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16-18 March 2017**



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Technical Papers

Session	Power System
Date / Time	16 March 2017 Thursday / 1.15 pm to 3.15 pm
Venue	II year ME Class Room
Session Chairs	Dr. R. Rengaraj Dr. K. Usha
Session In-charge	Mr. G. R. Venkatakrishnan
Student In-charge	R. Mahalakshmi & Vela SP

A Novel Comparison of Gauss-Seidel and Newton-Raphson Methods for Load Flow Analysis

Sreemoyee Chatterjee and Suprovab Mandal

Robust and Low Cost Initial Rotor Position Estimation of Permanent Magnet Synchronous Motors based on Low Side Current Sensing

Ravikumar Setty A., PurnaPrajna R. Mangsuli and Kishore Chatterjee

Design and Performance Analysis of Optimal Reduced Order H-infinity Controller: L1 Norm based Genetic Algorithm Technique

Nafees Ahamad, Gagan Singh, Shahala Khan and Afzal Sikander

Wind Energy Conversion System using PMSG for Standalone Load

Sandeep Ojha, Chanchal Sharma and Ashok Kumar Pandey

Integration of Hybrid Renewable Energy and Its Control in Grid Connected and Islanded Mode

Smita Aparajita Pattanaik and Mamun Mishra

Optimal Tracing based Real Power Loss Allocation in Transmission Lines

Dhayalini K. and Mukesh R.

Improved Biogeography Based Optimization Technique for Loss Minimization in Power Distribution Networks

S. Angalaeswari, A. Arunagiri and K. Jamuna

Transient Stability Analysis Comparison of Double 3-ph to 6-ph Converted Transmission Line for Symmetrical and unsymmetrical Faults

T. Charan Singh, K. Raghu Ram and B.V. Sankar Ram

Micro-Grid Grid Robustness Management using Multi Agent Systems

Leo Raju, Ramyaa Rathnakumar, Soundaryaa Ponnivalavan, Thavam L. D. and Antony Amalraj Morais

IOT based Autonomous Demand Side Management of a Micro-Grid using Arduino and Multi Agent System

Leo Raju, Sajna Gokulakrishnan, Prithika Rani Muthukumar, Srinidhi Jagannathan and Antony Amalraj Morais

Session	Power System
Date / Time	16 March 2017 Thursday / 1.15 pm to 3.15 pm
Venue	EEE Seminar Hall
Session Chairs	Dr. C. Vaithilingam, Dr. V. Rajini and Mr. Ganesh Nagarajan
Session In-charge	Mrs Alagu Dheeraj
Student Incharge	Suvetha PS & Minuaishwarya AD

Application of Singular Perturbation Method for Discrete Two Time Scale R Model Power System

G. Vijayakumar, M. S. Krishnarayalu and P. Sujata

GSA based PID Controller Design in Automatic Generation Control for Interconnected Power System

Sangram Keshori Mohapatra, Pabitra Mohan Dash and A.K. Baliarsingh

Bandwidth Design of SRF PLL using Small Signal State Space Modeling with Presence of Harmonics and DC Offset in the Utility Grid

K. Sridharan and B. Chitti Babu

Trees Replace Street Lights

Vikas Chib

Modified Artificial Wolf Pack Method for Maximum Power Point Tracking under Partial Shading Condition

Shweta Gupta and Kumar Saurabh

Analysis and Investigation on Six Phase Transmission System for HVDC Protection

L. Kishore, K. Raghu Ram, B.V. Sankar Ram and M. Imayavaramban

Space Vector PWM Control of BLDC Motor

Kota.Chandrika.Naga.Sridivya and T. Vamsee Kiran

Understanding the Water Droplet Initiated Discharges with Epoxy SiC Nanocomposites under AC Voltage

Animesh Sahoo

Congestion Management using Demand Response Program

Smriti Singh and Ashwani Kumar

Cost Optimization of a Hybrid Energy Storage System using GAMS

Bhaskarjyoti Das and Ashwani Kumar

Session	Embedded Systems
Date / Time	16 March 2017 Thursday / 01.15 p.m. to 03.15 p.m.
Venue	Microprocessor Lab
Session Chairs	Dr. R . Hemalatha Dr. M. Anbuselvi
Session In-charge	Ms. D. Umarani,
Student In-charge	Nivetha S & Kavitha U

IoT based Reconfiguration of Microgrids through an Automated Central Protection Centre

Anay Majee and Gnana Swathika O.V.

