

Technical Session: VLSI, DSP and Devices, Hall 2

Time	Paper ID	Topic	Speaker	Chair
10.30-10.45	149	An Efficient Quadrature Mirror Filter Design For Audio Signal Processing Applications	Supriya Dhabal, Srabani Chakraborty and Palaniandavar Venkateswaran	Prof.(Dr.) Samir Kumar Lahiri
10.45-11.00	24	Harmonics And Interharmonics Estimation Of A Passive Magnetic Fault Current Limiter Using Coiflet Wavelet Transform	Raju Patwary, Sabyasachi Datta and Soumyadeep Ghosh	
11.00-11.15	77	Comparative thermal noise analysis of DG MOSFET using SiO ₂ , SiC-SiO ₂ , Si ₃ N ₄ -SiO ₂ , SiO ₂ -Al ₂ O ₃ as dielectric layer	Suryadepta Dash and Saradindu Panda	
11.15-11.30	59	Evaluation of power efficient Adder and	Subhankar	

		Multiplier circuits for FPGA based DSP application	Bhattacharjee, Sanjib Sil, Biswajit Basak and Amlan Chakrabarti	
11.30-11.45	01	FPGA Based Smart Card Reader Design	Bipin Chandra Mandi, P. Venkateswaran and R. Nandi	
11.45-12.00	165	Dynamics of Electromigration Induced Void in Submicron Cu Interconnects	Arijit Roy	
12.30-13.30			Lunch	

Poster Session: Seminar Hall Lobby

Time	Paper ID	Topic	Author	Chair
13.30-15.00	153	Automata testing of web services performance optimization	G M Tere	Prof.(Dr) Asish Kumar Mukhopadhyay
	151	Spread spectrum image watermarking using binary watermark with digital design	Navonil Chatterjee, Debasis Mondal and Jayasree sharma	
	41	Spectrum sensing method based on the spatial spectrum for cognitive radio systems	Papiya Dutta	
	37	A compact frequency selective surface comprising of array of square patch with rectangular slits	Poulami Samaddar, Partha pratim sarkar and Debasree Sarkar	
	136	Investigation of single gate and dual gate In _{0.49} Ga _{0.51} P/Al _{0.24} Ga _{0.76} As/In _{0.2} Ga _{0.8} As PHEMT at 30	Rini Lahiri and Ricky Anthony	
	127	Information loss, Doppler shift and fading effect in MANET for different routing Protocols.	Rumpa Mukherjee, Rajib Banerjee and Sarit Pal	
	95	CAD model to predict the effect of radome on the input impedance characteristics of rectangular patch antenna for wireless applications	Manotosh Biswas and Mousumi Sen	
	47	A CPW feed triple band printed antenna for WIMAX/WLAN and X-band applications	Ujjal Chakraborty, Barun Majumder, Santosh Chowdhury and Anup Bhattacharyya	
	166	A Technique of Volume Indication in an Oil Tank	Anirban Nandi	
15.00-15.45	Panel discussion			
15.45-16.30	Valedictory Session			
	Vote of thanks			
16.30	Refreshment			
