

TECHNICAL SESSIONS

Saturday, 16 December, 2017, 10:00 – 11:20

	SA1A: Power Systems Engineering Chair: Biswarup Das, IIT Roorkee Co-Chair: Premalata Jena, IIT Roorkee	SA1B: Computer Science & Engineering Chair: Manoj Misra, IIT Roorkee Co-Chair: Sugata Gangopadhyay, Sandeep Kumar, IIT Roorkee	SA1C: Communication & Information Technology Chair: Madhav J. Nigam, IIT Roorkee Co-Chair: Pyari Priya Mohan, IIT Roorkee	SA1D: Microelectronics & VLSI Chair: Sudeb Dasgupta, IIT Roorkee Co-Chair: Sanjeev Manhas, IIT Roorkee	SA1E: RF & Microwave Engineering Chair: Dharmendra Singh, IIT Roorkee Co-Chair: Nagendra P. Pathak, IIT Roorkee
1000 – 1010	SA1A-1 An Efficient Co-ordinated Control Scheme for Transient Stability Enhancement of DFIG based Wind Energy Conversion System Ashutosh Srivastava, Subhendu Sekhar, Shivundu Vats, Kalyan Chatterjee	SA1B-1 A new approach for upscaling document images for improving their quality Ram Krishna Pandey, Shishira R. Maiya, A. G. Ramakrishnan	SA1C-1 Feature Extraction and Classification of Speech Signal Using Hidden Markov-Gaussian Mixture Model (HM-GMM) for Driving the Rehabilitative Aids Abhishek Kushwaha, Uvanesh Kasiviswanathan, Shiru Sharma	SA1D-1 Selection of Switching Skills of the Power MOSFET in the Static Converter T.Halder	SA1E-1 ADMM Based LMS Algorithm For Constant Modulus Signals In Adaptive Beamforming Vignesh Ranganathan, K.A.Narayanankutty
1010 – 1020	SA1A-2 A Review on Issues and Coordination Strategies for Over Current Protection in Microgrid P Naveen, Dr. Premalata Jena	SA1B-2 Robust Classification of Abnormal Audio using Background-Foreground Separation Megha CK, Viswanath K. Reddy	SA1C-2 Fading Averaged-Spectral Efficiency Analysis of Average Interference-Constrained, Cooperative Device-to-Device Communication System B. Sainath, Rahul Gupta, Pratik Devikar	SA1D-2 An Area and Power Efficient 1-D 4x4 Integer DCT Architecture for HEVC Akshay Bhaskar, Jagannadha Naidu K	SA1E-2 Transmission Line Model for a Series fed Log-periodic Microstrip Antenna array Arjuna Muduli, Rabindra K Mishra
1020 – 1030	SA1A-3 Super Imposed Negative Sequence Power Based Islanding Detection Technique Phanindra Kumar.Ganivada, Dr.Premalata Jena	SA1B-3 Body Pose Estimation using a Single Camera Shubhobrata Bhattacharya, Anirban Dasgupta, Shubhobrata Bhattacharya, Aurobinda Routray	SA1C-3 Detection and Correction of Sampling-Time-Errors in an N-Channel Time-Interleaved ADC using Genetic Algorithm Chakravarthi M.V.N, Dr. Chandra Mohan Bhuma	SA1D-3 Dual-k HfO2 Spacer Bulk Planar Junctionless Transistor for Sub-30 nm Low Power CMOS Garike Ramarao, Ishan C. Ghosekar, Ganesh C. Patil	SA1E-3 Design and study of Cylindrical RF pill box window for 100 GHz BWO with Single side Tapered Output Coupler Ranjit Kumar Dutta, A R Choudhury, R K Sharma
1030 – 1040	SA1A-4 Optimal Control of Distributed Generation for Improved Security Constraint Management Jagadeesh Gunda, Sasa Djokic, Daniel Friedrich, Gareth Harrison, Andrew Scobie, Matthew Williams	SA1B-4 A Fast Algorithm for Enumerating Maximal Cliques in Large Scale Network Ranjan Kumar Behera, Ranjit Kumar, Abhishek Kesarwani, Santanu Kumar Rath	SA1C-4 Forward Resource Reservation with Mixed Approach of Burst Assembly for improvement of Average Packet Delay in OBS networks Anupam Soni, Amit Munjal, Harjeet Singh Sethi, Yatindra nath Singh	SA1D-4 A Novel Approach for Delay Variation Reduction in Domino Logic Gates using Keeper Circuit Shreyashi, Shuchi Nagaria, Ankur Kumar, R. K. Nagaria	SA1E-4 Polarization Based Tunable Filters Using Si Nanoantennas Vishal Vashistha, Andriy. E. Serebryannikov, Maciej Krawczyk

1040 – 1050	SA1A-5	SA1B-5	SA1C-5	SA1D-5	SA1E-5
	Shunt Compensation with Reduced DC Bus Voltage using Modulation Margin Controller Guddy Satpathy, Pranab Patnaik, Dipankar De	Hyperspectral Unmixing by Nuclear Norm Difference Maximization based Dictionary Pruning Samiran Das, Aurobinda Routray	Influences of van der Waals' force on dipoles reorientations in micro fibers Jia-Wei Wang, Yu-Chan Hu, Shao-Yang Yeh, Yu-Cheng Li, Yanyan Guo, Nan-Kuang Chen	A Robust Modeling of the Switching Personality of the MOSFET for the Inductive Load T.Halder	A compact planar CPW fed monopole antenna for Ultra Wideband applications Surajit Kundu, Sanjay Kumar Jana
1050 – 1100	SA1A-6	SA1B-6	SA1C-6	SA1D-6	SA1E-6
	Adaptive Relay Setting for Distribution System during Reconfiguration Tripti Gangwar, Dr. Saumendra Sarangi	Design and development of a large vocabulary, continuous speech recognition system for Tamil Madhavaraj A, A. G. Ramakrishnan	Energy Efficient Sensing, Transmitting Time and Transmission Power for Cognitive Radio Networks Meenakshi Awasthi, Madhav J. Nigam, Vijay Kumar	A High-Gain Sub-2nW OTA for Biomedical Application using 45nm CMOS Technology Aparna B N, Partha Ray	An efficient RF tracking technique with spread spectrum signal at sensitivity level Tarun Kumar Verma, Nagendra Prasad Pathak
1100 – 1110	SA1A-7	SA1B-7	SA1C-7	SA1D-7	SA1E-7
	Impact of intermittent wind and solar resources on the dynamics of power system under different loading conditions Pankaj Jood, S. K. Aggarwal, Vikram Chopra	Anchor Word Extraction Algorithm for Story Development of Narrative Texts Upasana Ghosh, Hariharan Ramasangu,	A Waste Collection Mechanism based on IoT Akshay Mohan, Shubham Johar, S. Mini	Effective Resistance Calculation for Fixing Reliability Verification Violations Shylashree N, Mohammed Imran M M	Techniques of Reconfigurable Bandpass Filter For Realization of Adaptable RF System and Proposed Methodology Gaurav Mittal, Nagendra Prasad Pathak
1110 – 1120	SA1A-8	SA1B-8	SA1C-8	SA1D-8	SA1E-8
	Analysis of Carrier Based SPWM Techniques for Grid Connected Modular Multilevel Converter Harshith Talasila, Rupak Chakraborty, Teenu Techela Davis, Anubrata Dey	Modified TF-IDF Term Weighting Strategies for Text Categorization Rajendra Kumar Roul, Jajati Keshari Sahoo, Kushagr Arora	Robust Label Consistent Dictionary Learning for Face Recognition Sowjanya Modalavalasa, Upendra Kumar Sahoo, Ajit Kumar Sahoo	Efficiency of Boric acid coated semiconductor neutron detector - A GEANT4 simulation study Manoj Kumar Parida, K. Prabakar, G. Prasanna S.Tripura Sundari	Development of Semi supervised Classifier for SAR Image Pattern Recognition Nidhi Verma, Pankaj Kumawat, Pooja Mishra, Neetesh Purohit, Dharmendra Singh

