

# International Conference on *Signals, Machines and Automation* (SIGMA 2018)

(23 – 25 February, 2018, NSIT Delhi)

## Best Paper Award

Day1: 23-02-2018

| Session Time            | Paper ID | Paper Title   | Author's Name   | Session Chaired By  |
|-------------------------|----------|---|---|---|
| 11:30AM<br>–<br>01:00PM | 92       | Wideband Slotted Circular Monopole Antenna with Saturn-Shaped Notch in Ground Plane   | Karishma Sharma <sup>a</sup> , Dharmendra Kumar Upadhyay <sup>a</sup> , Harish Parthasarathy <sup>a</sup> , Rohit Gurjar <sup>a</sup> | <i>Prof. Pragya Varshney</i> (NSIT Delhi)<br><i>Dr. Tarkeshwar Mahto</i> (BIT Mesra)  |
|                         | 67       | Energy Efficient Resource Allocation for LSA Array Based 5G Wireless Communication Systems Using Convex Optimization Techniques | Javaid A Sheikh <sup>a</sup> , Arshid Iqbal Khan <sup>a</sup> , Mehboob ul-Amin <sup>a</sup> , G.Mohiuddin Bhat <sup>b</sup>          | <i>Prof. Sukumar Mishra</i> (IIT Delhi)<br><i>Dr. Arun Kumar Verma</i> (MNIT Jaipur)  |
|                         | 42       | Palmprint Recognition using Novel Oriented Gabor Gradients  | Gopal <sup>a</sup> , Smriti Srivastava <sup>b</sup> , Vishal Kalra <sup>b</sup> and Ashish Joshi <sup>a</sup>                         | <i>Prof. Meena Tusir</i> (MSIT Delhi)<br><i>Dr. A.N. Jha</i> (NSIT Delhi)             |
|                         | 431      | Analyzing Risk in Dynamic Supply Chains using hybrid FUZZY AHP Model  | Umang Soni <sup>a</sup> and Vaishnavi <sup>b</sup>  | <i>Prof. S. Maheshwari</i> (NSIT Delhi)<br><i>Dr. P.K. Bajpai</i> (NSIT Delhi)        |
| 03:30PM<br>–<br>05:00PM | 157      | Efficient Multistage Bandwidth Allocation Technique for Virtual Machine Migration in Cloud Computing                            | Aditya Bhardwaj <sup>a</sup> and C. Rama Krishna <sup>a</sup>   | <i>Prof. Vinit Kumar</i> (NSIT Delhi)<br><i>Dr. Bhavnesh Kumar</i> (NSIT Delhi)       |
|                         | 355      | Optimal Test Sequence Generation in State Based Testing Using Moth Flame Optimization Algorithm                                 | Rashmi Sharma <sup>a</sup> , and Anju Saha <sup>b</sup>   | <i>Prof. Maneesha Gupta</i> (NSIT Delhi)<br><i>Dr. Tarun Kumar Rawat</i> (NSIT Delhi) |
|                         | 254      | Analysis of EEG Signals for Emotion Recognition using Different Computational Intelligence Techniques                           | <sup>a</sup> Papia Ray and <sup>b</sup> Debani Prasad Mishra  | <i>Prof. Smriti Srivastava</i> (NSIT Delhi)<br><i>Dr. Soumya Sasmal</i> (NSIT Delhi)  |
|                         | 412      | Reckoning Number of Eye Blinks Using Eye Facet Correlation for Exigency Detection   | Puneet Singh Lamba <sup>a</sup> and Deepali Virmani <sup>b</sup>  | <i>Dr. A.K. Yadav</i> (NIT Sikkim)<br><i>Dr. Umang Soni</i> (NSIT Delhi)              |

