

## PRESENTATION SCHEDULE

### Technical Session 1

Chair: Prof. Soumik Roy  
Co-Chair: Dr. Dileep Kumar Yadav

2nd July 2020  
1:30-4:00 P.M. (IST)

Paper ID	Presenter	All Authors	Paper Title
56	Arpita Nath Boruah	Arpita Nath Boruah, Saroj Kumar Biswas, Sivaji Bandyopadhyay, Sunita Sarkar	Expert System to Manage Parkinson Disease by Identifying Risk Factors: TD-Rules-PD
59	Suma Dawn	Suma Dawn, Utkarsh Saraogi, Utkarshi Singh Thakur	Agent-based Learning for Auto-Navigation within the Virtual City
66	Abhinaba Dattachaudhuri	Abhinaba Dattachaudhuri, Saroj Kumar Biswas, Sunita Sarkar, Arpita Nath Boruah, Manomita Chakraborty, Biswajit Purkayastha	Transparent Neural based Expert System for Credit Risk (TNESCR): An Automated Credit Risk Evaluation System
68	Yuvraj Pal	Ritu Raj, Yuvraj Pal, Murali Mohan Bosukonda	Control of a Twin Rotor MIMO System using a TS Fuzzy TITO PD Controller
78	Inthiyaz Basha Kattubadi	Inthiyaz Basha Kattubadi, Rama Murthy Garimella	Novel Deep Learning Architectures: Feature Extractor, Radial Basis Function Neural Networks
80	Anju Khandelwal	Anju Khandelwal, Avanish Kumar	Evaluation of Service Time in DCS using Fuzzy, Clustering Technique
83	Lakshmi Dutta	Lakshmi Dutta, Dushmanta Kumar Das	An Ensemble Kalman Filter based Explicit Nonlinear Model Predictive Control design for Two Degree Freedom of Helicopter Model
84	Lakshmi Dutta	Lakshmi Dutta, Dushmanta Kumar Das	A Linear Model Predictive Control design for Magnetic Levitation System
86	Sneha Thombre	Sneha Thombre	Freeware Solution for Preventing Data Leakage by Insider for Windows Framework
92	Shilpa Chaman	Shilpa Chaman	Techniques for Compressing Deep Convolutional Neural Network
97	Thaisa Jawhly	Thaisa Jawhly, Ramesh Chandra Tiwari	Path loss modelling: A GIS-based approach
99	Md. Atiqur Rahman	Md. Atiqur Rahman, Pankaj Sarkar	A Novel Compact Dual-mode Substrate Integrated Waveguide Cavity Based Bandpass Filter For WLAN Applications

**Maximum Time Allocated Per Paper: 10+2 Minutes**

## PRESENTATION SCHEDULE

### Technical Session 2

Chair: Dr. Ashis Maity  
Co-Chair: Dr. Kavicharan Mummaneni

2nd July 2020  
1:30-4:00 P.M. (IST)

Paper ID	Presenter	All Authors	Paper Title
101	Nayan M. Kakoty	Tanaya Das, Dhruva Jyoti Sut, Vishal Gupta, Lakhyajit Gohain, Priyanka Kakoty, Nayan M. Kakoty.	A Mobile Robot for Hazardous Gas Sensing
102	Nanditha B R	B. R. Nanditha, A. Geetha Kiran, M. S. Dinesh, S. Murali, H. S. Chandrashekar	Texture Analysis of Color Oral Images for Lesion Detection
103	Jyoti Gopal shah	Shah Jyotibahen Gopalbhai, Swet Chandan, Tarun Pratap Singh, Pramod Kumar, Prashant Johri	Inverse Kinematics Analysis of 6R manipulator using RoboAnalyzer, PSO optimization
111	Rituraj Bhattacharjee	Rituraj Bhattacharjee, Rajagopal Kumar	Modelling of an Enhanced Microfluidic Device For Segregation Of Circulating Tumor Cells Using Asymmetric Deterministic Lateral Displacement
113	Yashwardhan Sahi	Yashwardhan Sahi, Swet Chandan, Satya Narayan Satapathy	Design, Simulation of PZT based energy harvester embedded in Asphalt Pavement
114		Shivam Sharma, Swet Chandan, Prashant Johri, Yashwardhan Sahi	Optimization of MEMS type pressure sensor with pressure range 0 to 1.1 bar
119	Snehal Marathe	Snehal Marathe, Bhagwat Patil	Mechanisms for Improving the Productivity of the Existing Photovoltaic Panels: A Review
120	Sateesh Reddy Avutu	Sateesh Reddy Avutu, Sudip Paul, Anjaneya Prasad V.V.B., Jitendra Kumar Verma	Modelling of Brushless DC Hub Motor to control the speed of Indigenous powered wheelchair
121	Garima Thakur	Garima Thakur, Shruti Jain, Harsh Sohal	Design, Analysis of High Speed Parallel Prefix Adder for Digital Circuit Design Applications
125	Md Nasir	Md Nasir, Paramartha Dutta, Avishek Nandi	Recognition of changes in human emotion from face image sequence using triangulation induced barycentre-orthocentre paired distance signature
128	Alankrita	Alankrita ., Sudhir Kumar Srivastava, Shresth Kumar Gupta, Ankit Kumar Pandey	Assessment of Technical Parameters of Renewable Energy System : An Overview
132	Shalini Garg	Shalini Garg, Arun Jb	Computational Evaluation of DC Power Temperature Coefficient of a Multicrystalline Solar Photovoltaic Array for Real Field Conditions of Western Rajasthan, India