POSTER SESSION

Saturday, 16 December, 2017, 11:20 – 12:00

1. SAA1
Automatic Detection of Common Carotid Artery in Transverse Mode Ultrasound Images
Harish Kumar Singh, Birendra Kumar Singh
2. SAA2
Discovering conversational topics and emotions associated with Demonetization tweets in India
Mitodru Niyogi, Asim Kumar Pal
3. SAA3
Facial Expression Recognition Using Histogram of Oriented Gradients with Selected Features
Sumeet Saurav, Sanjay Singh, Ravi Saini
4. SAA4
Automatic lip contour extraction using pixel-based segmentation and piece-wise polynomial fitting
Sukesh Kumar Das, Salam Nandakishor and Debadatta Pat
5. SAA5
A Mutual Trust Based Access Control Framework for Securing Electronic Healthcare System
Ashish Singh, Kakali Chatterjee
6. SAA6
Spanning Tree Problem with Neutrosophic Edge Weight
Said Broumi, Assia Bakali
7. SAA7
Lossy Image Compression using Frequent Pattern Mining based Huffman Encoding
C. Oswald, Nikhil Chennu, Harsha Valveti, Sivaselvan B, Subham Biswas
8. SAA8
Language Attributes based Author Identification
Arunima Sharma, C.P.Gupta
9. SAA9
PAG-MAC: Prioritized Allocation of GTSSs in IEEE 802.15.4 MAC protocol - A dynamic approach based on Analytic Hierarchy Process
Sathi Roy , Imraj Mallik, Arnab Poddar, Soumen Moulik
10. SAA10
Discrete Artificial Bee Colony Algorithm based Optical Character Recognition
Nishal Ancelette Pereira, Prajwal Raoy, Akshay K Kallianpur, K G Srinivasa
11. SAA11
Bin-BB: Binning with Branch & Bound feature selection for improved diabetes classification
Ramalingaswamy Cheruku, Damodar Reddy Edla
12. SAA12
Analysis and Design of Contactless Energy Transfer System for E-Scooter using Circular Coils
Kundan Kumar, Dr. Kishore Naik Mude, Subhendra Bikash Santra

13. SAA13
Effect of Impact on Voltage and Current Available from Piezoelectric Crystals
Aman Sharma, Vishal Sharma, Sahil Jain
14. SAA14
Comparison of different parameters using Single Diode and Double Diode model of PV module in a PV-Battery system using MATLAB Simulink
Gaurav Yadav, Kiran Kumar Jaladi
15. SAA15
Economic Aspects of Integrated Renewable Energy System for remote area electrification
Dixitkumar Prafulkumar Pathak, Dheeraj Kumar Khatod
16. SAA16
An Improved Learning Based Multilayer Height Control Strategy in LMD Process
Apurba Das, Sarbani Mukherjee, Santu Kr. Giri, A. K. Lohar
17. SAA17
Nonlinear Reduced Order Observer Based Controller Design for High-Speed Trains
Meera Patel, Bhanu Pratap
18. SAA18
Wireless monitoring, control and automation in pulp and paper industry
S.P. Jayasri, N. Vyshnaviy and S. Moorthiy
19. SAA19
A Sliding Mode Control of DC-DC Interleaved Boost Converter
Archana R. Nikhar, Sandip M. Apte, Pravin Nagrale, Rahul Somalwar
20. SAA20
Analysis of Power System Signals using Wavelet Ridge Method
Rajiv Jha, Nilanjan Senroy
21. SAA21
Design and Analysis of Multi-Loop Feed Forward Control Schemes for DVR under Distorted Grid Conditions
A.Karthikeyan, D.G.Abhilash Krishna,Sushant Kumar, C.Nagamani
22. SAA22
An Improved Control Method for the DC-DC Converter in Vehicle to Grid Charging System
Srihari Nayak, Sanjeeb Mohanty, Himanshu Jyoti Saikia
23. SAA23
Switched Impedance Enhanced-Boost Quasi-Zsource Inverter
Vadthya Jagan, Sharmili Das
24. SAA24
Stator flux based MRAS speed and stator resistance estimator for sensorless PMSM drive
Karthikeyan A., Prabhakaran K K, Nagamani C
25. SAA25
A Novel Adaptive Frequency Control Strategy for Micro Grid
Priya Singh Bhakar & G. Kesava Rao, Dr. Saumendra Sarangi
26. SAA26
Demand Response integrated Dynamic Economic Dispatch
Velamuri Suresh, Sreejith S

27. SAA27
Generation Bidding Strategy in a Pool-Based Electricity Market Using Oppositional Gravitational Search Algorithm
Satyendra Singh, Manoj Fozdar
28. SAA28
Stability Constrained Optimal Allocation of DGs in Autonomous Micro-grids
Kanimozhi Kumar, Srividhya Subramanian, Suman Murugesan, Venkata Kirthiga
29. SAA29
Reduced Capacitor Stress Enhanced-Boost Improved-Z-Source Inverter
Vadthya Jagan, Sharmili Das
30. SAA30
Solar Photovoltaic Array fed Push-Pull Buck DC-DC Converter for Telecom Load
Saravana Prakash P, R Kalpana, Bhim Singh
31. SAA31
Analysis of active power sharing and synchronization in MultiDG micro grid
Rahul S.Somalwar, Snehal P.Vaidya, Sumant G.Kadwane, Snehal P.Gawande
32. SAA32
Modeling of Stand-Alone Three-phase Inverter for Various Loads using Space Vector Pulse Width Modulation
Narendra Kumar, Aquib Jahangir, Ilam Hoque
33. SAA33
A Zero Voltage Switching (ZVS) Boost Converter Suitable for Power Factor Correction
Prasenjeet Biswas, Dipankar Halder, T.Halder
34. SAA34
Grey Wolf Optimization based Energy Management by Generator Rescheduling with Renewable Energy Resources
Vijay K. Prajapati, Vasundhara Mahajan
35. SAA35
A High Conversion Gain and Low Flicker Noise Gilbert Mixer Design in 180 nm CMOS Process
Shasanka Sekhar Rout, Kabiraj Sethi
36. SAA36
Estimation of Radar Cross Section for Target models of Different sizes using Physical Optics Approximation
Swathi Nambari, Sasibhushana Rao G, Ranga Rao K S
37. SAA37
Refreshable Braille Display for the Visually Impaired
Raj D. Sutariya, Himanshu Siddhinandan Singh, Sudhir Rameshbhai Babariya, Sajid Ali Mahemudbhai Kadiyar, Darshan Harshadkumar Modi
38. SAA38
Tongue Operated Integrated System
Jhanak Johri, Jyothi Pillai, Manasi Shakya

39. SAA39
High performance variable width multipath multilayer differential inductor
Sunil Kumar Tumma, N. Bheema Rao
40. SAA40
Organic Light Emitting Diodes- Recent Advancements
Anshika Srivastava and Brijesh Kumar
41. SAA41
Performance Evaluation of Heterojunction SOI-Tunnel FET with Temperature
Sweta Chander, Sanjeet Kumar Sinha, Sanjay Kumar, Prince Kumar Singh, Kamalaksha Baral, Kunal Singh, Satyabrata Jit
42. SAA42
A Hysteresis Controlled Resolution for Level Crossing Sampling ADC
Akash Joshi, Raghvendra Deshmukh and Rajendra Patrikar
43. SAA43
Double Gate Gaussian Doped Negative Capacitance FET (DGGDNCFET): A Novel Concept for Enhanced Device Performance
Hema Mehta, Harsupreet Kaur
44. SAA44
Reconfigurable Analog Filter Design using Current Mode Device
Mousumi Bhanja, Anirban Ganguly, Debanjana Dutta, Baidyanath Ray and Ayan Banerjee
45. SAA45
Comparative analysis of High-K gate stack based Conventional & Junctionless FinFET
Shubham Tayal, Ashutosh Nandi
46. SAA46
A High-Speed FPGA-based Implementation of Inverse Integer Transform Algorithm of H.264
Rohan Mukherjee, Arnab Poddar, Anupam Banerjee, Indrajit Chakrabarti, Pranab Kumar Dutta, Ajoy Kumar Ray
47. SAA47
Optimization of CMOS Analog Circuits Using Grey Wolf Optimization Algorithm
M A Mushahhid Majeed , Patri Srihari Rao
48. SAA48
Joint Source Channel Coding for Hyperspectral Imagery
Mamatha A.S, Sagar. K, Sumanth. J
49. SAA49
Fast Camera Motion Estimation utilizing Mode and Directional Self Information in the Compressed Domain
Brinda N, Manish Okade
50. SAA50
A Novel Matching Theory-Based Framework for Computation Offloading in Device-to-Device Communication
Dheeraj Mittal, Udit Narayana Kar, Debarshi Kumar Sanyal

