

# National Power Engineering Conference NPEC-18

9<sup>th</sup> and 10<sup>th</sup> march 2018

Conference Presentation Schedule

<b>Domain- Electrical Energy Systems</b>			
Date: 09.03.2018		Session I: Forenoon	Timing: 11.30 AM to 1.30 PM
<b>Submission Number</b>	<b>Authors</b>	<b>Title</b>	<b>Institution</b>
33	S Hari Charan Cherukuri and Saravanan Balasubramaniyan	A Novel Demand Side Management strategy for micro grids consisting of higher penetration of hot water loads	VIT University
54	Pooja Anap	Energy Management in Microgrid by using Classical Method and Particle Swarm Optimization Method	K.K.W.I.E.E.R.Nashik
66	Karthikeyan Prakash	Smart Condition Monitoring for Power Distribution Transformer	Techolution India Private Limited
77	Solomon Netsanet Alemu, Jianhua Zhang and Dehua Zheng	Short Term Load Forecasting Using Wavelet Augmented Non-linear Autoregressive Neural Networks A Single Customer Level Perspective	North China Electric Power University North China Electric Power University Goldwind Science ETechnology Co., Ltd
78	Solomon Netsanet Alemu, Jianhua Zhang and Dehua Zheng	Short Term Wind Power Forecasting Using an Aggregative Soft Computing Approach	North China Electric Power University North China Electric Power University Goldwind Science Technology Co., Ltd

90	Sonaxi Raikar and Kushal Jagtap	Role of Deregulation in Power Sector and Its Status in India	The National Institute of Engineering Mysore
92	Kajal Mor and Ashutosh Trivedi	Adaptive Damping with Cross Derivative Controller for Stability in AC -Microgrid	DPGITM,GURUGRAM Delhi Technological University,New Delhi
93	Deblina Maity, Arkadev Ghosh, Sumit Banerjee and Chandan Kumar Chanda	Economic Dispatch Solution for Cogeneration Unit Assisted By Bare Bones Teaching Learning Optimization Technique	Netaji Subhash Engineering College Dr B C Roy Engineering College IEST
95	Deblina Maity, Arkadev Ghosh, Sumit Banerjee and Chandan Kumar Chanda	Microgrid: Planning Of Optimal Placing Of Distributed Energy Resources By Loss And Fuel Cost Reduction Using Map Reduce Optimization Algorithm Approach	Netaji Subhash Engineering College Dr B C Roy Engineering College IEST
108	Prabhakar Karthikeyan and Madhan Kumar S	Impact of Generator/Demand Constraints on Market Clearing Price under Pool Market with Elastic Demand	Vellore institute of technology VIT

## Domain- Electrical Energy Systems and Analog & Digital Electronic Systems

Date: 09.03.2018

Session II: Forenoon

Timing: 11.30 AM to 1.30 PM

Submission Number	Authors	Title	Institution
7	Ditty Varghese, Shafaque Syed, Denzil Barboza, Crescent Bardeskar, Ashvit Shetty and Niharika Shetty	A Review Paper On Location Based Food Habit Analysis And Dietary Recommendation For Rural Women	DBIT
9	Sundar Rajan G T, Barnabas Paul Glady. J and Ramesh Babau A	Performance evaluation of coupled inductor based interleaved sepic converter using pulse width modulation (pwm) technique and window enabling system (WES)	Sathyabama university
12	Larissa Fernandes, Kevin Dias, Agin Jose, Ditty Varghese and Shafaque Syed	Chili Plant Disease Detection Using Thermal Imaging Techniques	Don Bosco Institute of Technology
31	Nallapaneni Manoj Kumar, Karthik Atluri and Sriteja Palaparthi	Internet of Things (IoT) in Photovoltaic Systems	Faculty of Electrical and Electronics Engineering, Universiti Malaysia Pahang,  Karunya University Bulwaark Integrated Systems Pvt. Ltd.
32	Eyhab El-Kharashi	Improving the Performance of Large Rating Induction Motor During the Unbalance of Both the Voltage and Frequency	Ain shams Uiniversity

