# **CALCON 2020**

### **Session Details**

Keynote 1: Silver Bloom I (Day 1, 11.00 am - 12.00 pm) – ECE Track

Speaker: Prof. Souvik Mahapatra, IIT Bombay

Lecture Title: "Introduction to CMOS Transistor Scaling & Reliability"

Session Chair: Prof. P. K. Basu, Formerly of Dept. of Radio Physics & Electronics, University of Calcutta, Kolkata

Keynote 2: Silver Bloom II (Day 1, 11.00 am - 12.00 pm) – EE Track

Speaker: Prof. Chandan Chakraborty, IIT Kharagpur

Lecture Title: "Renewable Energy Integration: Challenges & Opportunities"

Session Chair: Prof. Samarjit Sengupta, Center for Green Energy & Sensor Systems, IIEST, Shibpur, Howrah

Keynote 3: Umami (Day 1, 11.00 am - 12.00 pm) – CSE Track

Speaker: Prof. Sanghamitra Bandyopadhyay, ISI Kolkata

Lecture Title: "Computer Science Methods to Solve Problems in Biology: Basics & Advancements"

Session Chair: Prof. Mita Nasipuri, Dept. of Computer Science & Engg., Jadavpur University, Kolkata

ECE Sess	ECE Session 1: Silver Bloom I (Day 1, 12.00 pm - 1.30 pm) - Signal Processing Algorithms		
Session Cl	Session Chair: Prof. Deb Ranjan Sarkar, VECC, Kolkata		
Paper ID	Paper Title	Authors	
17	Improved Stopband Rejection in Compact Coupled-Line Bandpass Filter by Transmission Zero Reallocation	Tarun Das and Sayan Chatterjee	
27	An Experimental Approach Towards Adaptive Beam-Shaping using SMI Algorithm in Indoor Fading Environment	Sk Imtiaj, Sandipan Bhattacharya, Ayon Seal and Iti Saha Misra	
35	Robust Variable Power Fractional LMP Based Channel Estimation For MIMO Fading Wireless Systems	Madhusmita Sahoo and Harish Kumar Sahoo	
55	A Compact Very Narrow Band Coaxial Cavity Resonator Filter at X-band with SMA Connector Feed	Dhruba Das, Bijit Biswas, Arun Kumar Gande and Sibabrata Mondal	
127	Kaiser Window Based Side Lobe Level Suppression in 3D Beamforming for Massive MIMO Structure	Tanmoy Kundu, Arijeet Ghosh, Iti Saha Misra and Salil Kumar Sanyal	
158	An Axis Based Mean Filter for Removing High- Intensity Salt and Pepper Noise	Anindita Kundu, Sumanta Banerjee, Chittabarni Sarkar and Souptik Barman	
200	Location sensing of wheel based movable object with low cost sensors in GPS denied environment	Sanjib Mitra and Santu Sarkar	

# EE Session 1: Silver Bloom II (Day 1, 12.00 pm - 1.30 pm) - Power Systems

# Session Chair: Prof. Kesab Bhattacharya, Dept. of Electrical Engg., Jadavpur University, Kolkata

	<b>5</b> · 1	56 · · · · · · · · · · · ·
Paper ID	Paper Title	Authors
31	A new Quantum-class topper optimization	Debasis Acharya, Dushmanta Kumar Das and
	based fractional order proportional integral	Abhishek Srivastava
	power system stabilizer design to damp out	
	low frequency oscillations in power systems	
40	Multi-dimensional ANN application for State	Shubhranshu Tiwary, Jagadish
	classification of Power System	Pal and Chandan Kumar Chanda
106	Performance Improvement of Three Phase	Nazma Hayat, Sriparna Roy Ghatak, Samita
	Unbalance Distribution System Using DG and	Rani Pani and Smaranika Mishra
	DSTATCOM	
162	Genetic Algorithm-based Optimal Placement	Dhruba Kumar and Partha Sarathee Bhowmik
	of STATCOM in Pre-islanding and Post-	
	islanding Condition	
165	SMS Based Load Flow Monitoring and Analysis	Prashant Choudhary and Jitendra Nath Bera
	for Theft Location Detection in Rural	
	Distribution Systems	
180	Finding of the Probable Size and Location of	Chandan Jana, Mousumi Janabala and
	Distributed Generation in Unbalanced	Swapan Goswami
	Distribution System with Demand Uncertainty	
186	Holomorphic Embedding Load Flow Modelling	Ujjal Sur, Amitava Biswas, Jitendra Nath Bera
	of DSTATCOM for Active Distribution	and Gautam Sarkar
	Networks	