51. SAA51

Space shift keying performance with dual hop AF relay over mixing

H.K Sahu, P.R.Sahu

52. SAA52

Detection of signal in additive CN with unknown parameter

S.R Krishna, P.Ray

53. SAA53

PASE-AKA: Performance and Security Enhanced AKA Protocol for UMTS Network

Balu L. Parne, Shubham Gupta, Narendra S. Chaudhari

TECHNICAL SESSIONS

Saturday, 16 December, 2017, 12:00 – 13:20

	SA2A: Power Systems Engineering Chair: Biswarup Das, IIT Roorkee Co-Chair: Premalata Jena, IIT Roorkee	SA2B: Computer Science & Engineering Chair: Manoj Misra, IIT Roorkee Co-Chair: Sugata Gangopadhyay, Sandeep Kumar, IIT Roorkee	SA2C: Communication & Information Technology Chair: Madhav J. Nigam, IIT Roorkee Co-Chair: Pyari Priya Mohan, IIT Roorkee	SA2D: Microelectronics & VLSI Chair: Sudeb Dasgupta, IIT Roorkee Co-Chair: Sanjeev Manhas, IIT Roorkee	SA2E: Control Systems & Mechatronics Chair: Pushpraj M. Pathak, IIT Roorkee Co-Chair: Vijay Kumar, IIT Roorkee
1200 – 1210	SA2A-1 Modified Control of DFIG-WT for the Smooth Generator Speed Response under Turbulent Wind Ganesh P. Prajapat, N. Senroy, I. N. Kar	SA2B-1 A Study on User Interaction with Multi-Window Screen Support Framework for Multitasking Operations on Smartphones Ginny, Prof. Chiranjeev Kuma, Prof. Kshirasagar Naik	SA2C-1 Incremental Modified Leaky LMS Sowjanya Modalavalasa, Upendra Kumar Sahoo, Ajit Kumar Sahoo	SA2D-1 Experimental characterization and power- performance optimization of a POWER based server class memory subsystem Pavithra Kannan, Saravanan Sethuraman, Sivarama K Pullelli, Michael Pardeik, Diyanesh Chinnakkonda	SA2E-1 Robust Sliding Mode Control for Three Time Scale System with LMI Approach R. S. Mane, R. K. Munje
1210 – 1220	SA2A-2 Condition Number Monitoring of Power Flow Jacobian Matrix to Detect Impending Voltage Instability H.K Chappa, T.Thakur	SA2B-2 Intra-Saliency Transfer for Effective Salient Object Detection Aditya Kompella, Raghavendra V. Kulkarni	SA2C-2 Mizo Phone Recognition System Abhishek Dey, Wendy Lalhminglui, Priyankoo Sarmah4.K. Samudravijaya	SA2D-2 Lithography independent nanostructuring of Bi2Te3 thermoelectric devices D. Merten, K. T. Kallis, F. J. Giebel, J. Zimmermann, R.P. Poloczek, H. L. Fiedler, P. Lilienthal	SA2E-2 Performance Evaluation of Different Denoising Techniques for Physiological Signals Vineeth Muppalla, N Sri Sai Krishna Suraj, Vyza Yashwanth Sai Reddy, D.Suman
1220 – 1230	SA2A-3 Prediction of Breakdown Strength of Non-cellulosic Insulating Materials using Artificial Neural Networks Sakshi Singh, M. M. Mohsin, and Aeja Masood	SA2B-3 Improvement in Speaker Verification Performance using an innovative combination scheme Krishna Dutta, Jagabandhu Mishra, Debadatta Pati	SA2C-3 Computationally Efficient Near-Field Source Localization Using Single Snapshot Shree Prasad M, Trilochan Panigrahi , Ankit Dubey	SA2D-3 A 408 nW, 0.7 V, Voltage Reference circuit Using MOSFETs in Saturation and sub-threshold regions Dinesh Kushwaha, D. K .Mishra	SA2E-3 Performance Analysis of Brain Emotional Controller for Rotary Inverted Pendulum System MD Qutubuddin, Bapi S. Raju, Narri Yadaiah
1230 – 1240	SA2A-4 A state of the Art review on Wireless Power Transfer a step towards sustainable mobility Aqueel Ahmad, Mohammad Saad Alam, Vatsala, Yash Varshney, Raquib Hasan Khan	SA2B-4 Robust Method for Binarization, Recognition and Vectorization of Land Map Images Siddharth Kumar, Swalpa Kumar Roy, Bhabatosh Chanda, Bidyut B. Chaudhari, Soumitro Banerjee	SA2C-4 Poisson Point Process Study of the Functionality of Inband Overlay Device to Device Communication Subhankar Chakrabarti, Susmita Das	SA2D-4 Micro strain interrogation based on fiber-optic Mach-Zehnder interferometers Yang Lu, Jia-Wei Wang, Nai-Yi Fang, Jian-Wei Zheng, Nan-Kuang Chen	SA2E-4 Discrete-Time Robust Control of Variable Speed Wind Turbine Using Quantitative Feedback Theory Navdeep Singh, Bhanu Pratap, Akhilesh Swarup

1240 – 1250	SA2A-5	SA2B-5	SA2C-5	SA2D-5	SA2E-5
	<p>Development of High Voltage Pulse Power Supply for Microwave Tube Applications</p> <p>Subhash Kumar Ram, Anand Abhishek, P. K. Pedapati, B. K. Verma, A. K. Dhakar, Rahul Varma</p>	<p>Identification of Coronary Artery Disease Using Cross Power Spectral Density</p> <p>AKANKSHA, Pranab Samanta, Kayapanda Mandana, Goutam Saha</p>	<p>A Novel Algorithm for Protection of Primary Receiver in Cognitive Radio Network</p> <p>Vivek Rajpoot, Vijay Shanker Tripathi</p>	<p>Extraction and de-embedding of S-parameters using small-signal modeling for AlGaIn/GaN HEMTs</p> <p>Pragyey Kumar Kaushik, Umakant Goyal</p>	<p>Extreme Learning ANFIS Control of a Flexible Link Manipulator</p> <p>Shihabudheen KV, G. N. Pillai</p>
1250 – 1300	SA2A-6	SA2B-6	SA2C-6	SA2D-6	SA2E-6
	<p>Dynamic Stress Assessment in Power Transmission Network to Support Wide Area Early Warning System</p> <p>Manas Kumar Jena, B.K Panigrahi</p>	<p>Automatic Field of View Extraction with Variable Enhancement of Color Fundus Images</p> <p>Sushma Sudhakar Rao Kulkarni, Ravi Kamble, Manesh Kokare</p>	<p>Network Utility Function Performance Analysis Using Cooperative Spectrum Sensing Network over Fading Channels</p> <p>M.Ranjeeth, S. Anuradha</p>	<p>Effect of Thermal and Forming Gas Annealing on the Characteristics of Si/SiON/Ti-Pt MOS Capacitor</p> <p>Renu Rajput & Rakesh Vaid</p>	<p>Design of an FOPI Controller for Inverted Decoupled TITO Coupled-tank System using Grey Wolf Algorithm: A real-time Implementation</p> <p>Gandikota Gurumurthy, Dushmanta Kumar Das, Pankaj Mathpal</p>
1300 – 1310	SA2A-7	SA2B-7	SA2C-7	SA2D-7	SA2E-7
	<p>STATCOM-Based Voltage Regulation in Grid Integrated Wind Farm under Variable Loading Conditions</p> <p>Emad Jamil, Qurratulain, Salman Hameed</p>	<p>An efficient code coverage technique for UML StateChart Diagram</p> <p>Arpita Dutta, Sangharatna Godbole, Durga Prasad Mohapatra</p>	<p>An Efficient MI Waveguide Based Underground Wireless Communication for Smart Irrigation</p> <p>Swathi S, Sakthivel Murugan Santhanam</p>	<p>Implementation of Cochlear Implant Receiver Stimulator IC</p> <p>P.Sushma, J.Nalini Vidyulatha, D.Shravan Kumar, Pradeep Kumar Dixena, Divya Kumar Garg, C.Sharada, M.Madhava Kumar</p>	<p>Modified Phase Shifted SVPWM Technique for Five-Phase Open-End Winding Induction Motor with Zero Common Mode Voltage</p> <p>Satish Belkhode, Ramsha Karamपुरi, Sachin Jain,</p>
1310 – 1320	SA2A-8	SA2B-8	SA2C-8	SA2D-8	SA2E-8
	<p>Robust Estimation of Switching Transients of Non-Linear Loads and Their Comparative Studies</p> <p>Meghabriti Pramanik, Aurobinda Routray, Pabitra Mitra</p>	<p>Digit By Digit Fast Decimal Multiplication</p> <p>Diganta Sengupta, Mahamuda Sultana, Atal Chaudhuri</p>	<p>EDDA: Event-Driven Data Aggregation in Wireless Sensor Networks</p> <p>E G Prathima , Venugopal K R, L M Patnaik</p>	<p>Impact of Strain on Electrical Characteristic of Double-Gate TFETs with a SiO₂/HfO₂ Stacked Gate-Oxide Structure</p> <p>Prince Kumar Singh, Sanjay Kumar, Sweta Chander, Kamalaksha Baral, and S. Jit</p>	<p>Analysis of Sliding Mode Control for Network Connected Speed Control of DC Motor</p> <p>Jagannath Samantaray, Sohom Chakrabarty</p>