**Maximum Time Allocated Per Paper: 10+2 Minutes**

## PRESENTATION SCHEDULE

### Technical Session 3

Chair: Dr. Shruti Jain  
Co-Chair: Dr. Kangkana Bora

2nd July 2020  
4:00-6:30 P.M. (IST)

Paper ID	Presenter	All Authors	Paper Title
133	Banita	Banita .	Detection of Parkinson's Disease Using Rating Scale
134	Subhradip Mukherjee	Subhradip Mukherjee, Rajagopal Kumar, Siddhanta Borah	Computational Study of DFMB Algorithm for Unmanned Vehicle in Static 2D Environment
136	Yaqoob Mubarak	Yaqoob Al Rahbi, Rizwan S M	A comparative analysis between the models of a single component with single repairman & multiple repairmen of an aluminium industry
137	Asmita Singh	Chandra Kumar, Asmita Singh, Deepak Kumar Singh, Nitesh Kumar Soni	Developing A Highly Secure, High Capacity LSB Image Steganography Technique using PRNG
138	Pawan Kumar	Pawan Kumar, Varun Kumar, Rajeev Sobti	Predicting Joining Behavior of freshmen students using Machine Learning - A case study
139	Utpal shrivastava	Utpal Shrivastava, Neelam Sharma	Artificial Neural Network based Dual Layered Predictive Model for Rare Attack Detection
140	Uttara Biswas	Uttara Biswas, Jayanta Kumar Rakshit, Madan Pal Singh	Photonic crystal based micro ring resonator sensor design for urinalysis
142	Prachi Agrawal	Prachi Agrawal, Talari Ganesh, Ali Wagdy Mohamed	Solution of Uncertain Solid Transportation Problem by Integer Gaining Sharing Knowledge Based Optimization Algorithm
143	Navsal Kumar	Navsal Kumar, Sajal Maharshi, Arunava Poddar, Vijay Shankar	Evaluation of Artificial Neural Networks for estimating Reference Evapotranspiration in Western Himalayan Region
146	Geetha Narayanan Thekkedath	Janhvi Malwade, Suaad Sayyed, Jamima Nasir, Yashada Parab, Geetha Narayanan, Shishir Gupta	Wireless Stethoscope with Bluetooth Technology
149	Deepali Newaskar	Deepali Newaskar, B. P. Patil	Wireless Charging of AIMDs- Compensation Circuits
150	Apurba Kumar Raibaruah	Apurba Raibaruah, Kaushik Deva Sarma	Parallel Gated Junctionless Field Effect Transistor

**Maximum Time Allocated Per Paper: 10+2 Minutes**

## PRESENTATION SCHEDULE

### Technical Session 4

Chair: Dr. Vijay Liladhar Agrawal  
Co-Chair: Dr. Talari Ganesh

2nd July 2020  
4:00-6:30 P.M. (IST)