## Comp Session 1: Umami (Day 1, 12.00 pm - 1.10 pm)

#### Session Chair: Prof. Nandini Mukherjee, Dept. of Computer Science & Engg., Jadavpur University, Kolkata

## 1A: Algorithms

Paper ID	Paper Title	Authors
28	A Study on Reversible Rules of Probabilistic Cellular Automata	Anupam Pattanayak and Subhasish Dhal
44	Object Mapping from Disparity Map by Fast Clustering	Aritra Mukherjee, Soumik Sarkar and Sanjoy Kumar Saha
50	Citation convergence of academic conference papers	Agniv Adhikari and Abhik Mukherjee
95	A Robust PPG Onset and Systolic Peak Detection Algorithm Based On Hilbert Transform	Abhishek Chakraborty, Deboleena Sadhukhan and Madhuchhanda Mitra
1B: Cloud	Computing & IOT	
61	A Digital Forensic Process Model for Cloud Computing	Sanghamitra De, Mridul Sankar Barik and Indrajit Banerjee
97	A New Global Routing Optimization Algorithm based on Pigeon Inspired Optimization	Subhrapratim Nath, Rabiraj Bandyopadhyay, Saptarshi Biswas, Jamuna Kanta Sing and Subir Kumar Sarkar

ECE Ses	ECE Session 2: Silver Bloom I (Day 1, 2.30 pm - 4.00 pm) - Electron Device Session Chair: Prof. Debashis De, MAKAUT		
Session			
120	Effect of Doped AlGaN Width Variation on Analog Performance of Dual Gate Underlap MOS-HEMT	Anindita Mondal, Sneha Ghosh, Akash Roy, Mousiki Kar and Atanu Kundu	
155	Fin Width dependent Threshold Voltage Modeling in AlGaN/GaN Fin shaped nano channel HEMT	Ashutosh Chakrabarty, Raghunandan Swain and Ajit Kumar Panda	
178	A Comparative Analysis of Analog Performance of an U-DG AlGaN/GaN MOS- HEMT Device with Hafnium based high-k dielectric as the gate oxide and an U-DG AlGaN/GaN Schottky-HEMT Device	Hrit Mukherjee, Rajanya Dasgupta, Mousiki Kar and Atanu Kundu	
183	Influence of GaN layer width to AlGaN layer width Ratio on Analog Performance Enhancement of an Underlap DG AlGaN/GaN based MOS-HEMT Device	Upayan Chatterjee, Ananya Pal, Mousiki Kar and Atanu Kundu	
185	Studies on Security Threats in Waste Mobile Phone Recycling Supply Chain in India	Biswajit Debnath, Ankita Das, Sanchari Das and Abhijit Das	