# Best Paper Award

Day2: 24-02-2018

| Session Time                     | Paper ID | Paper Title  | Author's Name  | Session Chaired By   |
|----------------------------------|----------|--|--|--|
| <b>11:00AM<br/>–<br/>12:30PM</b> | 85       | Fault Classification and Faulty Phase Selection Using Symmetrical Components of Reactive Power for EHV Transmission Line           | <sup>a</sup> Piyush Khadke, <sup>b</sup> Nita Patne, and <sup>c</sup> Sahitya Bolisetty  | <i>Prof. Majid Jamil (JMI Delhi)<br/>Dr. Papiya Ray (VSSUT, Odisa)</i>                   |
|                                  | 470      | Design of Flip-Flops using Reversible DR Gate  | Anurag Govind Rao <sup>a</sup> , Dr. Anil Kumar dhar Dwivedi <sup>b</sup>  | <i>Prof. Dr. D.K. Upadhyay (NSIT Delhi)<br/>Dr. Naveen K Sharma (PTU Punjab)</i>         |
|                                  | 349      | Performance Analysis of Supercapacitor Integrated PV Fed Multistage Converter with SMC Controlled VSI for Variable Load Conditions | <sup>a</sup> Shruti Pandey, <sup>a</sup> Bharti Dwivedi, and <sup>a</sup> Anurag Tripathi                                      | <i>Prof. Dr. Nishchal Verma (IIT Kanpur)<br/>Dr. M.Rizwan (DTU Delhi)</i>                |
|                                  | 150      | Neural Reinforcement Learning Classifier for Elbow, Finger and Hand Movements  | Amit Kukker <sup>a</sup> and Rajneesh Sharma <sup>a</sup>  | <i>Prof. Narendra Kumar (DTU Delhi)<br/>Dr. A.N. Jha (NSIT Delhi)</i>                    |
| <b>03:00PM<br/>–<br/>04:30PM</b> | 189      | Performance Evaluation of Fuzzy Controller for Boost Converter with Active PFC   | Mohammed Asim <sup>a,*</sup> , Ahmed Riyaz <sup>b</sup> , Saurabh Tiwari <sup>a</sup> and Archana Verma <sup>a</sup>           | <i>Prof. Imtiaz Ashraf (AMU Aligarh)<br/>Prof. Atif Iqbal (Qatar University, Qatar)</i>  |
|                                  | 375      | Implementation of Current Mode Integrator for Fractional orders n/3  | <sup>a</sup> Divya Goyal and <sup>b</sup> Pragya Varshney  | <i>Prof. Parul Garg (NSIT Delhi)<br/>Dr. Monika Gupta (MSIT Delhi)</i>                   |
|                                  | 215      | Friends Recommender System based on Status (StatusFRS) for Users of Overlapping Communities in Directed Signed Social Networks     | Nancy Girdhar and K.K. Bharadwaj   | <i>Prof. K.P.S. Rana (NSIT Delhi)<br/>Dr. Hema Khanna (NSIT Delhi)</i>                   |
|                                  | 367      | Comparative Study of Classical and Fuzzy-Regulator in Five Phase Synchronous Machine Control With Open Phase                       | <sup>a</sup> Hicham Kesraoui, <sup>b</sup> Mohammed Abdulla Al-Hitmi, <sup>b</sup> Khaliqur Rahman and <sup>b</sup> Atif Iqbal | <i>Prof. Rachna Garg (DTU Delhi)<br/>Dr. Mohd Tariq (NTU Singapore)</i>                  |
| <b>04:45PM<br/>–<br/>06:00PM</b> | 235      | Raw Sequence to Target Gene Prediction: An Integrated Inference Pipeline for ChIP-seq and RNA-seq Datasets                         | <sup>a</sup> Nisar Wani and <sup>b</sup> Khalid Raza   | <i>Dr. Monika Gupta (MSIT Delhi)<br/>Dr. Sanjay Aggarwal (IGNOU Delhi)</i>               |
|                                  | 224      | Fuzzy Concept Map Generation from Academic Data Sources  | <sup>a</sup> Rafeeq Ahmed and <sup>a</sup> Tanvir Ahmad  | <i>Prof. Duru Arun Kumar (NSIT Delhi)<br/>Dr. Arvind Dhaliya (NSIT Delhi)</i>            |
|                                  | 376      | Reliability of PMU using Fuzzy – Markov Dynamic Method   | <sup>a</sup> Pramod Kumar, <sup>a</sup> Poonam Juneja and <sup>b</sup> Rachna Garg   | <i>Prof. Shahida Khatoon (JMI Delhi)<br/>Dr. Saurabh Bhargava (Thapar Univ. Patiala)</i> |

