

ASPCON 2018

PROGRAMME SCHEDULE

Day 1: 7th December 2018 (Friday)		
Time	Program	Venue
1:30 pm to 3:00 pm	Registration	Dr. Triguna Sen Auditorium Jadavpur University (Main Campus)
3:00 pm to 4:00 pm	Inauguration	
4:00 pm to 5:00 pm	Keynote Address	
5:00 pm	High Tea	

Day 2

Date : 08th December, 2018
Time : 10:00 am to 11:30 am

Technical Session: 1
Venue : Dr. Triguna Sen Auditorium

Paper ID	Paper Title
5	Fractional-Order Controller for the Position Control of a DC Motor <i>Shreeparna Chakraborty, Sushmita Roy and Ujjwal Mondal</i>
10	Fractional-Order Controller for Automatic Voltage Regulator <i>Sushmita Roy, Shreeparna Chakraborty and Ujjwal Mondal</i>
81	Robust Stabilization of Cart Inverted Pendulum System by 2-Rate Controller <i>Tasmita Saha, Nirmal Murmu, Sayantan Chakraborty and Madhubanti Maitra</i>
85	Adaptation Switching Technique Based Hybrid Fuzzy Controller for a Class of Nonlinear Systems <i>Anupam Paul and Kaushik Das Sharma</i>
101	Real-time performance evaluation of a fuzzy rule based set point weighted PID controller <i>Biswajit Chakraborty, Kausik Sen and Chanchal Dey</i>
82	Performance Evaluation of 2-Degrees-of-Freedom 2-Periodoc Controller: Stabilization of Cart-inverted Pendulum System <i>Spandita Das, Sayantan Chakraborty and Madhubanti Maitra</i>

Day 2

Date : 08th December, 2018

Time : 10:00 am to 11:30 am

Technical Session: 1

Venue : H. L. Roy Auditorium

Paper ID	Paper Title
22	A Bioinspired Temperature Invariant Underwater Optical Wireless Communication System <i>Venkatesh Chakravartula and Dhanalakshmi Samiappan</i>
23	A Faster High-Dimensional Bilateral Image Filtering by Efficient Utilization of Color Sparseness Offline <i>Apurba Das, Vinayak S Shenoy, Tanush Vinay and Shylaja S S</i>
35	Development of Speed Control algorithm for Instrumented Pipeline Inspection Gauge (IPIG) in high speed liquid petroleum pipelines <i>Shilpi Saha, Debmalya Mukherjee, S.K. Lahiri and P.P. Marathe</i>
59	A Novel Feature Extraction-based Human Identification Approach using 2D Ear Biometric <i>Anima Pramanik, Apurba Gorai, Sobhan Sarkar and Phalguni Gupta</i>
68	Signal Processing Issues in FPGA Implementation of 3D Beamformer Using Adaptive Algorithms <i>Tanmoy Kundu, Salil Kumar Sanyal and Iti Saha Misra</i>
74	A Hybrid IRLS-KSVD Based Dictionary Learning Algorithm For Human Behavior Recognition <i>Pubali De, Amitava Chatterjee and Anjan Rakshit</i>
73	Prefilter-Equalizer Based Structure : A New Design Strategy for Narrow-band FIR Filters <i>Arnab Ghosh, Subhabrata Roy and Abhijit Chandra</i>

Day 2

Date : 08th December, 2018
Time : 11:45 am to 1:15 am

Technical Session: 2
Venue: H.L.Roy Auditorium

Paper ID	Paper Title
11	A SVM based Classifier for Identification of Spurious Resistance Fault involving IGBTs in VSI based Induction Motor Drive <i>Indrayudh Bandyopadhyay, Prithwiraj Purkait and Chiranjib Koley</i>
80	ANN technique based Mid Term Load Forecasting as a case study for Peak Load Reduction <i>Ayandeep Ganguly, Kuheli Goswami and Arindam Kumar Sil</i>
84	A Comprehensive Model of Induction Motor for emulating different electrical Faults <i>Susanta Ray, Toulak Chakraborty and Jayeeta Chaudhuri</i>
24	High Impedance Fault Classification in UPFC Compensated Double Circuit Transmission Lines using Differential Power Protection Scheme <i>Madhumita Kundu Mondal</i>
57	Applied Machine Learning for Bearing Fault Prognostics <i>Ronak Bhadra, Siddharth Dutta, Akash Kedia, Satyam Gupta, Parth Panigrahy and Paramita Chattopadhyay</i>
63	Time Delay Estimation of Ultra High Frequency Signals Radiated from Partial Discharge Sources <i>Chiranjib Koley and Anitha Bhukya</i>
90	Handwritten Indic Character Recognition using Capsule Networks <i>Nibaran Das, Swarnendu Ghosh, Ritesh Sarkhel, Bodhisatwa Mandal and Suvam Dubey</i>