Paper ID	Presenter	All Authors	Paper Title
151	Siddhanta Borah	Siddhanta Borah, R. Kumar, Wittick Pakhira, Subhradip Mukherjee	Design, Analysis of Power Efficient IoT Based Capacitive Sensor System to Measure Soil Moisture
154	Mohammad Zeyad	Mohammad Zeyad, Prodip Biswas, Susmita Ghosh, Md. Tanvir Hassan Maruf, Md. Shehzad, Md. Ibrahim Hasan, Sheikh Raihana Shoshi	Design, Implementation of Temperature & Relative Humidity Control System for Poultry Farm
155	Aanchna Sharma	Aanchna Sharma, Priyanka Madhushri, Vinod Kushvaha, Anand Kumar S.	Prediction of the Fracture Toughness of Polymer Composites using K-Nearest Neighbor (KNN) Method
157	Anmol Singh	Nikhil Tiwari, Anmol Singh	A Novel Study Of Rainfall In Indian States, Predictive Analysis Using Machine Learning Algorithms
161	Vinit Kumar Singh	Vinit Kumar Singh, Ashu Verma, T. S. Bhatti	Design, Modeling, Study of Inverter Integrated reactive power compensation for Isolated Rural Microgrid
162	Abhishek Bhattacharjee	Abhishek Bhattacharjee, Sambhu Nath Pradhan	Impact of Transistor Aging on the Reliability of the Analog Circuit
163	Avishek Nandi	Avishek Nandi, Paramartha Dutta, Md Nasir	Human Emotion Classification: An Expression Specific Geometric Approach
164	Jagritee Talukdar	Jagritee Talukdar, Kavicharan. Mummaneni	Noise behavior of SG-ESTFET with various interface trap charges
165	Virendra Barot	Virendra Barot, Viral Kapadia	Air Quality Monitoring Systems using IoT: A Review
166	Satyam Mishra	Satyam Mishra, Rajesh Birok	Sleep Classification using CNN, RNN on raw EEG Single-Channel
167	Ashim Saha	Ashim Saha, Tulika Sharma, Harshika Batra, Anupreksha Jain, Vabna Pal	Human Action Recognition Using Smartphone Sensors
169	Vishwanath G Garagad	Vishwanath G. Garagad, Nalini C. Iyer, Heera G. Wali	Data Integrity: A security threat for Internet of Things, Cyber-Physical Systems

**Maximum Time Allocated Per Paper: 10+2 Minutes**

## PRESENTATION SCHEDULE

Maximum Time Allocated Per Paper: 10+2 Minutes

### Technical Session 5

Chair: Dr. Bunil Kumar Balabantaray  
Co-Chair: Dr. Saroj Kumar Biswas

3rd July 2020  
1:30-4:00 P.M. (IST)

Paper ID	Presenter	All Authors	Paper Title
171	Md Sadik Tasrif Anubhove	Sadik Anubhove, Nawreen Ashrafi, Ahmed Mortuza, Morsheda Akter, Shadman Uddin	Machine Learning Algorithm based Disease detection in Tomato with Automated Image Telemetry for Vertical Farming
172	MD. Muntazir Billah	Susmita Ghosh, Muntazir Billah, Imran Hossain, S.M. Tanbir Islam, Rakibul Islam, Anup Roy	Designing, performance analysis of a small-scale power generating system utilizing rail locomotives
173	Koel Datta Purkayastha	Koel Datta Purkayastha, Shashank Sekhar Patra, Sambhu Nath Pradhan	Study on Correlation Among the Pollutant Gases, Strategy to Increase the Battery Lifetime of Sensor Network Based Monitoring System
174	Navarun Gupta	Navarun Gupta, Sarosh Patel, Lawrence Hmurcik	Using an Un-Balanced AC Wheatstone Bridge to Measure Capacitance, Inductance
175	Rahul	Rahul, Manoj, Jitendra Kumar Verma	A User Scheduling in LTE Network Having Environment with Mixed Traffic
181	Angana Saikia	Angana Saikia, Vinayak Majhi, Masaraf Hussain, Amit Ranjan Barua, Sudip Paul, Jitendra Kumar Verma	Machine learning based diagnostic system for early detection of Parkinson's disease
190	Himangshu Shekhar Baruah	Himangshu Shekhar Baruah, Jyotishman Thakur, Nazrul Hoque, Satyajit Sarmah	A Feature Selection method using PSO-MI
191	Apoorva Vikram Singh	Thoudam Doren Singh, Divyansha ., Apoorva Vikram Singh, Abdullah Faiz Ur Rahman Khilji	A Hybrid Classification Approach using Topic Modeling, Graph Convolution Networks
193	Jitendra Patil	Jitendra Patil, Vrinda Tokekar, Alpana Rajan, Anil Rawat	SMDMTS – Scalable Model to Detect, Mitigate slow/fast TCP-SYN flood attack in Software Defined Network
194	Sudhanshu Raj	Sudhanshu Raj, Navpreet Kaur Walia	A Study on Metasploit Framework: A Pen-Testing Tool
195	Supriya Katwe	Supriya Katwe, Nalini Iyer	Map-Based Particle Filter For Localization:Autonomous Vehicle
196	Sunayana Saikia	Sunayana Saikia, Rituparna Chutia	Ranking of interval type-2 fuzzy numbers using value, ambiguity

Maximum Time Allocated Per Paper: 10+2 Minutes

## PRESENTATION SCHEDULE

### Technical Session 6

Chair: Dr. Sanjay Vasant Dudul  
Co-Chair: Dr. Manash Chanda

3rd July 2020  
1:30-4:00 P.M. (IST)