POSTER SESSION

Saturday, 16 December, 2017, 15:30 – 16:10

1. SAB1
A Comparative Study of PI and PID Based SMC for Anti-Synchronisation of Lorenz-Stenflo Chaotic System
Jagannath Samantaray, Piyush Pratap Singh, Binoy Krishna Roy
2. SAB2
Efficient Ride Quality and Road Holding Improvement for Active Suspension System
Jumi Bharali, Naman Garg
3. SAB3
Design and Real Time Software-in-the-Loop Simulation of Robust-Optimal Speed Controller for Vector Controlled Induction machine
Rupak Chakraborty, Debayan Bose, Shohan Banerjee, Kaushik Halder, Amitava Gupta
4. SAB4
Synchronization of N-Coupled Hindmarsh-Rose Neuron Model with Time-Varying Delays
Sourav Bhowmick, Surajit Panja
5. SAB5
Robust Frequency Control in an Islanded Microgrid: A Novel Stochastic Fractal Search Algorithm Approach
Rajendra Kumar Khadanga, Vinod Kumar, Amit Kumar
6. SAB6
Hardware based Real Time Implementation of Perturb and Observe Algorithm in LabVIEW viacRIO- 9075 interface
Suvom Roy
7. SAB7
Energy Efficient Elevators and Technologies : An Overview
Rohan Sirsi, Danesh Kamath
8. SAB8
Optimum utilization of Alternative sources of energy for an un-electrified remote area
Dixitkumar Prafulkumar Pathak, Dheeraj Kumar Khatod
9. SAB9
Enhancement of Power Quality Using Active Power Filter for PV Systems with Model Based MPPT
Md Ehtesham, Majid Jamil
10. SAB10
A two threshold model for shadowed set with gradual representation of cardinality
Ankita Bose, Kalyani Mali
11. SAB11
Arithmetic Operations on Encrypted Data using Fully Homomorphic Encryption
Shiji Mariam Mathew, Sabitha S
12. SAB12
Bi-objective HWDO Algorithm for Optimizing Makespan and Reliability of Workflow Scheduling in Cloud Systems
Poonam Singh, Maitreyee Dutta, Naveen Aggarwal
13. SAB13
A review of spectrum sensing mechanisms in wireless cognitive radio networks
Nandini K S, Hariprasad S A

14. SAB14
Comparative Analysis of Single and Multistep Interferogram Processing Techniques
Amit Chatterjee, Jitendra Dhanotia, Vimal Bhatia, Santosh Rana, Shashi Prakash
15. SAB15
Hyperbolic Feature-based Sarcasm Detection in Tweets: A Machine Learning Approach
Santosh Kumar Bharti, Reddy Naidu, Korra Sathya Babu
16. SAB16
A novel model to handle uncertainty using Rough sets and Neutrosophic relational maps
Megha Kumar, Swati Aggarwal
17. SAB17
Perspectives on Implementation of SNOMED-CT for Hospital Management Systems in India
Pragya Sharma , Sumit Soman, Praveen K Srivastava
18. SAB18
Non-parametric iris localization using pupilâ€™s uniform intensities and adaptive masking
Ritesh Vyas, Tirupathiraju Kanumuri, Gyanendra Sheoran
19. SAB19
Design of an architecture for cloud storage to provide Infrastructure as a Service (IaaS)
Samhita Kanthavar, Manish Chawla
20. SAB20
State Estimation of Power System Signal using Constrained Optimized Algorithms- Comparative Analysis
Meghabriti Pramanik, Aurobinda Routray, Pabitra Mitra
21. SAB21
Power Management of Solar based DC Microgrid System Enabled by Solid State Transformer
Jayendra Kumar, Saurabh Srivastava, Vineeta Agarwal
22. SAB22
A New Demand Side Management Scheme for Residential Consumers using Electric Springs
S Hari Charan Cherukuri, B Saravanan, K S Swarup
23. SAB23
A High Voltage Gain Quadratic Boost Converter using a Voltage Doubler and Voltage-Lift Technique
Arpan Laha, Ravindra K. Singh, P. Karuppanan, Asheesh K. Singh
24. SAB24
Finite-Control-Set Predictive Current Control Based Real and Reactive Power Control of Grid-Connected Hybrid Modular Multilevel Converter
Rashmi Ranjan Behera, Amar Nath Thakur
25. SAB25
Elimination of 5th and 7th Current Harmonics in Six-Phase Asymmetrical IM Drive
Shaikh Mo.Suhel A, Rakesh Maurya, Vamja Rajan Vinodray
26. SAB26
Transmission line restoration using ERS structure
Dharmbir Prasad, Md. Irfan Khan, Pradip Barua, Harish Agarwal
27. SAB27
Non Symmetrical Ground Grid Design Technique for Elevated Metro Station-A Case Study
Subhendu Bikash Santra, Sukanya Dutta, Kundan Kumar, Debashis Chatterjee
28. SAB28
Operation and Control of Doubly Fed Induction Generator Based Wind Energy System Using FPGA
Maloth Naresh, Ramesh Kumar Tripathi

29. SAB29
Optimal Combined Overcurrent and Distance Relays Coordination using Teaching Learning based Optimization
Saptarshi Roy, Dr. P Suresh Babu, N.V.Phanendra Babu
30. SAB30
LPPT Control of a Dual-Stage Grid Connected Multi-String Photovoltaic System
M. Kranthi Kumar Reddy, Vaskar Sarkar
31. SAB31
A Small Scale Microgrid Planning based on Battery SOC for a Grid-connected Microgrid comprising of PV System
Maneesh Kumar, Barjeev Tyagi
32. SAB32
Optimal Placement of PMU Considering Practical Costs in Wide Area Network
Soumesh Chatterjee, Biman Kr. Saha Roy, Pronob K Ghosh
33. SAB33
Probabilistic Modeling and Analysis of Aggregated Electric Vehicle Charging Station Load on Distribution System
Jyotsna Singh , Rajive Tiwari
34. SAB34
Dynamic Modelling and Control of PMSG based Stand-alone Wind Energy Conversion System
Shruti Sahu, Dr. Gayadhar Panda
35. SAB35
ENG Resonators-Based Reconfigurable Microwave Filter for Stopband Frequency Diversity
Ratnesh Kumari, Rahul Yadav², Piyush N. Patel
36. SAB36
A Compact ACS-Fed Triple-Band Dual-Polarized Stubs-Loaded Frequency Reconfigurable Printed Antenna for WiMAX and WLAN Applications
Madhu Yadav, Ashok Kumar, Kundan S Rathore
37. SAB37
Novel CPW-fed UWB Monopole Patch Antenna for 5G Mobile Technology
Manju Saini, Sudhir Singh, Tushar Goel
38. SAB38
Microstrip Patch Antenna for WLAN and RAS Applications
Ankit kumar Patel, Shekhar Yadav, Komal Jaiswal
39. SAB39
Implementation Of Signal Processing Filters For Portable ECG Devices Using Android Mobile Phone And Bluetooth
Yegireddi Sai Krishna Chaitanya, Renuka. S, Subin.E.K, Dr. Sudheer A.P
40. SAB40
Fast Combinational Architecture for a Vedic Divider
Abhinav Parashar, Gaurav Aggarwal, Radhika Dang, Preyesh Dalmia, Neeta Pandey
41. SAB41
Design of a High-speed Reconfigurable Fast Hartley Transform Processor using CBNS
Madhumita Mukherjee, Salil Kumar Sanyal
42. SAB42
Reconfigurable Dynamic Scheduling In Superscalar Processor for FIR Filter
Ramya S, Rajeshwari B.