Day 2

Date : 08th December, 2018
Time : 11:45 am to 01:15 pm

Technical Session: 2
Venue : Dr. Triguna Sen Auditorium

Paper ID	Paper Title
18	Compression of Multilead Electrocardiogram Using Principal Component Analysis and Machine Learning Approach <i>Soumyendu Banerjee, Rajarshi Gupta and Jayanta Saha</i>
34	EEG Based Decision Support System to Diagnose Adults with ADHD <i>Simranjit Kaur, Sukhwinder Singh, Priti Arun and Damanjeet Kaur</i>
77	EEG-based Biometric Identification using Frequently Occuring Maximum Power Spectral Features <i>Jijomon C.M.and Vinod A.P.</i>
50	A Local Zernike Moment-based Fuzzy C-means Algorithm for Segmentation of Brain Magnetic Resonance Images <i>Anu Bala and Chandan Singh</i>
102	Cross Teager Kaiser Energy Features for Detection and Classification of Cardiac Arrhythmia from ECG Signals <i>Subhabrata Naskar, Atreyee Saha, Debangshu Dey and Sugata Munshi</i>
28	A Novel Optic Disc and Blood Vessel Detection Algorithm. <i>Moumita Sahoo, Saurabh Pal and Madhuchhanda Mitra</i>

Day 2
After Lunch Break

Date : 08th December, 2018
Time : 2:30 pm to 04:00 pm

Technical Session: 3
Venue : Dr. Triguna Sen Auditorium

Paper ID	Paper Title
46	Introducing New Wavelet based Feature Set for Speech Emotion Classification <i>Tanmoy Roy, Tshilidzi Marwala, Snehashish Chakraverty and Satyakama Paul</i>
61	Speech Enhancement Using RNN models and Ideal Exponential Mask <i>Anirban Panda</i>
79	Emotion Recognition from Speech Signals using Excitation Source and Spectral Features <i>Akash Roy Choudhury, Anik Ghosh, Rahul Pandey and Subhas Barman</i>
75	Identifying Potential Hubs for Kidney Renal Clear Cell Carcinoma from TF-miRNA-Gene Regulatory Networks <i>Sagnik Sen, Ashmita Dey and Ujjwal Maulik</i>
93	Detection And Classification Technique Of Breast Cancer Using Multi Kernal SVM Classifier <i>Pramit Brata Chanda and Subir Kumar Sarkar</i>
76	Defect Classification of Printed Circuit Boards based on Transfer Learning <i>Barnajit Ghosh, M. K. Bhuyan, Pradipta Sasmal, Yuji Iwahori and Prathik Gadde</i>

Day 2

After Lunch Break

Date : 08th December, 2018
Time : 2:30 pm to 04:00 pm

Technical Session: 3
Venue : H.L.Roy Auditorium

Paper ID	Paper Title
19	A Single Ended Wavelet Based Fault Classification Scheme in Transmission Line <i>Alok Kumar</i>
20	Smart Load for Reactive Power Compensation and Harmonic Suppression in Distribution System <i>Anushree Roy and Sudipta Debnath</i>
91	A Novel Distance-Connectivity based Bus-Ranking Framework Supplemented by GA for Cost Optimized PMU Placement <i>Rupanjali Bhattacharjee and Abhinandan De</i>
60	Virtual Instrument for Measurement of Power Quality in Unbalanced Three Phase System <i>Subhra De and Sudipta Debnath</i>
21	ANN Based Method for Power System Harmonics Estimation. <i>Subhamita Roy and Sudipta Debnath</i>