36	Karthik Atluri, Sunny M Hananya and Bhogula Navothna	Performance of Rooftop Solar PV System with Crystalline Solar Cells	Karunya Institute of Technology and Sciences  Institute of Aeronautical Engineering
37	Sitharthan R, Swaminathan Jn and Parthasarathy T	Exploitation of Wind Energy in India: A Short Review	MITS
80	Surabhi Chaudhary, Zameer Ahmad and S. N. Singh	Single Phase Grid Interactive Solar Photovoltaic Inverters: A Review	IIT Roorkee
82	Ashwini Kumar Nayak and Kanungo Barada Mohanty	Analysis of Wind Characteristics using ARMA & Weibull Distribution	National Institute of Technology Rourkela
110	Prabhakar Karthikeyan S and Ritwik Dhawan	An Efficient EV Fleet Management for Charging at Workplace Using Solar Energy	Vellore institute of technology VIT University

## Domain-Power Electronics and Drives

Date: 09.03.2018

Session III: Afternoon

Timing: 2.15 to 4.30 PM

Submission Number	Authors	Title	Institution
39	S.Shamshul Haq, D Lenine and S.V.N.L Lalitha	Performance Analysis of Hysteresis Voltage and Current Control of Three Phase-Four Wire UPQC	K L University RGM College of Engineering and Technology
41	Thaticharla Sowjanya and Kammara Veerendranadh	Performance Investigation of Sub Multilevel Inverter with Reduced Number of Switches	RGM CET
44	Naresh Kumar Kothandaraman and Dr.Srinath S	Integration of UPQC with New Converter Transformer for Power Quality Improvement	Velammal institute of technology
59	Kshirod Kumar Rout and Sivkumar Mishra	A Modified 7-Level Reduced Switch Symmetrical Inverter	IIIT Bhubaneswar
67	Sitakant Debata, Tapas Roy, Abhijeet Dasgupta and Pradip Kumar Sadhu	A Novel Structure of Switched Capacitor Multilevel Inverter with Reduced Device Count	KIIT University IIT DHANBAD
68	Rojalin Rout, Tapas Roy, Tanmoy Roy Choudhury and Byamakesh Nayak	A Novel Structure of Cascaded Multilevel Inverter with high voltage level generation capability using reduced components	KIIT University
70	Nitin Gupta, Vijayakumar Gali and Ram Avtar	Predictive Tuned Filter based Reference Current Generation for Shunt Active Power Filter under	MNIT Jaipur

	Gupta	Distorted and Unbalanced Supply Voltage	
72	Vinopraba T and Jawaharbabu Jambulingam	PFC in Switch Mode AC DC Converter with POESL Luo Converter for LED Applications	NIT Puducherry
79	Trilochan Penthia and Anup Kumar Panda	Tight Regulation of DC-Link Voltage in a Superconducting Magnetic Energy Storage System Under Pulsed Power Load Condition	National Institute of Technology, Rourkela
106	Anup Kumar Panda and Trilochan Penthia	Power Quality Enhancement using Shunt Active Power Filter Integrated with SMES coil	National Institute of Technology Rourkela

## Domain-Power Electronics & Drives and Control & Automation

Date: 09.03.2018

Session IV: Afternoon

Timing: 2.15 to 4.30 PM

Submission Number	Authors	Title	Institution
24	Moka Divya Sri	Transmission expansion planning using differential evolution multi-objective differential evolution and multi-criteria decision making methods	SIR CR.REDDY COLLEGE OF ENGINEERING
30	Jimmy Joseph, Rakesh Patel and Hardik R Pathak	Analysis and Comparison of DC – DC Converter Topologies For The Design and Development of A Solar Based Inverterless System	GH Patel College of Engineering & Technology, Anand, Gujarat
35	S Sampath Kumar, R Joseph Xavier and S Balamurugan	ANFIS Based Reference Flux Estimator with GA Tuned Controller for DTC of Induction Motor	Amrita Vishwa Vidyapeetham Sri Ramakrishna Institute of Technology
47	Madhuresh Gupta, Soumyakanti Giri and Prabhakar Karthikeyan	Impact of V2G on Voltage Stability - Indian Scenario	School of Electrical Engineering VIT University
52	Nirbhay Lal and Kamlesh Pandey	Design and Implementation of a VGA controller using Complex Programmable Logic Devices	Amity UNiversity Uttar Pradesh
55	Vaibhav Khairnar and Kamal Sandeep	Induction Motor Parameter Monitoring System using Zig bee Protocol & MATLAB GUI	Zeal collage of engineering ,pune Zeal College of Engineering & Research Narhe, Pune.