43. SAB43
A Simulation Based Study for Electrical Characteristics of SOI TFETs with Ferroelectric Stacked Gate Oxide Structure
Sanjay Kumar, Ashvini Rahangdale, Sweta Chander, Prince Kumar Singh, Kamalaksha Baral, and S. Jit
44. SAB44
Hybrid Doped PMOS and its short channel performance
Sunil Kumar, Asim M. Murshid, Sajad A Loan
45. SAB45
Zynq SoC Based High Speed Data Transfer Using PCIe: A Device Driver Based Approach
Pramod Kumar Tanwar, Om Prakash Thakur, Kritik Bhimani, Gaurav Purohit, Vipin Kumar, Sanjay Singh, Kota Solomon Raju, Idaku Ishii, Sushil Raut
46. SAB46
Excellent DIBL Immunity in Junctionless Transistor on a High-k Buried Oxide
M. Ehteshamuddin, Sajad A. Loan and M. Rafat
47. SAB47
Implementation of Digital Pulse Width Pulse Frequency Modulator Design on FPGA
Rajiv Bhatia, N.Padmavathi, V Lekshmi, Sudhakar S
48. SAB48
Hardware Implementation of Hybrid Classifier to Detect Cancer Cells
Naresh Gowda M, Abdul Imran Rasheed
49. SAB49
Analysis of different Adders using CMOS, CPL and DPL logic
S.Nagaraj, G.M.Sreerama Reddy, S.Aruna Mastani
50. SAB50
A Lightweight Handover Authentication Protocol based on Proxy Signature for Wireless Networks
Shubham Gupta, Balu L. Parne, Narendra S. Chaudhari
51. SAB51
Grid and Fuzzy based Stable Energy-Efficient Clustering Algorithm for Heterogeneous Wireless Sensor Networks
Akshay Verma, Tarique Rashid, Mamta Khosla
52. SAB52
Comparative analysis of OMP and ROMP for sparse recovery of temporally correlated data in WSNs
Poonam Goyal, Brahmjit Singh
53. SAB53
Tunable Multilevel Probabilistic Sensing Model based Intrusion Detection in Gaussian Distributed WSNs
Vivek Pathak, Vinay Kumar, Rabindra K. Barik

TECHNICAL SESSIONS

Saturday, 16 December, 2017, 16:10 – 17:30

	SA3A: Power Systems Engineering Chair: Biswarup Das, IIT Roorkee Co-Chair: Premalata Jena, IIT Roorkee	SA3B: Computer Science & Engineering Chair: Manoj Misra, IIT Roorkee Co-Chair: Sugata Gangopadhyay, Sandeep Kumar, IIT Roorkee	SA3C: Communication & Information Technology Chair: Madhav J. Nigam, IIT Roorkee Co-Chair: Pyari Priya Mohan, IIT Roorkee	SA3D: Humanitarian Technology Chair: Ramasare Prasad, IIT Roorkee Co-Chair: Prof D Bhagwan Das, Dayalbagh Educational Institute, Agra	SA3E: Control Systems & Mechatronics Chair: Pushpraj M. Pathak, IIT Roorkee Co-Chair: Vijay Kumar, IIT Roorkee
1610 – 1620	SA3A-1	SA3B-1	SA3C-1	SA3D-1	SA3E-1
	Vulnerability Analysis of Weighted Indian Power Grid Network Based on Complex Network Theory Premananda Panigrahi, Somnath Maity	Accelerated Reinforcement Learning Lakshmanan Kailasam	Quality Aware Design and Analysis of FSO Link in Wireless Optical System Kappala Vinod Kiran, Vikram Kumar, Ashok Kumar Turuk	Loss of Alertness under Cognitive Fatigue Using EEG Synchronization Anwesha Sengupta, Abhishek Tiwari, Aurobinda Routray	An Interval Type-2 Fractional Order Fuzzy Logic Controller Employed to Uncertain Nonlinear Inverted Pendulum Anupam Kumar, Vijay Kumar
1620 – 1630	SA3A-2	SA3B-2	SA3C-2	SA3D-2	SA3E-2
	Hydro-Thermal-Wind Coordination for Short Term Unit Commitment Using Lambda-Gamma Iteration and Particle Swarm Optimization Akshay Anantharaman, Sarang Sharan, Naveen K, M.P. Selvan	Security Vulnerability Analysis using Ontology-based Attack Graphs MANIKLAL DAS, Manik Lal Das	A Joint Enhancement-Decoding Formulation for Noise Robust Phoneme Recognition Nazreen P. M., A. G. Ramakrishnan, Prasanta Kumar Ghosh	Modeling and Analysis of Electrodes for Electrooculography Anirban Dasgupta, Suvodip Chakraborty, Anwesha Sengupta	Multi-Objective Robust Design and Performance Analysis of Two-DOF-FOPID Controller for Magnetic Levitation System Prashant J. Gaidhane, Madhav J. Nigam
1630 – 1640	SA3A-3	SA3B-3	SA3C-3	SA3D-3	SA3E-3
	Flux Weakening Operation of PMSM with Hysteresis PWM Current Controller K.Renu, N.Krishna Kumari, D. Ravi Kumar	Self-Assertive Generic UVM Test Bench for Advanced Verification of Bridge IPs Gaurav Sharma, Lava Bhargava, Vinod Kumar	Route Assortment Procedure for Mobile Ad Hoc Networks using a Novel Modified Mobility Factor Vrince Vimal, Madhav J Nigam, Harvinder Verma	Numerical analysis of the mechanical behavior of assistive device using gait data from experimental and statistical methods. Shreeshan Jena, A. Thirugnanam, Subrata Kumar Panda	Remotely Operated Vehicle (ROV) IRIS-SP for Underwater Inspection Tasks Alok Sahu, Debasish Ghose, P. S. Sastry
1640 – 1650	SA3A-4	SA3B-4	SA3C-4	SA3D-4	SA3E-4
	Review on Three-Phase PLLs for Grid Integration of Renewable Energy Sources Vivek Khatana, Ravikumar Bhimasingu	Discriminative Region based Two Stage System for Online Handwritten Character Recognition Subhasis Mandal, S. R. Mahadeva Prasanna, Suresh Sundaram	MIMO Free Space Optical Communication Systems with Low Complexity QR-OSIC Detector Divyang Rawal, Nikhil Sharma	Affect Detection from Speech using Deep Convolutional Neural Network Architecture Saikat Basu, Jaybrata Chakraborty, Md. Aftabuddin	Model Based Control of Heavy Road Vehicle Brakes for Active Safety Applications Nithya Sridhar, Kesavan Valis, Shankar C. Subramanian, Gunasekaran Vivekanandan, Sriram Sivaram