26221011 01	Session Chair: Prof. Rajarshi Gupta, Dept. of Applied Physics, University of Calcutta, Kolkata		
Paper ID	Paper Title	Authors	
121	Indoor Optical Intercom System: Application of Visible Light Communication system for audio transmission using PDM	Basudeb Das, Tapas Maity and Saswati Mazumdar	
123	Fully Active Suspension Design using Super Twisting Sliding Mode Control based on Disturbance Observer and Ensemble Kalman Filter	Leimapokpam Vidyaratan Meetei and Dushmanta Kumar Das	
125	Optimization Algorithm Based PID Controller Design for a Magnetic Levitation System	Soham Dey, Jayati Dey and Subrata Banerjee	
129	Particle Swarm Optimization based PID- Controller Design for Volume Control of Artificial Ventilation System	Ajila T Yimchunger, Debasis Acharya and Dushmanta Kumar Das	
132	Optimized Thermocouple Temperature Sensor using 555 Timer and ANN Based Linearization	Debarpan Bhattacharya, P. P. Chandra, Biswajit Bhattacharya and Sugata Munshi	
136	Single-Phase Average Power Measurement Using Instantaneous Power Theory in a Fixed Point Processor	Dipankar Chatterjee and Suvarun Dalapati	
195	A Fault-Detecting and Motion-Sensing Wireless Light Controller for LED Lighting System	Vishwanath Gupta, Biswarup Basak and Biswanath Roy	

Comp Session 2: Umami (Day 1, 2.30 pm - 3.35 pm) - Pattern Recognition Session Chair: Prof. Debotosh Bhattacharjee, Dept. of Computer Science & Engg., Jadavpur University, Kolkata			
			Paper ID Paper Title Authors
38	Mutually Informed Correlation Coefficient (MICC) – a new Filter based Feature Selection method	Ritam Guha, Kushal Kanti Ghosh, Showmik Bhowmik and Ram Sarkar	
47	Circuit component detection in offline hand- drawn electrical/electronic circuit diagram	Archan Bhattacharya, Soham Roy, Navonil Sarkar, Samir Malakar and Ram Sarkar	
84	Applying Fourier Inspired Windows for Concept Drift Detection in Data Stream	Sumit Misra, Dipan Biswas, Sanjoy Kumar Saha and Chandan Mazumdar	
114	Rice Leaf Disease Classification using CNN with Transfer Learning	Shreya Ghosal and Kamal Sarkar	
142	Breast Lesion Segmentation in Ultrasound Images Using Deep Convolutional Neural Networks	Dipannita Ghosh, Amish Kumar, Palash Ghosal, Tamal Chowdhury, Anup Sadhu and Debashis Nandi	
151	HRV Performance Analysis in Photoplethysmography and Electrocardiography	Subhajit Bhowmick, Palash Kumar Kundu and Dharma Das Mandal	

ECE Ses	ECE Session 3: Silver Bloom I (Day 1, 4.00 pm - 5.30 pm) - Antenna		
Session (	Session Chair: Prof. Pradip Kumar Saha, Formerly of Dept. of Radio Physics & Electronics, University of Calcutta, Kolkata		
52	Dual-Band Minkowski Fractal Patch Antenna With Polarization Diversity	Arka Bhattacharyya, Amartya Banerjee, Sayan Chatterjee and Bhaskar Gupta	
56	Investigations on the Radiation Characteristics of a CPW-Fed Yagi-Inspired Strip Monopole Antenna	Sohini Banerjee, Amartya Banerjee, Sayan Chatterjee and Malay Gangopadhyay	
111	A Multi-functional Diversity Antenna with High Wideband Isolation	Jeet Banerjee, Suvajit Mallick and Rowdra Ghatak	
112	Response of Equatorial Ionization in Indian Longitudes to HSSW Driven Geomagnetic Storm	Dibyendu Sur, Jasmine Firdaus, Trisha Paul, Raktima Dutta and Chaitali Bhattacharyya Bhattacharyya	
144	An Orthogonally Oriented Multiband MIMO Antenna for WLAN, C-Band and X-Band Wireless Applications	Jeet Banerjee, Sumit Bhattacharya, Arjyaman Choudhury, Anushka Biswas, Rupam Paul, Anirban Dutta and Rowdra Ghatak	
164	A Comparative study between Rectangular, Circular and Annular Ring Shaped Microstrip Antennas	Jayanta Bhattacharya and Sudipta Maity	
187	Design of Reconfigurable Planar Yagi-Uda Antenna for Dual Frequency Wireless Communication	Subham Kundu and Kaushik Patra	

