

**Accepted (provisional) paper list of ASPCON 2020**

<b>PID</b>	<b>Title</b>	<b>Corresponding Author</b>
10	A Depthwise Separable Convolution Architecture for CNN Accelerator	Shri Harsh Srivastava
17	A Review On Demand Response Techniques Of Load Management In Smart Grid	Smt Kamalika Banerjee
20	Photoplethysmogram Signal Quality Evaluation by Unsupervised Learning Approach	Smt Monalisa Singha Roy
26	Feature selection for attention demanding task induced EEG detection	Shri Vivek Raj
27	Segment Specific Modeling of Electrocardiogram for Improved Reconstruction Error	Prof Rajarshi Gupta
28	Study of Asymmetric Behavior of Soft X-Ray Flares during Solar Cycle 24	Dr Amrita Prasad
33	Spotting misinformation to limit the impact of disruption on society by using machine learning	Deblina Kar
37	Spatially Constrained Likelihood-based Fuzzy Entropy Clustering Algorithm and its Application to Noisy 3D Brain MR Image Segmentation	Nabanita Mahata
40	Classification of Text regions in a Document Image by Analyzing the properties of Connected Components	Shri Showmik Bhowmik
44	Feedback Control Topology of n-DOF Robotic Manipulator and Optimal Positioning of End- Effector using PSO	Shri Soumyendu Banerjee
45	Multiple Objective Modelling by Forming Dynamic Clusters of Peak Loads and Distributed Generations for Energy Management in Grid Connected Mode	Prof Nayan Manna
50	A Control Systems Laboratory Experiment on Transfer Function Emulation	Dr Suvarun Dalapati
54	An Efficient Multiplier-less Hardware for Hidden Periodicity Detection Using Ramanujan Filter Bank	Shri Arghadip Das
56	Effect of Linewidth Enhancement Factor on the second Harmonic Distortion of a Directly modulated and Injected Fabry-Perot Semiconductor Laser	Prof Taraprasad Chattopadhyay
61	Dynamic Range Improvement of Backscattered Optical Signals using Signal Processing Techniques	Shri Ramji Tangudu
62	Latitudinal Dependency of Solar Irradiance - Solar Flare Index Relation over India during 1986–2018	Shri Soumya Roy
69	Performance Comparison of Neural Network based Equalizers for Wireless Communication Channels	Dr Harish Kumar Sahoo
70	FPGA Implementation of Phase Disposition PWM (PD-PWM) Strategy for Cascaded H-Bridge Multilevel Inverter (CHB-MLI)	Shri Rishiraj Sarker
71	A Pencil Drawn Capacitive Sensor Used for Liquid Drug Volume Measurement in Syringe Pump	Dr Subir Das
72	Removal of Noises from an ECG Signal Using an Adaptive S-Median Thresholding Technique	Smt Anushka Gon
73	A Novel Framework for Enhancement of Diagnostic Information in MRI using Deep Super-Resolution	Dr Sumit Datta
77	Classification of Tea Samples Using Learning Vector Quantization Neural Network	Prof Madhusree Kundu
79	Stabilization of Cart Inverted Pendulum System by 2-rate controllers based on PSO technique	Smt Tasmita Saha
81	Plant Disease Detection Using CNN	Naiwrita Dey
82	Fusion of Mathematical Morphology with Adaptive Gamma Correction for Dehazing and Visibility Enhancement of Images	Biswarup Ganguly
83	A Smart-Band Operated Wrist Rehabilitation Robot	Dr Subir Das
84	Secrecy Performance of an improved Interference-aided RF Energy Harvesting scheme in Two-Way Multi-Antenna Relay Network	Chandrima Thakur