Day 2

Date : 08th December, 2018
Time : 4:15 pm to 5:45 pm

Technical Session: 4
Venue : H.L.Roy Auditorium

Paper ID	Paper Title
39	Automated lux measurement for lighting design in indoor space using mobile sensor <i>Arijit Ghosh, Palash Kumar Kundu and Gautam Sarkar</i>
44	Deriving an electrical model of a two terminal piezoelectric buzzer from its impedance response <i>Debojyoti Banerjee, Paramita Banerjee, Bhaswati Goswami and Ratna Ghosh</i>
58	Robust Control of Buck Converter using H-infinity Control Algorithm <i>Sharmistha Mandal and Debarchita Mishra</i>
100	CONTROL OF CHAOS IN BLDC MOTOR DRIVE <i>Abhijit Patra, Krishnendu Chakrabarty and Tridibesh Nag</i>
45	Design and calibration of a multi-channel low voltage data acquisition system <i>Arindam Sarkar, Somen Biswas, Gaytri Datwal, Sayantan Debnath, Bhaswati Goswami and Ratna Ghosh</i>
94	Real time measurement and analysis of non-linearity injected by computer loads in LT distribution system using LabVIEW. <i>Kaushik Sit and Ajoy Kumar Chakraborty</i>

Day 2

Date : 08th December, 2018
Time : 4:15 pm to 5:45 pm

Technical Session: 4
Venue : Dr. Triguna Sen Auditorium

Paper ID	Paper Title
37	Analysis of major mode of vibration of a RFA based dental implant stability measuring sensor with varying length of L arm <i>Paramita Banerjee, Ratna Ghosh and Bhaswati Goswami</i>
17	Design and Implementation of IoT Based Smart Energy Meter <i>Saikat Saha, Swagata Mondal, Anindya Saha and Prithwiraj Purkait</i>
27	Temperature Measurement by Thermal Tomography in a Chamber <i>Chayan Kumar Basak, Palash Kumar Kundu and Gautam Sarkar</i>
38	Electrical equivalent cascade model of piezoelectric based sensor <i>Paramita Banerjee and Ratna Ghosh</i>
41	A Smart Irrigation System <i>Arijit Ghosh, Sraddha Chakraborty, Avrajit Ghosh, Prajjwal Mondal, Asmita Mondal and Madhumita Guha</i>
47	Implementation of a novel Minimum Energy Consume Secure Routing Protocol for reliable and energy efficient rescue operation of FANET <i>Swati Chowdhuri, Sriparna Banerjee and Sheli Sinha Chaudhuri</i>

Day 3

Date : 09th December, 2018

Time : 10:00 am to 11:30 am

Technical Session: 1

Venue : H. L. Roy Auditorium

Paper ID	Paper Title
56	Super-Resolution of Textual Images using Autoencoders for Text Identification <i>Subarno Pal, Susovan Jana and Ranjan Parekh</i>
67	A Modular Approach For Facial Expression Recognition using Euler Principal Component Analysis (e-PCA) <i>Sujata Prakesh, Maitry Trivedi and Suman K Mitra</i>
78	Classification of Polyps in Capsule Endoscopic Images using CNN <i>Pradipta Sasmal, Yuji Iwahori, M. K. Bhuyan and Kunio Kasugai</i>
92	Image Segmentation For Fingerprint Recognition <i>Wassim El Hajj Chehade, Riham Abdel Kader, Rola Kassem and Ali El-Zaart</i>
31	Adulteration Detection of Grape Fruit Juice using PCA and LDA Pattern Recognition Technique <i>Hemanta Naskar, Vikas Nandeshwar and Siuli Das</i>
87	Unconstrained Band-pass Optimized Correlation Filter (UBoCF): An application to face recognition <i>Amith Achuthanunni, Ratul Kishore Saha and Pradipta Banerjee</i>