Paper ID	Presenter	All Authors	Paper Title
197	Arpita Nema	Arpita Nema	Ameliorated anti-spoofing application for PCs with users' liveness detection using blink count
198	Pallabi Sharma	Pallabi Sharma, Kangkana Bora, Bunil Kumar Balabantaray	Identification of significant frames from colonoscopy video: an approach towards early detection of Colorectal cancer
201	Zaved Hazarika	Zaved Hazarika, Anupam Nath Jha	A comparative evaluation of docking programs using influenza endonuclease as target protein
202	Alankrita	Alankrita, Sudhir Kumar Srivastava	Application of Artificial Intelligence in Renewable Energy
203	Shreya Gupta	Ruchika Malhotra, Shreya Gupta, Tanishq Singh	A Systematic Review on Application of Deep Learning Techniques for Software Quality Predictive Modeling
205	Alokita Karmokar	Alokita Karmokar, Nikhil Jani, Anushka Kalla, Harsh Harlalka, Poonam Sonar	Inspection of Concrete Structures by a Computer Vision Technique, an Unmanned Aerial Vehicle
207	Arjun Ghosh	Arjun Ghosh, Nanda Dulal Jana	Neural Architecture Search with Improved Genetic Algorithm for Image Classification
208	Taher Saifuddin Sakriwala	Taher Saifuddin Sakriwala, Vikas Pandey, Ranjith Kumar Sreenilayam Raveendran	Reliability Assessment Framework for Additive Manufactured Products
209	Rathna Kumar R	Rathna Kumar	Brain Automation, panacea for Physical Disabilities
211	Deepali Ujalambkar	Deepali Ujalambkar, Girish Choudhary	Congestion Aware Routing in Optical Burst Switched Network Using Spider Monkey Optimization
212	Shara Mathew	Shara Mathew, Nithin, Rathnamala Rao	Investigations on the Effect of Spacer Dielectrics on the DC characteristics of Dual Material Gate Junctionless FinFETs
214	Gourab Patowary	Gourab Patowary, Meenakshi Agarwalla, Sumit Agarwal, Manash Pratim Sarma	A Lightweight CNN Architecture for Land Classification on Satellite Images

**Maximum Time Allocated Per Paper: 10+2 Minutes**

## PRESENTATION SCHEDULE

### Technical Session 7

Chair: Dr. Thoudam Doren Singh  
Co-Chair: Dr. Rathnamala Rao

3rd July 2020  
4:00-6:30 P.M. (IST)

Paper ID	Presenter	All Authors	Paper Title
215	Gattupalli Amruta	Gattupalli Amruta, Rajesh Kumar	Enhancing the Performance Characteristic of Patch Antenna using Split-Ring Resonator Metamaterial
216	Sangeeta Sarkar	Sangeeta Sarkar, Meenakshi Agarwalla, Sumit Agarwal, Manash Pratim Sarma	An Incremental Pruning Strategy for fast Training of CNN Models
218	Kunal Aggarwal	Kunal Aggarwal, Sandeep Panwar Jogi	Automatic liver, sub-cutaneous fat segmentation from MRI-PDFF images
219	Jayant Singh	Jayant Singh, Kishorjit Nongmeikapam	Negative Comments Multi-Label Classification
222	Mohammad Tabrez Quasim	Mohammad Tabrez Quasim, Mohammad Ayoub Khan	A Blockchain based Secured Healthcare Framework
223	Madan Pal Singh	Madan Pal Singh, Jayanta Kumar Rakshit, Uttara Biswas, Gaurav Kumar Bharti, Aayushi Tiwari	Design of all-optical OR/AND logic gates using conversion of polarization states in single-waveguide coupled ring-resonator
225	Ashis Maity	Hara Gobinda Naskar, Ashis Maity	A Gm-C Biquad Programmable Band Pass Filter Design for Wireless Applications
226	Tejus R S	Tejus R. S.	Decision Based Paradigm For Business Intelligence
233	Swathy Krishna	Swathy Krishna, Anju J.	DIFFERENT APPROACHES IN DEPRESSION ANALYSIS : A REVIEW
235	Arunima Mishra	Arunima Mishra, Bipin Kumar Tripathi, Sudhir Singh Soam	A Genetic Algorithm based Approach for the Optimization of Multiple Sequence Alignment
237	Jeet Makadia	Jeet Makadia, Ravi Pashchapur, Tushar Dhulasawant, Yakshith Gopal G., Deepak Raj P. Y.	Autonomous Flight Vehicle Incorporating Artificial Intelligence
238	Athira M V	Athira M. V., Diliya M. Khan	Recent Trends on Object Detection, Image Classification: A Review

**Maximum Time Allocated Per Paper: 10+2 Minutes**

## PRESENTATION SCHEDULE

### Technical Session 8

Chair: Dr. Debdeep Saha  
Co-Chair: Dr. Kaushik Chandra Deva Sarma

3rd July 2020  
4:00-6:30 P.M. (IST)