# EE Session 3: Silver Bloom II (Day 1, 4.00 pm - 5.30 pm) - Power Electronics

## Session Chair: Prof. Biswarup Basak, Dept. of Electrical Engg., IIEST, Shibpur, Howrah

Paper ID	Paper Title	Authors
91	Loss Comparison of Various Unidirectional	Sayani Chatterjee, Debranjan Mukherjee and
	Rectifiers for Medium Voltage Applications	Debaprasad Kastha
101	An Efficient G2V and V2G Converter Systems	Avishek Munsi, Piyali Pal and Sumana
	for EV Application	Chowdhuri
128	An Improved Buck-Boost Converter Suitable	Niraj Rana, Jayati Dey and Subrata Banerjee
	for PV Application	
169	Effect of Shifting Gate Pulse on Output Voltage	Nupur and Shabari Nath
	Ripple in Coupled SIDO Boost Converter	
204	A Transformerless Grid Interactive Converter	Anirban Chatterjee, Sindhunil Bhaumik,
	Topology for PV Based Micro Generator	Anisha Naskar, Susanta Ray, Debashis
		Chatterjee and Nikhil Mondal
209	Maximum Power Point Tracking of SPV Array	Archak Sadhukhan, Pritam Gayen and Shib
	for Phase Shifted PWM DC-DC Converter	Sankar Saha
210	Three-phase Sine Wave Inverter using Natural	Sukanya Dasgupta and Sujit K Biswas
	Harmonic Compensation	

## Comp Session 3: Umami (Day 1, 3.35 pm - 4.40 pm)

#### Session Chair: Prof. Diganta Saha, Dept. of Computer Science & Engg., Jadavpur University, Kolkata

### **3A: Pattern Recognition**

Paper ID	Paper Title	Authors
72	Human Activity Recognition based on	Dibyadip Chatterjee, Charu Arora, Saurajit
	Summarized Semi-detailed Frame Information and Contextual Features	Chakraborty and Sanjoy Saha
156	Identification of Cell-types based on the Pathway of Markers using Single-cell data	Ashmita Dey and Ujjwal Maulik
193	Extreme Learning Machine based Classification Of Tibetan Characters using CG based HOG features	Aritra Dey, Shyamali Mitra and Nibaran Das
197	Exploring the fractal nature in dynamics of crimes during recent Lok Sabha elections in West Bengal	Sayan Seal, Prasun Chail, Souvik Roy and Abhik Mukherjee
3B: Natura	al Language Processing	
15	Normalization of Numeronyms using NLP Techniques	Avishek Garain, Sainik Kumar Mahata and Subhabrata Dutta
188	Analyzing Large News Corpus Using Text Mining Techniques for Recognizing High Crime Prone Areas	Sumanta Mukherjee and Kamal Sarkar

ECE Ses	ECE Session 4: Umami (Day 1, 4.40 pm - 5.30 pm) - System Design		
Session	Session Chair: Dr. Tapas Chakravarty, TCS, Kolkata		
24	Realization of Adaptive Beamformer for Angle of Arrival Estimation using FPGA and Xilinx System Generator	Subhashree Samal, Harish Kumar Sahoo and Madhusmita Sahoo	
75	Prototype Design of An IoT Enabled Cost Efficient Portable Heart-Health Data Acquisition System	Arnab Maity and Iti Saha Misra	
87	An Energy Efficient 32 Bit Approximate Dadda Multiplier	Saurav Chanda, Koushik Guha, Santu Patra, Loukrakpam Merin Singh, Krishna Lal Baishnab and Prashanta Kumar Paul	
113	Controlled Speed Limiting System for Congestion Mitigation for Smart City Design	Sreya Ghosh and Iti Saha Misra	
160	Boundary Detection in Dynamic Wireless Sensor Networks using Convex Hull Techniques	Tapas Kumar Mishra, Jayadeep Sadhu and Arun Kumar	