# Best Paper Award

Day3: 25-02-2018

| Session Time            | Paper ID | Paper Title   | Author's Name  | Session Chaired By   |
|-------------------------|----------|---|--|--|
| 11:45AM<br>–<br>01:00PM | 384      | Cooperative Spectrum Sensing Using Eigenvalue-based Double Threshold Detection Scheme for Cognitive Radio Networks                    | Chhagan Charan <sup>a</sup> and Rajoo Pandey <sup>a</sup>  | <i>Prof. Duru Arun Kumar</i> (NSIT Delhi)<br><i>Dr. Vikash Maheshkar</i> (NSIT Delhi)      |
|                         | 200      | Controller Design for DOHA Water Treatment Plant using Grey Wolf Optimization   | <sup>a</sup> Natwar S. Rathore,<br><sup>a</sup> V. P. Singh and<br><sup>b</sup> Bhavnesk Kumar   | <i>Dr. M.Saad Bin Arif</i> (UTM Malaysia)<br><i>Dr. Manoj Lonkar</i> (CG Mumbai)           |
|                         | 248      | Decrypting Wrist Movement from MEG Signal Using SVM Classifier  | Abdulla Shahid <sup>a</sup> , Mohd Wahab <sup>a</sup> , Nidal Rafiuddin <sup>a</sup> , M. Saad Bin Arif <sup>a</sup> , and H Malik <sup>b</sup>            | <i>Dr. Saurabh Bhardwaj</i> (Thapar Univ. Patiala)<br><i>Dr. Parul Arora</i> (HMR Delhi)   |
|                         | 113      | Task-Space Pose Decomposition Motion Control of A Mobile Manipulator  | Muralidharan Mohanakrishnan <sup>a</sup> and Santhakumar Mohan <sup>a</sup>  | <i>Prof. Smriti Srivastava</i> (NSIT Delhi)<br><i>Dr. Anuradha Tomar</i> (HMR Delhi)       |
|                         |          |   |  |  |
| 03:30PM<br>–<br>05:00PM | 386      | Modeling of Fractional Order Chaotic Systems using Artificial Bee Colony Optimization and Ant Colony Optimization                     | <sup>a</sup> Sangeeta Gupta,<br><sup>a</sup> Varun Upadhyaya,<br><sup>a</sup> Ayush Singh, <sup>a</sup> Pragya Varshney and <sup>a</sup> Smriti Srivastava | <i>Prof. Bharat Bhushan</i> (DTU Delhi)<br><i>Dr. Pragya Varshney</i> (NSIT Delhi)         |
|                         | 241      | A PSO base Search for Optimal Tuning and Fixing of UPFC to Improve Usefulness of Distribution System                                  | Shiva Pujan Jaiswal <sup>a</sup> , and Vivek Shrivastava <sup>b</sup>  | <i>Prof. Amit Prakash Singh</i> (GGSIPIU Delhi)<br><i>Dr. Rajneesh Sharma</i> (NSIT Delhi) |
|                         | 242      | Material Removal Rate Prediction of EDDG of PCBN Cutting Tool Inserts Based on Experimental Design and Artificial Neural Networks     | <sup>a</sup> Rohit Shandley ,<br><sup>a</sup> Siddharth Choudhary and <sup>a</sup> S. K. Jha   | <i>Prof. S.P. Singh</i> (REC Ambedkar Nagar)<br><i>Dr. Bhavnesk Kumar</i> (NSIT Delhi)     |
|                         | 301      | A comparative Simulation Study of different Sensorless Permanent Magnet Synchronous Motor Drives Using Neural network and Fuzzy Logic | Md. Tabrez <sup>a</sup> Farhad Ilahi Bakhshb and Mahboob Hassanc   |  |