Paper ID	Presenter	All Authors	Paper Title
240	Apurbalal Senapati	Apurbalal Senapati, Arun Poudyal, Prithwiraj Adhikary, Sahana Kaushar, Anmol Mahajan, Baidya Nath Saha	A Machine Learning Approach to Anaphora Resolution in Nepali Language
241	Apurbalal Senapati	Apurbalal Senapati, Baidya Nath Saha	Long Short Term Memory (LSTM) based Deep Learning for Sentiment Analysis of English, Spanish data
244	Preity	Preity, Jayanthi N.	A Segmentation Technique of Retinal Blood Vessels using Multi-Threshold, Morphological Operations
247	Manisha Vashisht	Manisha Vashisht, Brijesh Kumar	Analysis of Traffic Signage Detection using Machine Learning Techniques
249	Aira Alamag	Carlo Aleta, Mc Lourenz Maco, Mara Alexandra Castillo, Praise Deblois, Aira Alamag, Roselito Tolentino	Mimicking Hybrid Manipulator Humanoid Torso by Applying Vector Multiplication Using Microsoft Kinect for Xbox One
250	Shaswat Dharaiya	Shaswat Dharaiya, Bhavin Soneji, Deep Kakkad, Naren Tada	Generating Positive, Negative Sentiment Word Clouds from E-Commerce Product Reviews
251	Angshumala Talukdar	Angshumala Talukdar, Kaushik Chandra Deva Sarma	An Analytical Potential Model for Normally On Double Gate Junctionless Field Effect Transistor
252	Satvik Sabarad	Satvik Sabarad, Shubham Gupta	Quantification of regenerative braking energy in a two-wheeler incorporating various duty cycles
253	Kunaldeep Kalita	Kunaldeep Kalita, Ashwani Kumar Rai, Kunal Pandey, Rachana Garg	Comparative Analysis of different variants of Particle Swarm Optimization for Economic Load Dispatch Problem
256	Sandip Bordoloi	Sandip Bordoloi	Mathematical Analysis of Optical Power of a Bare, Bent, Tapered Multimode Optical fibre sensor using 3 term Sellmeier equation
257	Jayashree Deka	Jayashree Deka, Shakuntala Laskar	Performance Comparison of FOD based Edge Detector, Traditional Edge Detectors on Fish Image Edge Detection
258	Saloni Mishra	Saloni Mishra, A. N. Tiwari	Simulation, Analysis of Open loop PV system with Double Stage Conversion

**Maximum Time Allocated Per Paper: 10+2 Minutes**



## PRESENTATION SCHEDULE

### Technical Session 9

Chair: Prof. Sunita Jahirabadkar  
Co-Chair: Dr. Shachi Sharma

4th July 2020  
9:30-11:30 A.M. (IST)

Paper ID	Presenter	All Authors	Paper Title
259	Rituraj Singh	Rituraj Singh, Jasmeet Singh, Mehrab Singh Gill, Ruchika Malhotra, Garima	Transfer Learning Code Vectorizer based Machine Learning Models for Software Defect Prediction
260	S. Arul Mugilan	Arul Mugilan, Akil Nivetha, Ponraj R., Sherlyn Jemimah	Prediction of Exons using Normalized Probability Parameters derived from Statistical Analysis of Coding Sequences
261	Utpal Barman	Utpal Barman, Ridip Dev Choudhury, Asif Ekbal Hussain, Mridul Jyoti Dahal, Puja Barman, Mehnaz Hazarika	Comparative Assessment of AR, MA, ARMA for the Time Series Forecasting of Assam, Meghalaya Rainfall Division
262	Lakshmi Narayana Thalluri	Lakshmi Narayana Thalluri, Md.Baig Mohammad, Renuka Devireddy, Priyanka Ch, Rajiya Sulthana	An image processing approach for grading of mangoes based on maturity
263	Tamen Thapa Sarkar	Tamen Thapa Sarkar, Lillie Dewan, Chitralekha Mahanta	Real Time Swing up, Stabilization of Rotary Inverted Pendulum System
268	Mohan Kumar	Mohan Kumar, Sunil Kumar Khatri, Masoud Mohammadian	Review on breast cancer disease predictive modelling using Swarm intelligence
269	Pragya Sharma	Pragya Sharma, Swet Chandan, B.P. Agrawal	Vibration signal-based Diagnosis of defect embedded in outer race of ball bearing using 1-D CNN
271	Sunita Saha	Sunita Saha, Athanasia Papanikolaou, Jacek Martusewicz, Robert Sitnik	Augmented Reality in Tracking the Surface Geometry Change of Cultural Heritage Objects
272	Vijay Liladhar Agrawal	Vijay Agrawal, Sanjay Dudul	Conventional Neural Network approach for the Diagnosis of Lung Tumor
273	Azeem Uddin	Azeem Uddin, Suman Devi, Jitendra Kumar Verma	Qualitative software process management for developing countries-An exploratory study
276	Shubham Gaur	Shubham Gaur, Imran Khan	Artificial Intelligence based Hybrid Wind Solar Power System
277	Vinayak Majhi	Vinayak Majhi, Sudip Paul, Goutam Saha, Jitendra Kumar Verma	Sensor based detection of parkinson's disease motor syptoms