ECE Session 5: Silver Bloom I (Day 2, 10.00 am - 11.20 am) - Wireless Networks

Session Chair: Prof. Animesh Maitra, Dept. of Radio Physics & Electronics, University of Calcutta,
Kolkata

Paper ID	Paper Title	Authors
19	Role of Different Spatial Point Processes on	Arijeet Ghosh, Tanmoy Kundu, Iti Saha Misra
	Network Densification towards 5G	and Salil Kumar Sanyal
	Development: A Coverage and Rate Analysis	
39	Content Driven Proportionate Channel	Sudipta Dey and Iti Saha Misra
	Allocation Scheme for Scalable Video over	
	Cognitive Radio Network	
73	Role of Reverberation Chamber in Wireless	Ardhendu Kundu, Kaushik Patra, Bhaskar
	Testing and Measurement with emphasis on	Gupta and Amirul I. Mallick
	Investigating Biological Effects	
86	QoS Analysis with Coverage, Speed and	Ayon Seal, Sandipan Bhattacharya and Iti
	Resources on Small Cells Cellular Networks	Saha Misra
135	Outage Analysis in Dual Hop Relay Network	Soumen Mondal, Sanjay Dharroy and Sumit
	with an Adaptive Energy Harvesting Scheme	Kundu
150	Improved Sparsity Aware Collaborative	Bijit Kumar Das and Arpan Mukherjee
	Spectrum Estimation for Small Cell Networks	
152	Analysis of a Dynamic Queuing Model for	Souptik Barman, Ayan Biswas and Anindita
	Secondary Users in Cognitive Radio Networks	Kundu

EE Session 4: Silver Bloom II (Day 2, 10.00 am - 11.20 am) - Hybrid Grid & Electric Vehicle				
Session Cl	Session Chair: Prof. Debashis Chatterjee, Dept. of Electrical Engg., Jadavpur University, Kolkata			
Paper ID	Paper Title	Authors		
8	Adaptive symbiotic organism search algorithm optimized 3DOF-PID controller for load frequency control of hybrid power system	Dipayan Guha, Provas Roy and Subrata Banerjee		
23	An Experimental Study on Enegry Management of Grid-Connected Hybrid PV- Battery-Fuel Cell System	Akshaya K Pati and N C Sahoo		
138	Comparative Analysis of Different Types of Power Transactions in Smart Grid	G Srinivasulu, N C Sahoo and P Balakrishna		
143	A Supervisory State of Charge and State of Power Management Control Strategy among Hybrid Energy Storage Systems through Thermal Exchange Optimization Technique	Subhashree Choudhury, Nikhil Khandelwal, Ankit Kumar, Anshika Shukla, Anshu Jha, Monalisa Mohanty and Taraprasanna Dash		
196	Charging Scheduling of Electric Vehicles (EV) in Probabilistic Scenario considering Grid-to- Vehicle (G2V) and Vehicle-to-Grid (V2G)	Sourav Das, Parimal Acharjee and Aniruddha Bhattacharya		
201	PV assisted Fuzzy based EV charge scheduling for demand side energy management: a case study	Soumya Ghorai, Deepanjan Majumdar, Tushar Jash and Susanta Ray		

Comp Session 4: Umami (Day 2, 10.00 am – 11.20 am) - Image Processing

•	Session Chair: Prof. Subhadip Basu, Dept. of Computer Science & Engg., Jadavpur University,
	Kolkata