61	Mahalakshmi G and Ganesh C	A Review of Torque ripple Control Strategies of Switched Reluctance Motor	Sri Krishna College of Engineering & Technology KPR Institute of Engineering & Technology
84	Diptish Saha and Tapas Roy	Closed Loop Control of a Novel Three Phase Switched Capacitor Multilevel Inverter using Model Predictive Control Technique	KIIT University
88	Prachi Gondane, Rukhsar Sheikh, Kajol Chawre, Vivian Wasnik and Dr. Altaf Badar	Detection of inrush current through wavelet transform & artificial neural network	Anjuman College of engineering and technology
97	Villuri Ravi Teja, Balamurugan Sukumar and Sampath Kumar Subramaniam	Development of ALFC and AVR Control Loop as Laboratory Model using DC-DC Buck Chopper	Amrita School of Engineering, Coimbatore, Amrita Vishwa Vidyapeetham
99	Tapan Kumar Chattopadhyay, Sumit Banerjee, Rabi Sankar Nag and Chandan Kumar Chanda	Application of Reliability Indices for the analysis of a Radial Distribution System	BCREC Durgapur Dr B C Roy Engineering College IEST Shibpur
100	P Shaikshavali Swamy, N Janarthanan and S Balamurugan	Control of Real Power Flow in the Transmission Line Using PWM Based Voltage Source Inverter	Amrita Vishwa Vidyapeetham



101	Maulesh Hiteshbhai Parikh, Chirag J Modi, Darshan M Gohil, Deep N Panchal, Vijaykumar P Khatrani and Darshan M Dodiya	Optimization of Cantilever Fin using Different Types of Cross-Sections	CADD Centre NIT, SURAT
60	Geetha V and Meena Devi R	Bridgeless PFC Boost Converter With FLC	Sathyabama institute of science and technology

**Domain- Control & Instrumentation and Industrial Controller**

Date: 10.03.2018

Session V: Forenoon

Timing: 11.30 AM to 1.30 PM

<b>Sn</b>	<b>Authors</b>	<b>Title</b>	<b>Institution</b>
28	Senthil Kumar R, Gerald Christopher Raj I and Lincy Luciana M	Comparative Analysis of PI and Neural Based Speed Controller for Three Phase Induction Motor Drive	M.Kumarasamy college of Engineering, karur, Tamilnadu, India PSNA College of Engineering & Technology
29	Julius Fusic S	PATH PLANNING OF ROBOT USING MODIFIED DIJKSTRA ALGORITHM	TCE
111	Julius Fusic S	PATH PLANNING FOR CAR LIKE MOBILE ROBOT (CLMR) USING ROBOT OPERATING SYSTEM	TCE
102	Narmadha P, Marimuthu	Time Domain Based Discrete PID Controller	Saranathan college of engineering

	M and Vijayalakshmi S	for Cascaded Boost Converter	
103	Bharani Lakshmi.R, Thangasankaran .R, Gnanavadivel .J and Jaya Christa.S.T	Performance Evaluation of Fuzzy Controlled Single Phase PWM Rectifier	K.L.N College of Engineering, Madurai MEPCO SCHLENK ENGINEERING COLLEGE, SIVAKASI.
113	Priyadharsini Rajendran, Kanimozhi Muthupandian and Karthika Vigneswari Balasubramanian	Anatomization of Controllers in Electric Power Systems for Microgrid Approach	Anna University BIT campus Trichy
19	Vijayalakshmi S and Dr. Kavitha D	Optimal Placement of Phasor Measurement Units For Smart Grid Applications	Thiagarajar College of Engineering Thiagarajar College of Engineering
18	Hemavathi R and Geethanjali M	DEVELOPMENT OF DIGITAL LOSS OF EXCITATION PROTECTION ALGORITHMS FOR SYNCHRONOUS GENERATOR	THIAGARAJAR COLLEGE OF ENGINEERING
40	A. Akshaya Preethi, S. Suganya, J. Jeslin Drusila Nesamalar and S. Charles Raja	Economic scheduling of Plug-in Hybrid Electric Vehicle considering various travel patterns	Thiagarajar College of Engineering, Madurai Kamaraj College of Engg. & Tech., Virudhunagar
42	G.R Hemanth, S. Suganya, S. Charles Raja and P. Venkatesh	Neural Network based Demand Side Management using Load Shifting	Thiagarajar College of Engineering, Madurai
86	Subha Maharajan	Estimation of Stator Winding Fault in Three Phase Induction Machine	Mepco Schlenk Engineering College, Sivakasi.