**Maximum Time Allocated Per Paper: 10+2 Minutes**

## PRESENTATION SCHEDULE

### Technical Session 10

Chair: Dr. Anju Khandelwal  
Co-Chair: Dr. Sunita Sarkar

4th July 2020  
9:30-11:30 A.M. (IST)

Paper ID	Presenter	All Authors	Paper Title
278	Harjot Kaur	Rahul Hans, Harjot Kaur	Feature Selection Using Metaheuristic Algorithms: Concept, Applications, Population Based Comparison
279	Apurbalal Senapati	Baidya Nath Saha, Apurbalal Senapati, Anmol Mahajan	LSTM based Deep RNN Architecture for Election Sentiment Analysis from Bengali Newspaper
280	Kakoli Goswami	Kakoli Goswami, Aditya Bihar Kandali	Electricity Demand Prediction Using Data Driven Forecasting Scheme: ARIMA, SARIMA for realtime load data of Assam
284	Jagdish Chandra Patni	Jagdish Chandra Patni, Souradeep Banerjee, Devyanshi Tiwari	Infrastructure as a code (IaC) to Software Defined Infrastructure using Azure Resource Manager (ARM)
285	Vikas Pandey	Anupam Kumari, Vikas Pandey	Non-Dynamic Power Reduction Techniques for Digital VLSI Circuits: Classification, Review
289	Akho John Richa	Tripurari Sharan, Akho John Richa	Low-voltage BD-FC-OTA Based-DO-CCII, its Applications for Low Frequency Signal Processing
290	Shachi Sharma	Shachi Sharma, Sonam Pemo	Performance Analysis of Various Entropy Measures in Clustering Categorical Data
294	Rajendra Kumar	Rajendra Kumar, Sunil Kumar Khatri, Mario José Diván	Effect of cooling systems on the energy efficiency of data centers: Machine Learning optimisation
295	Anjanmani Baro	Anjanmani Baro, Kaushik Chandra Deva Sarma	Study on Electrical Characteristics of Double gate Junctionless Field Effect Transistor With Triangle Shaped Spacer
297	Anunay Kumar	Anunay Kumar, Yashwardhan Sahi, Swet Chandan, P Suresh	Modal analysis of helical gear train using Ansys
298	Namita Das	Namita Das, Kaushik Chandra Deva Sarma	Surrounded Channel Junctionless Field Effect Transistor
299	Namita Das	Namita Das, Kaushik Chandra Deva Sarma	Depletion Width Modelling of Surrounded Channel Junctionless Field Effect Transistor

**Maximum Time Allocated Per Paper: 10+2 Minutes**

## PRESENTATION SCHEDULE

Maximum Time Allocated Per Paper: 10+2 Minutes

### Technical Session 11

Chair: Prof. Avanish Kumar  
Co-Chair: Dr Nongmeikapam Kishorjit Singh

4th July 2020  
11:30-1:30 P.M. (IST)