Paper ID	Paper Title	Authors
26	Segmentation of Pap Smear images for Cervical Cancer detection	Hmrishav Bandyopadhyay and Mita Nasipuri
70	Removal of Salt and Pepper noise: a Game Theoretic Approach	Krishnendu Mukhopadhyay, Rajarshi Bose, Anwit Mondal, Suman Kumar Bera, Showmik Bhowmik and Ram Sarkar
130	Two Stage Semantic Segmentation by SEEDS and Fork Net	Aritra Mukherjee, Prithwish Jana, Sayak Chakraborty and Sanjoy Kumar Saha
177	Motion Based Video Skimming	Imran Alam, Devesh Jalan, Priti Shaw and Partha Pratim Mohanta
182	Rectification of Camera Captured Document Images using Component Analysis	Debanshu Banerjee, Pratik Bhowal, Suman Kumar Bera and Ram Sarkar
207	Superpixel and Density Based Region Segmentation Algorithm for Lung Nodule Detection	Amitava Halder, Saptarshi Chatterjee and Debangshu Dey

ECE Session 6: Silver Bloom I (Day 2, 11.45 am - 1.00 pm) - Microwave Devices & Systems			
Session Cl	Session Chair: Prof. Manojit Mitra, Dept. of Electronics & Tele Communication Engg., IIEST, Shibpur, Howrah		
Paper ID	Paper Title	Authors	
57	High-k Dielectrics on 20nm FDSOI FinFET: Study on Analog and RF Performance	G Nikhil, Pratyush Mohanty, Rajesh Saha and Soumyaranjan Routray	
96	A Multilayered Transition between SIW and ESIW	Souma Guha Mallick, Bijit Biswas, Sayan Chatterjee, G. Arun Kumar and Dipak Ranjan Poddar	
115	Reduction of Frequency Chirp in Fabry-Perot Semiconductor Laser Under Low Level Optical Injection	Meenakshi Chakraborty and Taraprasad Chattopadhyay	
141	Development of an FPGA based Indoor Free Space Optical (FSO) Communication System using 808 nm Infrared (IR) LASER Source	Tishya Sarma Sarkar, Bappaditya Sinha, Shibabrata Mukherjee, Indranuj Joardar and Saswati Mazumdar	
163	Impact of Source and Drain Underlap on Analog Performance of Double-Gate AIGaN/GaN MOS-HEMT	Shubham Kumar, Minnat Ali, Raushan Kumar, Rajrup Mitra, Atanu Kundu and Mousiki Kar	
199	Modes and Coupling in Six-Core hole-walled Optical Fiber	Sonali Basak, Santu Sarkar and Nikhil Ranjan Das	

Г

EE Session 5: Silver Bloom II (Day 2, 11.45 am - 1.00 pm) - Renewable Energy & Microgrid			
Session Cl	Session Chair: Prof. Chandan Kumar Chanda, Dept. of Electrical Engg., IIEST, Shibpur, Howrah		
Paper ID	Paper Title	Authors	
62	Performance Improvement of LFC using GOA based Fuzzy PD-PI Cascade Controller for Power System Coordinate with Renewable sources	Debasis Tripathy, Nalin Behari Dev Choudhury, Sadasiva Behera and Binod Kumar Sahu	
140	Performance Enhancement of PV Array under Partial Shading Condition by Modified BL Configuration.	Chidurala Saiprakash, Alivarani Mohapatra, Byamkesh Nayak and Sriparna Roy Ghatak	
148	A Critical Analysis for Microgrid Formation based on Hourly Load Growth and Available Renewable Energy	Nayan Manna, Ayandeep Ganguly and Arindam Kumar Sil	
174	Transient Disturbances and Islanding Detection in Micro Grid using Discrete Wavelet Transform	Sannistha Banerjee and Partha Sarathee Bhowmik	
194	A Renewable Energy Based Hybrid Autonomous Grid	Arpan Banerji, Reetwik Bhadra, Ayan Banerji, Ambarnath Banerji and Sujit K Biswas	
206	Dynamic and Transient State Analysis of Islanded Microgrid	Sindhura Gupta, Susovan Mukhopadhyay, Ambarnath Banerji and Sujit K. Biswas	