Day 3

Date : 09th December, 2018
Time : 10:00 am to 11:30 am

Technical Session: 1
Venue : Dr. Triguna Sen Auditorium

Paper ID	Paper Title
26	Deriving a linear model for passively acquired bio-potentials using sample ACF <i>Somali Nandy, Bhaswati Goswami and Ratna Ghosh</i>
29	Multivariate Singular Spectral Analysis (MSSA) to explore geomagnetic storm and CME bond <i>Anirban Chattopadhyay, Mofazzal H. Khondekar and Anup Kr. Bhattacharjee</i>
62	Force Control of an Index Finger Exoskeleton for Rehabilitation Purpose <i>Madhusree Mondal, Parmita Mondal and Felix Orlando</i>
64	Comparison of Different Data Pre-processing Techniques for the analysis of Turmeric Powders towards discrimination using Near-infrared Transmittance Spectra and Exploratory Data Analysis <i>Saumita Kar, Bipan Tudu and Rajib Bandyopadhyay</i>
72	Multifractal Analysis of the 10.7cm solar radio flux data <i>Amrita Prasad, Soumya Roy, Subhash.Chandra Panja and Sankar Narayan Patra</i>

Day 3

Date : 09th December, 2018
Time : 11:45 am to 01:15 pm

Technical Session: 2
Venue : H.L.Roy Auditorium

Paper ID	Paper Title
52	<p>Snickerometer Edge Detection by Feature Extraction in TF Plane and Wavelet Domain</p> <p><i>Avrajit Ghosh, Ayan Chatterjee, Arani Roy, Amitava Mukherjee and Mrinal Naskar</i></p>
25	<p>System Identification of an AVR and its Control using Finite Dimensional Repetitive Controller</p> <p><i>Joydeep Mahato, Sougata Kumar Das and Ujjwal Mondal</i></p>
70	<p>Scene-Change Detection using Locality Preserving Projections</p> <p><i>Luv Patel, Kush Patel, Purvi A Koringa and Suman K Mitra</i></p>
95	<p>Large-Scale Brain Network Modelling Using Graph-Theory Approach in Neuroscience.</p> <p><i>Sneha Ray, Rajanikant Panda and Rose Dawn Bharath</i></p>
48	<p>Optimization of Electrode Array in Electronic Tongue for Classification of Black Tea.</p> <p><i>Srikanta Acharya, Trisita Nandy Chatterjee, Soumen Mukherjee, Runu Banerjee Roy, Bipan Tudu, Rajib Bandyopadhyay and Debangana Das</i></p>

Day 3

Date : 09th December, 2018

Time : 11:45 am to 01:15 pm

Technical Session: 2

Venue : Dr. Triguna Sen Auditorium

Paper ID	Paper Title
69	Detection of Healthy and Neuropathy Electromyograms Employing Stockwell Transform <i>Sayanjit Singha Roy, Ramkrishna Jana, Ritwick Barman, Sudip Modak, Preyashu Halder, Rohit Bose and Soumya Chatterjee</i>
55	Multiplier-less Hardware Realization of Trigonometric Functions for High Speed Applications <i>Debaprasad De, Archisman Ghosh, K. Gaurav Kumar, Anurup Saha and Mrinal K. Naskar</i>
66	Photonic Network-on-Chip (NoC) Architectures for the High Performance Computing Systems <i>Sayani Sarkar</i>
96	Studies on the effects of Al ₂ O ₃ and TiO ₂ Nano materials on Conduction Properties of Mineral oil and Natural Ester based fluid <i>Biswajit Chakraborty, Yashaswi Raj, Nasirul Haque, Biswendu Chatterjee and Sovan Dalai</i>
97	A Comparative Study between Two Types of Contaminants Based On 11 kV Glass Disc Insulator <i>Sanmoy Chakraborty, Sanjoy Podder, Sudeshna Nath and Suhas Deb</i>
98	Effect of Measurement Temperature on Interfacial Charge Freed from Deep Traps Located at the Interface of Oil-Paper Insulation. <i>Debasmit Dey, Angan Sarkar, Sounak Paul, Aman Kumar, Deepak Mishra, Arijit Baral, Nasirul Haque and Sivaji Chakravorti</i>

99	<p data-bbox="583 155 1534 221">Effect of Measurement Temperature of Insulation Poles Used for Assessment of Oil-paper Insulation</p> <p data-bbox="671 229 1446 260"><i>Ravi Verma, Deepak Mishra, Arijit Baral and Sivaji Chakravorti</i></p>
83	<p data-bbox="607 275 1508 341">Day Ahead Forecasting and Peak load management using multivariate Auto Regression Technique</p> <p data-bbox="692 350 1423 380"><i>Kuheli Goswami, Ayandeep Ganguly and Arindam Kumar Sil</i></p>