Paper ID	Presenter	All Authors	Paper Title
300	Caffey Jindal	Caffey Jindal, Rishikesh Pandey, Arvind Thakur	Floating-gate MOSFET based class-AB flipped voltage follower cell
301	Shreya Bhattacharyya	Souvik Majumder, Shreya Bhattacharyya, Papiya Debnath, Manash Chanda	Power Delay Analysis of CMOS Reversible Gates for Low Power Application
302	Debashree Devi	Debashree Devi, Saroj K. Biswas, Biswajit Purkayastha	A Review on Solution to Class Imbalance problem: Undersampling Approaches
305	Deepjyoti Mahanta	Deepjyoti Mahanta, Hemashree Bordoloi, Samar Jyoti Saikia	LabVIEW based Smart Pillow
306	B. Sreenivasa Venkat Raman	B Sreenivasa Venkat Raman, Prabhat Ranjan Tripathi, Gauri Shanker Gupta, Ritesh Kumar Keshri	Effects of Injected Harmonics on Torque pulsations of a Three Phase Induction Motor: Study on SPWM
307	Anish Pratap Vishwakarma	Anish Vishwakarma, Ksh. Milan Singh	Comparative Analysis of Adaptive PI Controller for Current Harmonic Mitigation
309	Abhishek Chauhan	Abhishek Chauhan, Pritam Rout, Ksh Milan Singh	Vibration Parameters Estimation using mHDFT Filter in PLL Technique
310	Chinmoy Sailendra Kalita	Chinmoy Kalita, Maushumi Barooah	Li-Fi Based Handoff Technique in VANET
311	Pritam Rout	Pritam Rout, Abhishek Chauhan, Ksh Milan Singh	COV Based Classification of PQ Disturbances Using Wavelet, Optimized SVM Hyper-Parameters
317	S.M. Masum Ahmed	Mohammad Zeyad, S.M. Masum Ahmed, Md. Tanvir Hassan Maruf, Md. Shehzad, Md. Abdul Ala Walid	Design & Implementation of a Micro-controller Based Home Appliances Controlling with Dual Verification Application System
318	Kumar Ashutosh	Kumar Ashutosh	Hardware Performance Analysis of Mobile-Based Augmented Reality Systems
320	Robin Wilson	Robin Wilson, Raja Gandhi, Amit Kumar, Rakesh Roy	Optimized Vector Control Strategy for Dual-Rotor Axial Flux Permanent Magnet Synchronous Motor for In-Wheel Electric Drive Applications

## PRESENTATION SCHEDULE

### Technical Session 12

Chair: Prof. Nalini Iyer  
Co-Chair: Dr. Suma Dawn

4th July 2020  
11:30-1:30 P.M. (IST)

Paper ID	Presenter	All Authors	Paper Title
326	Utpal Barman	Utpal Barman, Diganto Sahu, Golap Gunjan Barman, Jayashree Das	Comparative Assessment of Deep Learning to Detect the Leaf Diseases of Potato based on Data Augmentation
328	Jyotindra Narayan	Jyotindra Narayan, Arjun Pardasani, Santosha K Dwivedy	Comparative Gait Analysis of Healthy Young Male, Female Adults using Kinect-Labview Setup
329	Chayanika Sharma	Chayanika Sharma, Utpal Sarma	Design, Optimization of a Microheater for the application of Indium Tin Oxide (ITO) based Gas Sensor in VOC detection
330	Sarika Chaudhary	Sarika Chaudhary, Aman Jatain	Performance Evaluation of Clustering Techniques in Test Case Prioritization
331	Rajani Singh	Rajani Singh, Nagesh Sharma	Machine Learning Based Medical Information Analysis, Estimations, Approximations over Present Health Research Domain
333	Shrutika Verma	Shrutika Verma, Samay Sur, Ganesh Khekare, Rakesh Haldkar, Pratik Moon	Design of Fruit Segregation and Packaging Machine
334	Bolivia Konthoujam	Bolivia Konthoujam, Satyabrat Malla Bujar Baruah, Soumik Roy	Interference Model for NMDA Receptor
335	Debdeep Saha	Debdeep Saha, Plaban Bora, Udayan Sarmah	Modeling of Air, Fuel Combustion as Emission in Solving AGC Problem of an Isolated CCGT Plant
337	Apurba Kumar Raibaruah	Apurba Raibaruah, Angshumala Talukdar, Kaushik Deva Sarma	Undoped Junctionless Field Effect Transistor
338	Deepjyoti Kalita	Deepjyoti Kalita	An Automatic Detection of Arrhythmia Disease Diagnosis System Based on Artificial Neural Network, Support Vector Machine
339	Aiusha Vellintihun Hujon	Thoudam Doren Singh, Aiusha V Hujon	Low Resource, Domain Specific English to Khasi SMT, NMT Systems
343	P. Mercy Nesa Rani	P Mercy Nesa Rani, Phrangboklang Thangkhiew	A Review on Fundamentals of Ternary Reversible Logic Circuits

**Maximum Time Allocated Per Paper: 10+2 Minutes**

## PRESENTATION SCHEDULE

### Technical Session 13

Chair: Prof. Rachana Garg  
Co-Chair: Dr. Harjot Kaur

4th July 2020  
2:00-4:30 P.M. (IST)