EE Session 6: Umami (Day 2, 11.45 am - 1.00 pm) - Electric Machines & Drives				
Session Cl	Session Chair: Prof. Sumana Chowdhuri, Dept. of Applied Physics, University of Calcutta, Kolkata			
Paper ID	Paper Title	Authors		
108	Design, Simulation & Thermal Analysis of an	Sayani Chatterjee, Ashesh Mandal, Suvarun		
	Interior Permanent Magnet Synchronous	Dalapati, Pabitra Halder and Kaushik		
	Motor for A Fork-lift Truck Application	Mukherjee		
109	Estimation of Alternator Rotor Angle by using	Mukesh Kumar and Affijulla Shaik		
	Synchronized Voltage and Current Phasors			
126	Control of Bifurcation in a PWM Controlled dc	Susmita Adhikary, Debashis Chatterjee and		
	Series Motor Drive	Krishnendu Chakrabarty		
153	Design and analysis of In-Wheel Motor for an	Sandeep Kumar Chawrasia, Chandan Kumar		
	Electric vehicle	Chanda and Sumit Banerjee		
202	Revisiting small signal analysis techniques on a	Soumya Ghorai and Susanta Ray		
	two area four machine power system network			
205	A Review on Diagnostic Techniques of Bearing	Arnab Das and Susanta Ray		
	Fault and its modeling in Induction Motor			

WIE Special Session: Silver Bloom (Day 2, 1.00 pm - 1.40 pm)

Speaker: Dr. Suparna Dhar, NSHM Knowledge Campus, Kolkata

Lecture Title: "Employing Data Analytics to Monitor Organization's Social Media Activity"

Session Chair: Prof. Iti Saha Misra, Dept. of Electronics & Tele Communication Engg. Jadavpur University, Kolkata

Student Panel Discussions: Umami (Day 2, 1.00 pm - 1.40 pm)

Topic: "Is India Ready for NexGen Technology?"

Session Chair: Mr. Sanket Sarkar

Industry Session: Silver Bloom (Day 2, 2.30 pm - 4.00 pm)

Speaker: Sanjeeb Sengupta, Check Point Software Technologies Ltd.

Lecture Title: "Cyber Security and its Proliferation into Industrial Control Systems"

Speaker: Indrajit Sanyal, Business Unit Digital Services, Ericsson

Lecture Title: *"5G & other Technology Options – from Customer Perspective"* 

Speaker: Pankaj Chawla, Palo Alto Networks

Lecture Title: "Take Back Control of DNS Traffic"

Session Chair: Mr. Sanjay Das, IT & Electronics, Govt. of West Bengal, Kolkata

Poster Session: Umami (Day 2, 2.30 pm – 4.00 pm)

Session Chair: Prof. Suparna KarChowdhury, Dept. of Electrical Engg., Jadavpur University, Kolkata

Paper ID	Paper Title	Authors
42	Modeling of an Efficient Sensing Strategy for Real Time Video Communication over Cognitive Radio Network	Sudipta Dey and Iti Saha Misra
63	Impact of Dielectric Pocket on the Performance of Double Gate TFET	Radhe Gobinda Debnath and Srimanta Baishya
76	PTT Based Portable Cuffless Systolic Blood Pressure Estimation	Ananda Chatterjee, Saurabh Pal and Madhuchhanda Mitra
82	A Study on the Noise Performance of an Si based IMPATT Device for different Junction Temperature	Rajarshi Dhar, S. J. Mukhopadhay and Monojit Mitra
94	Harmony Search based Adaptive Sliding Mode Control for Inverted Pendulum	Rajeev Ranjan Pathak and Anindita Sengupta
98	Performance Comparison Between 2×1 and 2×2 Corporate Feed Antenna Array in X-band	Sk Imtiaj and Sandipan Bhattacharya
117	Specific Absorption Rate Estimation for a Typical Hibiscus Flower Model as per ICNIRP Electromagnetic Guidelines	Nibedita Mukherjee, Ardhendu Kundu, Bhaskar Gupta and Monojit Mitra
175	WANN and ANN based Urban Load Forecasting for Peak Load Management	Ayandeep Ganguly, Kuheli Goswami and Arindam Kumar Sil