



## Programme Schedule for IEPCCT-2019



### Day 1 (13 December 2019)

9:00hrs to 10:00hrs	10:00hrs to 11:00hrs	11:00hrs to 11:30hrs	11:30hrs to 12:30hrs	12:30hrs to 13:30hrs	13:30hrs to 14:30hrs	14:30hrs to 17:00hrs	17:00hrs to 17:30hrs
Registration	Inauguration	High Tea	Keynote Lecture-1 <b>Prof. (Dr.) C.N.Bhende</b> , IIT Bhubaneswar	Keynote Lecture-2 <b>Prof. (Dr.) Debu Nayak</b> , Huawei Telecommunications (India), Co. Pvt. Ltd	Lunch	Regular Session 1.1 Regular Session 1.2 Regular Session 1.3	Tea

### Day 2 (14 December 2019)

9:00hrs to 9:30hrs	10:00hrs to 11:15hrs	11:15hrs to 11:30hrs	11:30hrs to 12:30hrs	12:45hrs to 13:45hrs	13:45hrs to 15:15hrs	15:15hrs to 16:00hrs	16:00hrs to 16:30hrs
Breakfast	Keynote Lecture-3 <b>Prof. (Dr.) Swgatam Dash</b> , ISI Kolkata	High Tea	Keynote Lecture-4 <b>Prof. (Dr.) B K Panigrahi</b> , IIT Delhi	Lunch	Regular Session 2.1 Regular Session 2.2 Regular Session 2.3	Keynote Lecture-5 <b>Prof. L.M. Patnaik</b> Adjunct Professor and INSA Senior Scientist, National Institute of Advanced Studies, Bangalore	Valedictory Session and Award Distribution

Keynote Lecture 1 **Prof. (Dr.) C.N.Bhende**, IIT Bhubaneswar

Keynote Lecture 2: **Prof. (Dr.) Debu Nayak**, Huawei Telecommunications (India), Co. Pvt. Ltd

Keynote Lecture 3: **Prof. (Dr.) Swgatam Dash**, ISI Kolkata

Keynote Lecture 4: **Prof. (Dr.) B K Panigrahi**, IIT Delhi

Keynote Lecture 5: **Prof. L.M. Patnaik**, Adjunct Professor and INSA Senior Scientist, National Institute of Advanced Studies, Bangalore, 56001

## Session Schedules

### Regular Session 1.1:

Innovation in Electrical Power Engineering

13 Dec 2019 @ 14:30hrs to 17:00hrs

Paper ID	Title	Author
04	Solar-Fed Single-Input Three-Output DC-DC Converters for Low Power applications	Akhil Raj P and Sabha Raj Arya
61	DSTATCOM using Limit Cycle Oscillator FLL with Optimized Gains of Voltage Error Controllers	JayadeepSrikakolapu, Sabha Raj Arya and RakeshMaurya
15	Demand Side Management in Smart Grid	M. Ganesh, R. K. Patnaik
27	Harmonics and Voltage Sag Compensation of a Solar PV based Distributed Generation using MSRF based UPQC	SaritaSamal, AkanshaHota, Prakash Kumar Hota, Prasanta Kumar Barik
40	Load Frequency Control Incorporating Electric Vehicles Using FOPID controller with HVDC Link	SunitaPahadasinghChitralekhaJena ,Chinmoy Ku. Panigrahi
128	Comparative Analysis of Adaptive Filtration Techniques Using DSTATCOM for Distribution System	Byomakesh Dash, SatishChoudhury, BidyadharSubudhi and Renu Sharma
57	Electrical Faults in Photovoltaic Modules: Analysis, Characterization and Detection	PriyaRanjanSatpathy, Sasmita Jena, Sobhit Panda and Renu Sharma
93	Smartgrids/Microgrids in India : A Review on Relevance, initiatives, Policies, Projects & Challenges.	AshutoshNayanDey, Basanta K. Panigrahi and SanjeebKar
103	Employing Thermoelectric Coupled Solar PV Hybrid System in Non-Conventional Distribution Generation	Sasmita Jena, Keshav Krishna, SambitTripathy, SubhamSubrajeetBarik, ShaliniPatro, PriyaRanjanSatpathy and Sanjeeb Kumar Kar
130	Optimum Design of PV-Battery based Microgrid with Mutation Volatilization dependent Water Cycle Algorithm	Shaktinarayana Mishra SaumyaRanjanLenka,PrachitaraSatapathy , PravatiNayak
133	EV Battery Charging with input power Factor Correction using a Buck-Boost Converter	Prateek Kumar Sahoo, Sagar Kumar Champati, AshishPattanaik and Tapas Kumar Mohapatra1