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86	Measuring the degree of suitability of Edge Detection Operators prior to an application	Dakshina Ranjan Kisku
88	An optimized Fractional-Order PID (FOPID) Controller for a non-linear conical tank level process	Mary Ann George
89	Operational Transconductance Amplifier (OTA) based Schmitt Trigger without any passive elements	Sharath Gowda T D G
91	Low SNR Spatially Sparse Channel Estimation in Millimeterwave Hybrid MIMO Systems based on Adaptive Filtering Framework	Bijit Kumar Das
92	Epileptic Seizure Detection Based on Gramian Angular Field Transformation and Deep Learning	Anand Shankar
93	Mitigating inter-area oscillation of an interconnected power system considering time varying delay	Anirban Sengupta
96	Pneumonia Detection Using Ensemble of Resnet-34 Based U-Net and Efficient NetB4 based U-Net	Ayush Pant
97	Locality Preserving Projection Based Multiple Copy-move Tampering Detection	Anjali Diwan
99	A novel approach to detect and classify fruits using ShuffleNet V2	Suprava Patnaik
102	Person Identification Using Spatial Variation of Cardiac Signal	Debasish Jyotishi
110	Estimation of Mesopic Adaptation Luminance under Different Surrounding Lighting Ambience	Sangita Sahana
113	Enhanced Normalized Mutual Information for Localization in Noisy Environments	Samuel Todd Flanagan
115	EMG Artifacts Removal from Multi-Channel EEG Signals using Multi-Channel Singular Spectrum Analysis	Rafi Ahamed Shaik
116	A Convex Optimization Based Path Planning Algorithm for Robot Motion in Constrained Space	Mitali Sil
117	An approach to control “Magnitude Modulation index” of Electric Spring for improved performance	Subrata Biswas
120	Morphological Filter Aided GMM Technique for Lung Nodule Detection	Amitava Halder
124	Linearized Receding Horizon Model Predictive Controller Design to Regulate Glucose in Type 1 Diabetic Patients	Debasis Acharya
125	Analytical Model of a Strain Induced Lateral Channel Workfunction Engineered Surrounding Gate MOSFET	Navjeet Bagga
129	Retinal Disease Classification from Optical Coherence Tomographical Scans using Multilayered Convolution Neural Network	Rajarshi Bhadra
130	Real time condition monitoring system for LED luminaries – An approach	Amartya Roy
131	An Evaluation of Machine Learning Classifiers for Detection of Myocardial Infarction Using Wavelet Entropy and Eigenspace Features	Shri Pharvesh S Choudhary
132	Design of Decentralized Model Predictive Controller to Eliminate Low Frequency Oscillation in Power System	Anirban Sengupta
134	An Efficient Deep Learning Strategy: Its Application in Sclera Segmentation	Sumanta Das
135	Enhanced QoS Performance with Reduced Route Overhead by Ant Colony Optimization Algorithm for VANET	Sreya Ghosh
137	Generalized Benford’s Law for Fake Fingerprint Detection	N. B. Puhan
139	Improved Endoscopic Polyp Classification using GAN Generated Synthetic Data Augmentation	Pradipta Sasmal
140	Deep Network based Hand Gesture Recognition using Optical Flow guided Trajectory Images	Debajit Sarma
141	Occlusion Robust Object Tracking with Modified Particle Filter Framework	Pradipta Sasmal
142	OFMT: Optical Flow guided Motion Template for Hand Gesture Recognition	Debajit Sarma

### Accepted (provisional) paper list of ASPCON 2020

143	Development of an android platform for monitoring QCM sensor-array based Electronic Nose	Nilava Debabhut
148	Neuromuscular Disease Detection Employing 1D Local Binary Pattern of Electromyography Signals	Pranabendra Prasad Chandra
151	Application of Computer Intelligence Method to Detect Islanding Phenomena in Microgrid Network	Koushik Chatterjee
152	Hardware Implementation of Image Dehazing Mechanism using Verilog HDL and Parallel DCP	Avra Ghosh
153	Performance Analysis of a Particle Swarm Optimization based Localization Algorithm in Wireless Sensor Network	Tapan Kumar Mohanta
154	Vision Based Communicator	H Pallab Jyoti Dutta
155	Hand Gesture Localization and Classification by Deep Neural Network for Online Text Entry	H Pallab Jyoti Dutta
156	Design of a Low Power High Speed CML-Based Divide-by-5 Pre-Scaler in 180 nm Process Technology	Subhanil Maity
157	Optimal Coordination of Over-current Relay Using Particle Swarm Optimization (PSO) Algorithm	Pankaj Kumar Choudhary
158	Finite Impulse Response Filter Design using Grasshopper Optimization Algorithm and Implementation on FPGA	Raina Modak Aich
159	Incremental Conductance based Adaptive Poleplacement MPPT Controller Design for Solar Photo Voltaic System	Jagadeshwar Maddikari
161	Writer Identification based on Writing Individuality and Combination of features	Salankara Mukherjee
162	Throughput and Error Function Joint optimization for CSS Based Field Area Network for Various Fading Environment	Suaditya Majumdar
167	Prediction of Andrographolide Content in Andrographis paniculata Using NIR Spectroscopy	Dilip Sing
174	Multiscale convolutional neural network for detecting paroxysmal atrial fibrillation from single lead ECG signals	Eedara Prabhakararao
175	Correlation Factor-based Fault-Phase Detection for Series Compensated Transmission Line	N V Phanendra Babu
176	Assessment of Pain using Optimized Feature Set from Corrugator EMG	Pallab Das
180	Studies on Ageing Status of Epoxy Nano-Composites for Dry-Type Insulation using Electric Modulus	Subhajit maur
181	Application of Return Voltage Measurement for Space Charge Detection and Measurement in LDPE	N Haque
182	Nonlinear PI or PD Controller using Fuzzy Logic-Analytical Modelling, and Computational and Performance Analysis	N K Arun
183	A Scheme For Local Lightning Detection And Prediction System	Banibrata Ghosh

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