**Domain- Power & Energy and Power Electronics**

Date: 10.03.2018

Session VI: Forenoon

Timing: 11.30 AM to 1.30 PM

<b>Sn</b>	<b>Author</b>	<b>Title</b>	<b>Institute</b>
20	Meenakshi N and Kavitha D	Optimized Self-Healing of Networked Microgrids using Differential Evolution Algorithm	Thiagarajar College of Engineering
22	Suriya Priya and Geethanjali M	DESIGN AND DEVELOPMENT OF NOVEL DISTANCE PROTECTION SCHEME FOR WIND POWER DISTRIBUTED GENERATION	Thiagarajar College of Engineering
25	Sharanya M, Meenakshi Devi M and Geethanjali M	FAULT DETECTION AND LOCATION IN DC MICROGRID	Thiagarajar College of Engineering
34	M Mahasathyavathi, B Ambika and Dr.N Kamaraj	AGC FOR MULTISOURCE DEREGULATED POWER SYSTEM	Thiagarajar College of Engineering
38	Gowtham Raj T, Saranya S K and Divya K	COMPARATIVE ANALYSIS OF INCREMENTAL CONDUCTANCE AND PERTURB & OBSERVE MPPT METHODS FOR SINGLE-SWITCH DC/DC CONVERTER	M.KUMARASAMY COLLEGE OF ENGINEERING
42	G.R Hemanth, S. Suganya, S. Charles Raja and P. Venkatesh	Neural Network based Demand Side Management using Load Shifting	Thiagarajar College of Engineering, Madurai
48	Kavya G and Geethanjali M	A PMU based Wide Area Backup Protection scheme for transmission lines	Thiagarajar College of Engineering
51	Keerthana J and K Selvi	LOAD FREQUENCY CONTROL OF MULTI AREA POWER SYSTEMS IN DEREGULATED	Thiagarajar College of Engineering

		ENVIRONMENT	
53	Kabhilavaishnavi Subramanian and Dr.Selvi K	Frequency Regulation Of Island Power Systems With Voltage Dependent Loads	Thiagarajar College of Engineering
56	Ashok Kumar B and Gayathri P	Control of DC Link Voltage of Single Phase Grid Connected Solar PV System	Thiagarajar College of Engineering
57	Priya M.A.J, Ashok Kumar B	Phase Locked Loop for controlling inverter interfaced with grid connected solar PV system	Thiagarajar College of Engineering
58	Raje Murugesan, Jeyadevi S and Karthikchandran Chandran	An Application of Hybrid Firefly and PSO With Support Vector Regression For Modeling A Clarifier Process In Sugar Industry	kamaraj college of engineering and technology Woldia university
63	Naveen Sundar Uthayakumar and Ramkumar M	crowbar implementation of dfig wind turbine using fuzzy logic	thiagarajar college of engineering thiagarajar college of engineering
75	Priyanka S and Edwin Deepak F.X	A double frequency ripple suppression control in quasi z- source inverter	PSNA CET
76	A Kalaivani and S.K. Nandha Kumar	MODIFIED NON-ISOLATED HIGH STEP-UP SEPIC CONVERTER FOR PV APPLICATIONS	PSNA CET
87	Karuppasamy Balasubramanian and Dr.V Gayathri	Role of Cost effective C/Al counter electrode in a Dye Sensitized Solar Cell	Thiagarajar College of Engineering
89	Anu Thilak S, Marimuthu M, Habeebullah Sait H and Paranthagan B	Voltage out-turn Design Configuration on High Gain Non-isolated DC/DC Converters for PV supported Application	Saranathan College of Engineering BIT Campus

98	Dr.M.Mahalakshmi Mahadevan, S.Priyanka Saravanan, Dr.S.P.Rajaram Saraswathipandiyan and R.Rajapriya Rajapandi	DISTANT MONITORING AND CONTROLLING OF SOLAR DRIVEN IRRIGATION SYSTEM THROUGH IoT	K.L.N.College of Engineering
104	Karthikeyan .B, S.T.Jaya Christa and Gnanavadivel .J	Design and Evaluation of Modified SEPIC converter Fed BLDC Motor Drive	Mepco Schlenk Engineering College, Sivakasi
114	Karthika Vigneswari Balasubramanian, Kanimozhi Muthupandian and Priyadharsini Rajendran	Summary of converters: Applications	Anna University BIT campus Trichy