**Regular Session 1.2:**

Innovation in Communication Engineering

13 Dec 2019 @ 14:30hrs to 17:00hrs

Paper ID	Title	Author
46	Retinal Image Segmentation using Gabor Transform with Preprocessing and Hysteresis Thresholding	SakambhariMahapatra, U R Jena <sup>2</sup> , Sonali Dash
74	Real-Time Position Estimation of Mobile Platform in Indoor and GPS Denied Environments	SagarDhatrak, DamayantiGharpure
75	Steady Model for Classification of Handwritten Digit Recognition	AnujayGhosh, ArunaPavate, ViditGholam, GauriShenoy, ShefaliMahadik
98	Constraint based Design of Multi-stage Core type Multipole Field Electromagnetic Launching System (CMFELS) and Its Possible Use in the Catapult System	SrichandanKondamudi and SandhyaThotakura
37	Application of IoT in predictive maintenance using Long Range Communication (LoRa)	SiddharthBhatter, Akash Verma <sup>2</sup> and SayantanSinha
59	Detection and Classification of Voltage Sag Causes based on S-transform and Extreme Learning Machine	BhaskarPatnaik, RasmiRanjanPanigrahi,Manohar Mishra, Ranjan Kumar Jena and Manoj kumar Swain
99	Performance Analysis of Fractional Order High Pass Filter	Kumar Biswal, Madhab Chandra Tripathy, SanjeebKar
102	Automatic Recognition of the early stage of Alzheimer's disease based on Discrete Wavelet transform and Reduced Deep Convolutional Neural Network	BhanjaKishor Swain, MrutyunjayaSahani and Renu Sharma
126	Design of Artificial Pancreas based on Fuzzy Logic Control in Type-I Diabetes Patient	Akshaya Kumar Patra, Anuja Nanda, ShantisudhaPanigrahi and Alok Kumar Mishra

**Regular Session 1.3:**

Innovation in Computing Technology

13 Dec 2019 @ 14:30hrs to 17:00hrs

Paper ID	Title	Author
09	Blind Feature based Steganalysis with and without cross validation on calibrated JPEG images using Support Vector Machine	DeepaD.Shankar
32	Use of Teaching Learning Based Optimization for Data Clustering	Anima Naik
64	A hybrid approach for path planning of multiple AUVs	Madhusmita Panda, Bikramaditya Das, BibhutiBhusanPati
39	Survey of Sentiment Analysis of Political Content on Twitter	SiddheshPai, Vaibhav Bagri, ShivaniButala, and Pramod Bide
60	Accelerated deep learning in proteomics- A review	Deeba Khan and SeemaShedole
135	IoT based real-time water quality monitoring and classification	Sujaya Das Gupta , M.S.Zambare , N.M.Kulkarni and A.D.Shaligram
68	Ant Colony Optimization in Data Mining: Critical Perspective from 2015 to 2020	JanmenjoyNayak, KanithiVakula, Paidi Dinesh, BighnarajNaik
62	Global Horizontal Irradiance Prediction using Deep Neural Network Framework	Sambit Dash, PriyaRanjanSatpathy, Sobhit Panda Renu Sharma

**Regular Session 2.1:**

Innovation in Electrical Power Engineering

14 Dec 2019 @ 13:45hrs to 15:15hrs

Paper ID	Title	Author
19	Improvement of Current profile in Grid-tied Hybrid Energy System by 3-Phase Shunt Active Filter	RudranarayanSenapati, SthitaPrajna Mishra, VamsiramIlla, Rajendra Narayan Senapati
26	Modeling, Simulation and Validation of 1200 kV UHV Autotransformer	SatyadharmaBharti and SatyaPrakashDubey
48	Multi-Level Asymmetrical Inverters using Two DC port with less number of Switches and Conversion Stages	Suraj Kumar Dash and Prakash Kumar Hota
55	Fuzzy granular computing based controller design for inverted pendulum system with delay	SrikanthKavirayani
38	PID Based Electronic Load Controller for 3-Phase Synchronous Generator	Kamran Alam, Namarta Chopra
142	Stability Improvement in Power System Integrated with WECS using Dolphin Echolocation Optimized Hybrid PID plus FLC based PSS	Prakash K. Ray, Shiba R. Paital, Lalit Kumar, BholaJha, Sanjay Gairola, Manoj Kumar Panda
29	Participation of geo-thermal and dish-sterling solar power plant for LFC analysis using fractional order controller	PriyambadaSatapathy, Manoj Kumar Debnath, Pradeep Kumar Mohanty, Binod Kumar Sahu
71	Linear Quadratic Regulator Design for Stabilizing and Trajectory Tracking of Inverted Pendulum	Akshaya Kumar patra, Alok Kumar Mishra, Anuja Nanda, RamachandraAgrawal, AbhishekPatra , ShekhareshBarik
127	Comparative Analysis of LMS Based Control Algorithms for Grid Integrated PV System	SatishChoudhury, Byomakesh Dash, BidyadharSubudhi, and Renu Sharma
131	New Modified Water Cycle Optimized Fuzzy PI Controller for Improved Stability of Photovoltaic Based Distributed Generation towards Microgrid Integration	M. Mohamed Hamad Adam, Naeem M. S. Hannon, SnehamoyDhar
20	Novel Bludgeon shaped microstrip antenna with DGS for UWB applications with notch band characteristics	B. Ramesh, K.P.Vinay, LalBabuPrasad, K. S. Ravi Kumar, D.V Rama Koti Reddy