1650 – 1700	SA3A-5	SA3B-5	SA3C-5	SA3D-5	SA3E-5
	Digital design and implementation of an overcurrent relay on FPGA Praveen Kumar, Vishal Kumar, Rajendra Pratap	Adaptive Filtration Techniques for Impulsive Noise Removal from ECG PRATEEK SINGH, Kalyani Bhole, Dr. Ambalika Sharma	Design development and experimental validation of underwater APS Sai ram Krishna, Samerjit Das	Mechanization of Cloth Plication Automating the process of obtaining a folded cloth from a pile of clothes Dr.Veena N.Hegde, Priyanka Vijay Hubli	Implementation of CDM based PID controller for magnetic ball levitation system K.Poomani, R.Rameswari, S.Sathiyavathi
1700 – 1710	SA3A-6	SA3B-6	SA3C-6	SA3D-6	SA3E-6
	HIL based Coordinated Control of grid interfaced Distributed Generation assisted Battery Swapping Station Satabdy Jena, Gayadhar Panda, Pierluigi Siano	Convex Set based Abundance Constrained Unmixing of Hyperspectral Image Samiran Das, Aurobinda Routray	Crosstalk Suppression using Trench-assisted Technique in 9-core Homogeneous Multi Core Fiber Dablu Kumar, Rakesh Ranjan	Topographical Sub-band Analysis of EEG during Short Kriya Yoga Meditation Laxmi Shaw, Aurobindo Routray	Investigation on stator winding interturn fault in induction motor using the autotransformer based approach Merugu Siva Rama Krishna, Danwei Wang, Jeevanand Seshadrinath, Viet Hung Nguyen, Viswanathan Vaiyapuri
1710 – 1720	SA3A-7	SA3B-7	SA3C-7	SA3D-7	SA3E-7
	Investigations in to Induction Motor Drive using Slip Power Recovery Scheme with GTO Inverter and Chopper Sita Ram, O. P. Rahi, Veena Sharma, K. S. R. Murthy	Score based Face Quality Assessment (FQA) Shubhobrata Bhattacharya, Aurobinda Routray	Voice activity detection from the breathing pattern of the speaker A G Ramakrishnan, Gireesh Krishnan, S Srivathsan	Paper Based Flexible Carbon-FET Devices by Embedding Si Nanoparticles in Graphite Channel Mitradip Bhattacharjee, Dipankar Bandyopadhyay	Sensorless DTC-SVM Strategy for Doubly-Fed Induction Machine Drive using Model Reference Adaptive System Rahul Kumar, Sukanta Das
1720 – 1730	SA3A-8	SA3B-8	SA3C-8	SA3D-8	SA3E-8
	Isolated Multiport Converter for fuel Cell and Energy Storage systems for DC Microgrid Ishita Biswas, Debaprasad Kastha, Prabodh Bajpai	SAR Image Registration Using An Improved Anisotropic Gaussian-SIFT Algorithm Sourabh Paul, Umesh C. Pati	Split Acoustic Modeling in Decoder for Phoneme Recognition Pradeep R, K. Sreenivasa Rao	Age Dependence of Pulse Transit Time Derived from dual PPGs and PPG-ECG duo - A comparative Study Kayalvizhi. N, Lakshmi Nukundan	Analysis and Design of Sliding Mode Control for MPPT Based PV System with a Battery Storage Study Shalini Marripudi, Satish Kumar Gudey, Giridhar Reddy Guju

TECHNICAL SESSIONS

Sunday, 17 December, 2017, 09:00 – 10:20

	SU1A: Power Systems Engineering Chair: Biswarup Das, IIT Roorkee Co-Chair: Premalata Jena, IIT Roorkee	SU1B: Computer Science & Engineering Chair: Manoj Misra, IIT Roorkee Co-Chair: Sugata Gangopadhyay, Sandeep Kumar, IIT Roorkee	SU1C: Communication & Information Technology Chair: Madhav J. Nigam, IIT Roorkee Co-Chair: Pyari Priya Mohan, IIT Roorkee	SU1D: Green Technology Chair: Prof. Narayan P. Padhy Co-Chair: Dr. Rajib K. Panigrahi	SA1E: RF & Microwave Engineering Chair: Dharmendra Singh, IIT Roorkee Co-Chair: Nagendra P. Pathak, IIT Roorkee
0900 – 0910	SU1A-1 A Simple Method to Improve Performance of UPQC with Unbalanced Load Ashish Patel, Hitesh Datt Mathur , Surekha Bhanot	SU1B-1 An Efficient Image Classification using Bag-of-Words based on SURF and Texture Features Divya Srivastava,Rajitha B., Suneeta Agarwal	SU1C-1 Development of Energy Efficient Cognitive Radio Network using Sequential Quadratic Programming Anchal, Ghanshyamkumar Sah, Pyari Mohan Pradhan	SU1D-1 Single Phase Grid Interactive Inverter Control for Renewable Energy Systems with Minimized Number of Sensors Aditi Chatterjee, Kanungo Barada Mohanty	SU1E-1 Design of a Magnetron Injection Gun for a 4 MW, 170 GHz, Coaxial Cavity Gyrotron Delphine Alphonsa Jose, S. Yuvaraj, Madan Singh Chauhan, M.V. Kartikeyan
0910 – 0920	SU1A-2 OPEN Unified Power Quality Conditioner Model With and Without Storage Units to Improve Power Quality and Losses of Radial Distribution Networks Shubh Lakshmi, Sanjib Ganguly, Upasana Sarma	SU1B-2 Optical Image Encryption using Fringe Projection Profilometry, Fourier Fringe Analysis, and RSA Algorithm Amit Chatterjee, Jitendra Dhanotia, Vimal Bhatia, Santosh Rana, Shashi Prakash	SU1C-2 Improvement of Energy Concentration in S-transform using Maximally Concentrated Window Neha Singh, P. M. Pradhan	SU1D-2 Efficiency Enhancement In Thin Film ITO-Si Heterojunction Solar Cell Using Photonic Crystal Abhinav Bhatnagar, Dr. Vijay Janyani	SU1E-2 A Low Loss Broadband Metamaterial Based High Gain W-band Flat Lens Antenna for Radar Application Bajra Panjar Mishra, Sudhakar Sahu , Surya K. Pathak, S.K.S. Parashar
0920 – 0930	SU1A-3 A novel Reduced Switched three phase unified power quality conditioner Muneer V, Avik Bhattacharya	SU1B-3 A Supervised Deep Learning Framework for Proactive Anomaly Detection in Cloud Workloads SHAIKU GUPTA, Neha Muthiyani, Siddhant Kumar, Aditya Nigam, Dileep Aroor Dinesh	SU1C-3 Elliptical region of interest based saliency detection Anmol Maharana, Dr. Smita Pradhan, Dr. Dipti Patra	SU1D-3 A Correntropy Based Control Algorithm for a Single-Phase Double Stage Grid Integrated Solar PV System Aakanksha Rajput, Neha Beniwal, Bhim Singh	SU1E-3 A Compact Half-Hemispherical DRA with two combined Fractal Approach Shabya Gupta, Arpita Tandy, Shubha Gupta, Monika Chauhan, Biswajeet Mukherjee
0930 – 0940	SU1A-4 Rough Set Theory Based Classification of Different Partial Discharge Sources Using Cross Wavelet Spectrum Priyanka Goswami, Subrata Biswas	SU1B-4 Intelligibility Enhancement of Alveolar Fricative in Cleft Lip and Palate Speech Protima Nomo Sudro, S. R. Mahadeva Prasanna	SU1C-4	SU1D-4 An Effective Solar PV Fed Modified Vector Control of IMD for Water Pumping- Saurabh Shukla, Bhim Singh	SU1E-4 On the selection of Radiating Elements for Electronically Steered Phased Array Antenna for SATCOM Applications Raj Kumar, M V Kartikeyan