Paper ID	Presenter	All Authors	Paper Title
344	Raja Gandhi	Raja Gandhi, Robin Wilson, Amit Kumar, Rakesh Roy	Comparative Analysis of Vector Controlled PMSM Drive with Particle Swarm Optimization, Ant Colony Optimization Technique
345	Pranabjyoti Haloi	Pranabjyoti Haloi, M. K. Bhuyan, Pooja Rani Borah, Dibyajyoti Chatterjee	A Novel Algorithm for Shot Boundary Detection, Segmentation of Broadcast News Videos
346	Pooja Batra	Pooja Batra, Aman Jatain	Measurement Based Performance Evaluation of DevOps
347	Rupjyoti Haloi	Rupjyoti Haloi, Jupitara Hazarika, Dipankar Chanda	Selection of appropriate Statistical Features of EEG Signals for Detection of Parkinson's Disease
352	Arunabh Saikia	Arunabh Saikia, Sayan Sill, Satyabrat M. B. Baruah, Soumik Roy, Bikash R. Das	Android Interface for Handling ECG Data from GE MAC 600 ECG System
354	Md. Mahamudunnobi Sykot	Md. Mehedi Hasan, Muslima Tuz Zahra, Md. Mahamudunnobi Sykot, Rubaiya Hafiz, Mohd. Saifuzzaman	Solving Onion Market Instability by Forecasting Onion Price Using Machine Learning Approach
355	Sharmistha Mazumdar	Nairit Barkataki, Sharmistha Mazumdar, Rajdeep Talukdar, Priyanka Chakraborty, Banty Tiru, Utpal Sarma	Prediction of size of buried objects using Ground Penetrating RADAR, Machine Learning Techniques
357	Sunita Jahirabadkar	Sunita Jahirabadkar, Prajakta Narsay, Shivani Pharande, Gargi Deshpande, Anusha Kitture	Space Objects Classification Techniques : A Survey
358	Pritom Gogoi	Pritom Gogoi, Manpa Barman, Mahendra Deka, Upasana Rajkonwar, Rhittwikraj Moudgollya	Object Detection, Tracking Turret based on Cascade classifiers, Single Shot Detectors
361	Ketanpreet Kaur	Ketanpreet Kaur, Vikrant Sharma, Monika Sachdeva	Framework for FOGIoT based Smart Video Surveillance System (SVSS)
362	Varsha Prakash	Varsha Prakash, Smitha Vas P	Survey on Lung Cancer Detection Techniques

**Maximum Time Allocated Per Paper: 10+2 Minutes**

## PRESENTATION SCHEDULE

### Technical Session 14

Chair: Mr. Utpal Barman  
Co-Chair: Dr. Ridip Dev Choudhury

4th July 2020  
2:00-4:30 P.M. (IST)

Paper ID	Presenter	All Authors	Paper Title
351	Adarsh Pradhan	Adarsh Pradhan, Bhaskarjyoti Sarma, Bhiman Kr Dey	Lung Cancer detection using 3D Convolutional Neural Networks
365	Rahul Pandey	Rahul Pandey, Lalchhanhima	Segmentation Techniques for Complex Image: Review
368	Udeshna Hazarika	Udeshna Hazarika, Monalisa Das, Kandarpa Kumar Sarma	A Reconfigurable Time Multiplexed Multichannel ADC model for efficient Data Acquisition
369	Adarsh Pradhan	Adarsh Pradhan, Bhaskarjyoti Sarma, Rahul Kumar Nath, Bhiman Kr Dey	Transfer Learning based Classification of Diabetic Retinopathy Stages
371	Bandana Pal	Bandana Pal, Surya Mahajan, Shruti Jain	A Comparative Study of Traditional Image Fusion Techniques with A Novel Hybrid Method
372	Chandra Shekhar Yadav	Santosh Kumar, Chandra Shekhar Yadav, Barasha Mali	Design of Microstrip Tunable bandpass filter using ferroelectric thin film varactor
373	Kiran Somisetti	Kiran Somisetti, Khushboo Tripathi, Jitendra Kumar Verma	Design, Implementation, Controlling of a Humanoid Robot
374	Nikhil Shrivastva	Nikhil Shrivastva, Suman Devi, Jitendra Kumar Verma	Digital money: The Empowering New Currency
375	Abhishek Sharma	Abhishek Sharma, Suman Devi, Jitendra Kumar Verma	Braille Book Reader using Raspberry Pi
376	Bakhtawar Parvez	Bakhtawar Parvez, Raza Abbas Haidri, Jitendra Kumar Verma	IoT in Agriculture
377	Shivam Vatshayan	Shivam Vatshayan, Raza Abbas Haidri, Jitendra Kumar Verma	Design of Hybrid Cryptography System based on Vigenere Cipher, Polybius Cipher
378	Utpal Shrivastava	Utpal Shrivastava, Neelam Sharma	Feature Selection, Implementation of IDS using Boosting algorithm
379	Apoorva Rawat	Apoorva Rawat, Arun Solanki	Sequence Imputation Using Machine Learning with Early Stopping Mechanism
380	Amita Charan	Amita Charan, Jitendra Kumar Verma	Characterizing Social Media Content for Regulating Hate Crimes and Cyber Racism against Marginalized and Dalits

**Maximum Time Allocated Per Paper: 10+2 Minutes**