**Regular Session 2.2:**

Innovation in Electrical Power Engineering

14 Dec 2019 @ 13:45hrs to 15:15hrs

Paper ID	Title	Author
65	hybrid framework for fault classification and location in power distribution system using wavelet and support vector machine	SatyajitPanigrahy and A. K. Chandel
82	OPTIMAL TCSC LOCATION FOR REACTIVE POWER OPTIMIZATION USING OPPOSITIONAL SALP SWARM ALGORITHM	Sheila Mahapatra, Saurav Raj, and Mohan Krishna
88	Estimation of simple, energy and carbon payback periods of a 1 MWp ground mounted solar PV plant at Tirupati airport: A Case study	Mohan Krishna , Sheila Mahapatra , Saurav Raj and FebinDaya J
141	Performance of Second Order Generalized Integrator based Adaptive Filter under Adverse Grid Conditions	BanishreeMisra, ArkadipMajumdar, Sudhananda Pal
83	THD Reduction of On-Grid Solar Photovoltaic System Employing SPWM Technique	Suraj Kumar Panigrahi, Renu Sharma, SatyanarayanBhuyan
90	Average Current Controlled SEPIC Converter with High Power Factor Correction	Alok Kumar Mishra, Akshaya Kumar Patra, RamachandraAgrawal, Lalit Mohan Satapathy, Anuja Nanda, SamarjeetSatapathy andJnanaRanjan Swain
95	Power Generation from Various Interconnecting Solar PV Networks for an Electrically Coupled Solar PV-TEG system under Healthy and Partly Cloudy Condition	Sasmita Jena, ShaliniPatro, SubhamSubrajeet Barik3, SambitTripathy, KeshavKrishna5, PriyaRanjanSatpathy, Sanjeeb Kumar Kar
41	Automatic Generation Control in Deregulated Power Market using Sun Flower Optimization Algorithm	Abhilipsa Sahoo1, P. K. Hota and B. Mohanty
28	Load Balancing in Cloud Computing: Survey	ArabindaPradhan, SukantKishoroBisoy, Pradeep Kumar Mallick
139	Motion Control of an IPMSM drive system using Sliding mode controller	A. K. Naik, A.K.Panda, S.K.Kar, M. Sahoo1

**Regular Session 2.3:**

Innovation in Electrical Power Engineering

14 Dec 2019 @ 13:45hrs to 15:15hrs

Paper ID	Title	Author
94	LFC Analysis in PV-Thermal System using Non-integer Controller	Jyoti RanjanPadhi, Manoj Kumar Debnath, Sanjeeb Kumar Kar, Binod Kumar Sahu
35	Studies on off-grid Solar Photovoltaic Powered Micro-irrigation System in Aerobic Rice Cultivation for Sustainable Agriculture and Mitigating Greenhouse Gases Emission	M.K.Ghosal , N.Sahoo and SonaliGoel
42	Implementation of Monte Carlo Simulation to the Distribution Network for its Reliability Assessment	Ajoya Kumar Pradhan , Sanjeeb Kumar Kar , Pradeep Kumar shill , Pujashree Dash
67	Effect of soiling on power output of a Photovoltaic system	Sonali Goel , Sobhit Panda, Nallapaneni Manoj Kumar, Renu Sharma
100	Application of 2DOF and 3DOF controller for LFC analysis in Multi-Generation System	Gayatri Mohapatra,Manoj Kumar Debnath, Krushna Keshab Mohapatra
129	Fractional Order PID Controller Design for Stabilizing and Trajectory Tracking of Vehicle System	Akshaya Kumar Patra, Alok Kumar Mishra, and RamachandraAgrawal
132	Voltage Stabilization in a Single-Phase SEIG System with Electronic Load Controller	SubhenduKhatua , AbhijeetChoudhury, SwagatPati, Sanjeeb Kumar Kar and Renu Sharma
143	Economic operation of diesel generator in an isolated hybrid system with pumped hydro storage	Subrat Bhol,Nakul Charan Sahu1, Amar Bijaya Nanda
144	SHO Algorithm based Fuzzy aided PID Controller for AGC Study	S. Sahoo, N. K. Jena, D. P. Das, B. K. Sahu, M. K. Debnath