0940 – 0950	SU1A-5	SU1B-5	SU1C-5	SU1D-5	SU1E-5
	Distribution System State Estimation: A Bibliographical Survey Mr. Sachidananda Prasad, Dr. Dulla Mallesham, Vinod Kumar	Application Core Mapping and Customization of NoC Platforms B. Naresh Kumar Reddy		A multipurpose sensor for heat flux and temperature measurement: Design and Computational Analysis Anupam Purwar	Analysis and Design of a Planar Crossover for Dual-Frequency Applications Idury Satya Krishna, Rusan Kumar Bark, S. S. Karthikeyan
0950 – 1000	SU1A-6	SU1B-6	SU1C-6	SU1D-6	SU1E-6
	IMPLEMENTATION OF CDM BASED PID CONTROLLER FOR MAGNETIC BALL LEVITATION SYSTEM K.Poomani, R.Rameswari, S.Sathiyavathi	Extreme Learning Machines with frequency-based noise filtering for prediction of critical digressions in a noisy industrial process RAVINITESH REDDY ANNAPUREDDY, Aditya Gupta, Manikumar PLN, Arya K. Bhattacharya		Companies Resistance and Intention to use Electronic Invoicing in Nigeria Olaleye Sunday Adewale, Sanusi Ismaila Temitayo	Multiband Antenna Deploying Swastika Slotted Fractal for WLAN Utilities Gagandeep Kaur, Chahat Jain, Munish Rattan
1000 – 1010	SU1A-7	SU1B-7	SU1C-7	SU1D-7	SU1E-7
	Transmission Expansion Planning with variation in Load under Deregulated Environment: An Analytical Approach Maneesh Kumar, Raminder Kaur	Gamma Gaussian Mixture Modeling for Fibro-glandular Tissue Segmentation in MR Images Vineeta Kumari, Gyanendra Sheoran, Tirupathiraju Kanumuri, Prajval Koul		Determination of Rating Requirement for Fuel-Cell-Battery Hybrid Energy System to Substitute the Diesel Locomotives of Indian Railway Sanjib Ganguly, Upasana Sarma	Assessment of Digital Beamforming Radar (DBF) and Spread Spectrum Digital Beamforming Radar (SSDBF) Nima Donka Tamang, Samarendra Nath Sur, Soumyasree Bera
1010 – 1020	SU1A-8	SU1B-8	SU1C-8	SU1D-8	SU1E-8
	Investigation on stator winding interturn fault in induction motor using the autotransformer based approach Merugu Siva Rama Krishna, Danwei Wang , Jeevanand Seshadrinath, Viet Hung Nguyen, Viswanathan Vaiyapuri	Exploring Dictionary Diversity for Improved Sparse Coding Based Speaker Verification Nagendra Kumar, Ganji Sreeram, Rohit Sinha		A Variable Perturbation Logic based Adaptive MPPT Controller design for PV System: a Real-time Implementation Jagadeshwar Maddikari, Gandikota Gurumurthy, Dushmanta Kumar Das, Pilla Venkata Soi suneel	Design of Ambiguity Function for Multi-Dynamic Radar extension of Multi-Static Radar Jawed Qumar, Dr S Christopher, Prof Ratnajit Bhattacharjee

POSTER SESSION

Sunday, 17 December, 2017, 10:20 – 11:00

1. SUA1
Target Tracking in WSN using NARX model
Jayesh H. Munjani, Moxanki A. Bhavsar, Maulin Joshi
2. SUA2
Study of Kalman filter based Noise Estimation in Artifactual EEG and their Quantification
Laxmi Shaw, G. Chanakya Vamsi, Aurobinda Routray
3. SUA3
Design and Performance Analysis of EDFA and SOA for Optical WDM Networks: A Comparative Study
Manoj Kr. Dutta
4. SUA4
Analysis of the ECG Signal to Understand the Effect of Regional State Anthem of Odisha in Young Reproductively Active Odia Females
Seemadri Subhadarshini, Suraj Kumar Nayak., Sirsendu Sekhar Ray
5. SUA5
Enhanced Throughput Performance of Cognitive Radio Networks under Primary User Emulation Attack with Spectrum Prediction
Kuldeep Yadav, Sanjay Dhar Roy, Sumit Kundu
6. SUA6
Hybrid WDM-FSO system with spatial multiplexing for 5G Wireless Network using in the presence of Wireless and Optical Nonlinearities
Somnath Chandra, Raman Jee
7. SUA7
A Levy Flight Firefly Optimizer based Piecewise Gamma Corrected Unsharp Masking Framework for Satellite Image Enhancement
Himanshu Singh, Anil Kumar, and L. K. Balyan
8. SUA8
Cuckoo Search Optimizer based Piecewise Gamma Corrected Auto-clipped Tile-wise Equalization for Satellite Image Enhancement
Himanshu Singh, Anil Kumar, and L. K. Balyan
9. SUA9
Understanding the Effect of a Motivational Music on Indian Male Volunteers Using Recurrence Analysis and ANN Classification
Gitika Yadu, Suraj Kumar Nayak, Debasisha Panigrahi, Arfat Anis
10. SUA10
A Robust Speaker Identification System for Natural and Whispered Speech
Garima Sood, Sidharth Pancholi, Amit M. Joshi
11. SUA11
Novel methods for Implementation of Efficient Median Filter
Venkatappareddy.P, Brejesh Lall, C.Jayanth, K.Dinesh, M.Deepthi
12. SUA12
Understanding the Effect of Sound of a Horror Audio-Visual Stimulus on R-R Interval Signal Using Recurrence and Empirical Mode Decomposition analyses
Soumanti Das, Ashirbad Pradhan, Suraj Kumar Nayak

13. SUA13
Neutral to Joyous Happy Emotion Conversion
Gurunath Reddy M, K. Sreenivasa Rao
14. SUA14
Design of an Enhanced Array Based Approximate Arithmetic Computing Model for Multipliers and Squarers
Haritha H, Ramesh S R
15. SUA15
Parallel-prefix modulo adders: A Review
Shaheen Khan, Zainul Abidin Jaffery
16. SUA16
A Novel Analysis to Reduce Leakage Current in Charge Plasma Based TFET
Shivendra Yadav, Dheeraj Sharma, Mohd. Aslam and Deepak Soni
17. SUA17
Design and Implementation Of Low Power High Speed Flash ADC for UWB Applications
Nishtha, Navaid Zafar Rizvi
18. SUA18
Investigation and Comparison of Phase noise and FoM of LC VCO and QVCO of 6GHz to that of a Distributed Oscillator of 3GHz with a Doubler
K. Jayaditya Narayana, Kalyan Bhattacharyya
19. SUA19
A Fuzzy based Novel Pitch Angle Control Strategy for Wind Energy System
K. A. Naik, C. P. Gupta
20. SUA20
Speed control of a DC motor using PLC and PIC Microcontroller
Upasana Sarma, P.K Bordoloi
21. SUA21
Assessment of Various MOR Techniques on an Inverter-Based Microgrid Model
Sachidananda Sen, Vishal Kumar
22. SUA22
Stochastic output feedback controller design for two tank nonlinear interacting system
Avinash Kumar Roy, Srinivasan K
23. SUA23
Estimation of the Helicopter system dynamics
D. Y. Dube and H. G. Patel
24. SUA24
Series and hybrid connection of sediment microbial fuel cell for powering Led
Jeetendra Prasad, Prof Ramesh Kumar Tripathi
25. SUA25
Power Management in Solar PV Fed Microgrid System With Battery Support
Alok Agrawal, Deepak Singh, Rajesh Gupta
26. SUA26
Renewable Energy Source based Hybrid Power Generation Scheme for Off-Grid Rural Electrification
Patel Alpeshkumar Mangaldas, Dr. Sunil Kumar Singal

27. SUA27
An Improved Aerodynamic Modeling of the Wind Turbine for the Wind Power Harvesting
Tapas Halder, Dipankar Halder, Prasenjeet Biswa
28. SUA28
Quantum Teleportation and Its Uses in Quantum Computing
Manas Gupta, Parth Gupta
29. SUA29
Breast Epithelial Duct Region Segmentation Using Intuitionistic Fuzzy Based Multi-Texture Image Map
Amoli Devesh Belsare, M. M. Mushrif, M. A. Pangarkar
30. SUA30
Triclustering of Gene Expression Microarray data using Evolutionary Approach
Shreya Mishra, Swati Vipsita
31. SUA31
Isomap based Self-taught transfer Learning for Image classification
Yovan Sethi; Vaibhav Jain; Krishna Pratap Singh; Muneendra Ojha
32. SUA32
Biclustering of Microarray Data Employing Multiobjective GA
Reshma Acharya, Swati Vipsita, Santos Kumar Baliarsingh
33. SUA33
FogGrid: Leveraging Fog Computing for Enhanced Smart Grid Network
Rabindra K. Barik, Satish Kumar Gudey, Gujji Giridhar Reddy, Meenakshi Pant
34. SUA34
Aging Related Bug Prediction using Extreme Learning Machines
Ashish Sureka, Lov Kumar
35. SUA35
Taxonomy of Texture and Color-Texture Features for Developing Hand Detection System under Non-Ideal Conditions
Songhita Misra, R. H. Laskar
36. SUA36
Automatic Ranking of CAPTCHAs based on Usability Measures
Krishna Chaurasia, Sowmya Jain, B. Sivaselvan, C. Oswald
37. SUA37
Fault Tolerance using Quadratic-Minimum Spanning Tree (Q-MST) with Secure Data Aggregation in Wireless Sensor Networks
Priyanka Nehra, , A. Nagaraju
38. SUA38
A Multi-objective Modified Particle Swarm Optimization (MMPSO) technique with an application to data
Pranesh Das , Dushmanta Kumar Das, Shouvik Dey
39. SUA39
Effect of Lateral and Angular Misalignments on Power Transfer Efficiency of a Wireless EV Charging System
Merugu Kavitha, Phaneendra Babu Bobba, Dinkar Prasad
40. SUA40
Robust Controller Synthesis for Frequency Regulation in Islanded Microgrid
Dhananajay Kumar, Nandan B R, H. D. Mathur, S. Bhanot