Video Survallance Based Face Recognition Using FLTP*C. Maheswari, V. Navya and B. Gowthami***Raspberry Pi based Smart Fire Management System employing Sensor based Automatic Water Sprinkler***Noorinder, Jaspreet Singh and Ekambir Sidhu***Air Heat Plant Control based on IoT with Cloud based Technologies***V.R. Ravi, R. Deepika, N. Hemanth Kumar and P. Pavithra***Wireless Power Transfer Application in Solar Power Inverter Integrated Internet of Things Based Home Automation***Kaibalya Prasad Panda, Nirakar Behera and Shubhrajit Parida***Optimum Coordination of Overcurrent Relays using Two Phase Simplex and Particle Swarm Optimization Algorithm***Nilabhra Banerjee, Ragul Deepak Narayanasamy and O.V. Gnana Swathika***Attendance Automation using Face Recognition Biometric Authentication***Soniya V., Swetha Sri R., Swetha Titty K., Ramakrishnan R. and Sivakumar S.***Evaluating the Output Power of a PV System under Uniform and Non-uniform Irradiance***Neha S. Shah and Hiren H. Patel***Pseudo-Orthogonal Code based Optical Code Division Multiple Access (OCDMA) Link with Encoding/Decoding***G. Guru Prasad, Neelima Koppala and C. Maheswari***Implementation of Template Independent Web News Extraction Approach, Noise Removal and Structured Data Detection to Improve Search for Location Based Services***R. Jeberson Retna Raj, P. Sundeepteja, B. Suryanarayan and T. Sasipraba*

Session	Power Systems and Drives
Date / Time	17 March 2017 Friday / 11 am to 1 pm.
Venue	EEE Seminar Hall
Session Chairs	Dr. Chenthamarai selvam Dr. R. Deepalaxmi
Session In-charge	Ms. S. Krishnaveni, Joselin Jebamalar S & Swathi V
Student In-charge	Joselin Jebamalar S & Swathi V

Remaining Life Estimation of a Overhead Composite Insulator using Particle Swarm Optimization Technique*P.N. Ashitha and S. Ganga***Design of Ground-mat for 11kV Sub-station using AUTO GRID PRO***Jawahar M., Alagammal S. and Jayasankar V.***Improving Power Quality Service For Renewable Energy Using Grid-Connected Inverter***R. Nivedhini and R. Zahira***Harmonic Load Flow Analysis of Radial Distribution System in Presence of Distributed Generation***Ashutosh Kumar Tagore and Atma Ram Gupta***Controller Design for Magnetic Levitation System using Swarm Intelligence Technique***Sirsendu Sekhar Mishra and Chinmay Kumar Das***Comparative Analysis of Single Phase Grid tied Transformerless PV Inverters***P. Gayathri and B. Geethalakshmi*

Available Transfer Capability Calculations Considering Outages

Sourav Deka

Determination of ATC Considering Probabilistic Nature of Solar Radiation

Arpit Kumar and Baidyanath Bag

Artificial Neural Network Predictor for Induced Draft Fan Power Consumption in Thermal Power Plants

A. Sriram, P.R. Venkateswaran and Sishaj P. Simon

Investigation of Mathematical Modelling of Brushless dc motor(BLDC) Drives by using Matlab-Simulink

M. Poovizhi, M. Senthil Kumaran, P. Ragul, L. Irene Priyadarshini and R. Logambal

Session	Power Electronics
Date / Time	17 March 2017 Friday / 11 am to 1 pm.
Venue	Microprocessor Lab
Session Chairs	Dr. Nitin Gupta, Dr. A. N. Aravindan
Session In-charge	Mr. V. Thiagarajan
Student In-charge	Edwin Jose G & Ezhil Venthana K

Current Limit Determination of Brushless DC Motors for Binary Speed Control of Known Load Torque Speed Characteristics

Krishan K. Sharma, A. Swarup and Bhim Singh

Simple and Effective Control of Single Phase Solar Inverter

Nasreen Khan, Afshan Siraj, Javed Khan, Ferheen Mahboob and Ahteshamul Haque

Design of State-PID Feedback Controller for Magnetically Suspended Balance Beam System

Polamraju V.S. Sobhan, M.V. Sudarsan, M. Subba Rao and D. Manikanta Swamy

Model Predictive Direct Torque Control of Neutral Point Clamped Induction Drive

Nishant Kashyap and ShivaniPatidar

Energy Monitoring and Management using Internet of Things

S. Balamurugan and D. Saravanakamalam

Active Power Control Method for Wind Diesel System Based on Energy Storage

Mitesh kumar and Amit Kumar

New Single Phase Asymmetric Multilevel Inverter with Reduced Number of Power Switches

Thiyagarajan V. and Somasundaram P.

Dual Output Converter with a PFC Bridge-Less Buck Front-End

Suganthi K., Vaishnavi R. and Sundararaman K.