41. SUA41
Computation of Locational Marginal Price in power market in different load and system conditions
Ritu Jain, Vasundhara Mahajan
42. SUA42
HVDC Converter Stations Design for LCC Based HVDC Transmission System-Key Consideration
Amit Kumar, Subhasis Jhampati, Rajesh Suri
43. SUA43
MTLBO Algorithm for DG Placement in RDS to Improve Voltage Stability Index and Minimize Losses
N. Srinivas, V. S. Kale
44. SUA44
Whale optimization algorithm for fuzzy lead-lag structure SSSC damping controller design
Preeti Ranjan Sahu, Prakash Kumar Hota, Sidhartha Panda
45. SUA45
Wind Speed forecasting using empirical mode decomposition with ANN and ARIMA models
Manoj Kumar Bantupalli, Sailaja Kumari matam
46. SUA46
Modelling the effect of varying height of earth cuttings and their angles on parasitic capacitances of 25 kV AC Railway Electric Traction lines
Ravi kumaran Nair.C. , Dr. Devender Kumar Saini
47. SUA47
Power Factor Impact on Distribution Losses and Methodology to determine Distribution Losses by Load Loss Factor
Sami Rehman, Dr. Devender Saini
48. SUA48
Building Energy Management System: A Review
Majid Jamil, Sonam Mittal
49. SUA49
Design of a Synchronous Reference Frame Controller for Single Phase Standalone Photovoltaic Inverter
A. Hema Chander, Lalit Kumar
50. SUA50
Multiple Input Converter for Standalone Photovoltaic Applications
A. Hema Chander, Lalit Kumar
51. SUA51
Shunt Hybrid Active Filter By Using Cascaded H Bridge Multilevel Inverter
Muneer v, Avik Bhattacharya
52. SUA52
Multi-objective Genetic Algorithm Based Passive Filter Design for Variable Frequency Drives
Ankita Chandrakar, Subhojit Ghosh, Himanshi Verma
53. SUA53
A Stability Index Based Analytical Technique for Optimal Placement of Various DG Types in Distribution Networks
Surajit Sannigrahi, Parimal Acharjee

TECHNICAL SESSIONS

Sunday, 17 December, 2017, 11:00 - 12:00

	SU2A: Power Systems Engineering Chair: Biswarup Das, IIT Roorkee Co-Chair: Premalata Jena, IIT Roorkee	SU2B: Computer Science & Engineering Chair: Manoj Misra, IIT Roorkee Co-Chair: Sugata Gangopadhyay, Sandeep Kumar, IIT Roorkee	SU2C: Control Systems & Mechatronics Chair: Pushpraj M. Pathak, IIT Roorkee Co-Chair: Vijay Kumar, IIT Roorkee	SU2D: Microelectronics & VLSI Chair: Sudeb Dasgupta, IIT Roorkee Co-Chair: Sanjeev Manhas, IIT Roorkee
1100 – 1110	SU2A-1 A Binary Shuffled Frog Leaping Algorithm (BSFLA) Based Phase-wise Optimal PMU Deployment with Bus Prioritization Tapas Kumar Maji, P. Acharjee	SU2B-1 Big Data Regression Using Tree Based Segmentation Rajiv Sambasivan, Sourish Das	SU2C-1 A Hybrid-Bridge Asymmetrical Transformerless Five-Level Photovoltaic Inverter Kuncham Sateesh Kumar, Dr. A. Kirubakaran, N. Subrahmanyam	SU2D-1 Power Aware Study of 32-bit 5-stage Pipeline RISC CPU using 180nm CMOS Technology Pritesh Kumar Yadav, Prasanna Kumar Misra
1110 – 1120	SU2A-2 Design of a Simplified Neuro-Fuzzy-GA-based IM Drive Deploying Linearization Approach Rabi Narayan Mishra, Kanungo Barada Mohanty, Kishor Thakre, Preeti Ranjan Sahu	SU2B-2 Connectivity Restoration in Partitioned Wireless Sensor Networks Using Round Table Decision Sachin Shrivastav, Debasish Ghose	SU2C-2 Acquisition System for ECG, PPG Signals and Peak Detection Madhu Mohan, Renuka B. Menon	SU2D-2 Performance Optimization of ZnO based Thin Film Transistor for Future Generation Display Technology Abhishek Kumar Singh, Vivek Vijay Kharche, P. Chakrabarti
1120 – 1130	SU2A-3 Modified Cascaded Multilevel Inverter with Reduced Component Count Kishor Thakre, Kanungo Barada Mohanty, Haris Ahmed, Ashwini Ku Nayak	SU2B-3 A Generic Visualization Framework based on a Data Driven Approach for the Analytics data Kapil Kumar, Joy Bose, Sandeep Kumar Soni	SU2C-3 Design and Development of Moveable Furniture Mridul Gandhi, C. Gurunathan	SU2D-3 An FPGA based floating point Gauss-Seidel iterative solver Ramakant Joshi, Aman Raghuvanshi, Yatin Gilhotra, Shivani Sharma, Suyash Sharma, Preyesh Dalmia, Neeta Pandey
1130 – 1140	SU2A-4 Evaluation of All SiC MOSFET Based Voltage Source Inverter With Open Loop Induction Motor Prasun Mishra, Ramkrishan Maheshwari	SU2B-4 Emotion Classification using Dual-Tree Complex Wavelet Transform Suman Deb, Samarendra Dandapat	SU2C-4 Analysis of adverse effects due to zeros in non-minimum phase discrete-time linear systems Soumyadeep Bose, Yogesh V. Hote, Sandeep D. Hanwate	SU2D-4 Magnetic RAM based filter design for low power signal processing in IOT applications Sharath Rao, Shashikanth K S, Ranjith Srinivas, Sunita M S

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	A Bayesian Game-Theoretic Defense Strategy for False Data Injection Attacks in Smart Grid Sindhuja Mangalwedekar, Prashant Bansode, Faruk Kazi and Navdeep Singh	MEMOSA: Measuring MC/DC Of SOA Applications using Concolic Testing Arpita Dutta, SANGHARATNA GODBOLEY, D. P. Mohapatra	A Single Loop Dynamic Inversion Control for a Fighter Aircraft Executing Rapid Large Amplitude Maneuvers Bijoy K. Mukherjee, Manoranjan Sinha	Development of a DSLR Camera Trigger Circuit for Use in Impulse Facilities Sneh Deep, Gopalan Jagadeesh
1150 – 1200	SU2A-6	SU2B-6	SU2C-6	SU2D-6
		Presence of Speech Region Detection using Vowel-like Regions and Spectral Slope Information Anupama Paul, Deepshikha Mahanta, Rohan Kumar Das, Ramesh K. Bhukya, S. R. M. Prasanna		Ultra-low actuation voltage MEMS switch with tunable side wall sacrificial layer Sushil Kumar, Pushpapraj Singh
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				Micro-Bump Assignment for Efficient Routing on Re-Distribution Layer (RDL) in 3D-Ics Sabyasachee Banerjee, Subhashis Majumder, Saikat Basu, Bhargab B. Bhattacharya