Multi-input High Step-up Converter using Switched-Diode-Capacitor

C. Jananie and K. Rajambal

Dynamic Fault Diagnosis Framework for Virtual Machine Rolling Upgrade Operation in Google Cloud Platform

Cauveri A. and R. Kalpana

Session	Power Electronics
Date / Time	17 March 2017 Friday / 02.00 pm to 04.00 pm
Venue	EEE Seminar Hall
Session Chairs	Dr. R. Jayashri Dr. U. Shajith Ali
Session In-charge	Mrs. S. Malathy
Student In-charge	Namitha Shamili SJ & Kripalakshmi T

Current Trends In Power Electronics for Wind and Solar Energy Conversion Systems

Swetapadma Panigrahi and Amarnath Thakur

An Overall Optimization Study of FPGA Controlled High Frequency Electronic Power Conditioner for High Power Space Applications

Bijeev N. V., Peter K. Joseph, Naveen B. Sharma and Vasantry H. Jani

Traveling-Wave Distance Protection using Principal Component Analysis for a Doubly fed System with Synchronized Measurements

Kandru Divyasri, S.S. Bhat and A. Ajayshekhar Reddy

Shunt Active Filter for Harmonic and Reactive Power Compensation Using p-q Theory

Anand Panchbhai, Shreya Parmar and Nikunj Prajapati

Fault Tolerant Peak Current Mode Controlled Flyback Converter for Solar PV Modules

Nishant Kashyap and Aparna Gautam

Performance Analysis of Solar Photovoltaic fed ZSource Inverter based Series Connected Custom Power Device

Miska Prasad and Ashok Kumar Akella

Increasing High Voltage Conversion Ratio of Z Source Inverter for PMSM

N. Sushma Devi, G. Jaya Lakshmi and M. Imayavaramban

Simulation and Study of Three Phase Voltage Source Multilevel Inverter with Reduced Switch Count

Himanshu D. Pillewan, Prachi A. Salodkar and Manoj A. Waghmare

Raspberry Pi: Data Logging IOT device

Tanaya Tavade and Paresh Nasikkar

Shunt Active Filtering with NARX Feedback Neural Networks Based Reference Current Generation

Karan C. Patel, Amit V. Sant and Maharshi H. Gohil

Session	Renewable Energy
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Venue	Microprocessor Lab
Session Chairs	Dr. N. Pandiarajan Dr. R. Ramaprabha
Session In-charge	Ms. D. Umarani
Student In-charge	Kanimozhi M & Suvedha M

Analysis of slope Assisted Maximum Power Point Tracking (SA-MPPT) for Standalone Wind Energy System

Shweta Ghadyalji and Ravindra Moharil

International Conference on Power and Embedded Drive Control

Application of Shunt Active Power Filters in Medical Diagnosis and Critical Lab Equipment

Vijayakumar Gali, Nitin Gupta and R. A. Gupta

Comparative Analysis of Economic Load Dispatch Using Evolutionary and Nature based Algorithms

Apratim Sharma and Shelly Vadhera

Field Simulation of Linear Induction Machines illustrating the Peak-to-Peak Ripple in Propulsive Force and its Dependence on the Length of the Primary

Angshudeep Majumdar and Tapas Kumar Bhattacharya

Energy Analysis of Building Integrated Photovoltaic Modules

A. Karthick, K. Kalidasa Murugavel and Suse Raja Prabhakaran

A Comparative Analysis between Three Stage and Two Stage Bidirectional DC-DC Converter in Battery Storage Application

Bhatt Kunalkumar, R. A. Gupta and Nitin Gupta

Hybrid Fuzzy Logic Controller for Improving Voltage Stability of Grid Connected SCIG Wind Turbine

Pankaj Bhakre and A.G. Thosar

Efficacy of Hysteresis Current Control in the Single-Phase Vienna Rectifier Topologies for Improved Power Quality

A. N. Arvindan, D. K. Akshay, Emil Siby and K. M. Keerthana

High Voltage Gain Soft Switching Converter for Solar Energy AC and DC Applications

S. Hema, A. Arulmathy, V. Saranya and S. Yugapriya

Quasi-ZSI Topology for Renewable Energy System: A Review

Y. Rekha, I. William Christopher and V. Jamuna

Session	Power Systems
Date / Time	18 March 2017 Saturday / 10.15 am to 1 pm.
Venue	ME II Yr Class Room
Session Chairs	Dr. N. B. Muthuselvan Dr. M. Devesh Raj
Session In-charge	Mr. V. S. Nagarajan
Student In-charge	Aswini S & Keerthana I

MRAS Based Predictive Control using Back EMF Estimation for SVPWM Induction Motor

P. Mahesh, G. Rajender Naik, M. Narasimha Rao and C. Venkatesh

Aggregation of Wind Generators for Power System and Transient Stability Studies

Rukmani R., Jeba Angel J. and Devika B.

Optimal Control Study in DFIG based Wind Energy Conversion System using PIGA

Bibhu Prasad Ganthia, Krishna Rout, Vishal Agarwal and Madhura Kamlakar Pardhe

Implementation of Selective Harmonic Minimization PWM on Seven-Level Cascaded H-Bridge Inverter with Improved Inverter Performances and Equal Power Sharing Among Cells

Sourabh Kundu, Arka Deb Burman, Santu kr. Giri, Sarbani Mukherjee and Subrata Banerjee

State of the Art and Future Trends in IRPE of PMSM using High Frequency Signal Injection Techniques

Ravikumar Setty A., PurnaPrajna R. Mangsuli and Kishore Chatterjee

Linear Programming Method to Find the Minimal Placements of Phasor Measuring units for Power System State Estimation

Sandeep Manda, K. Balakrishna and A. Sriharibabu

KGMO for Multi-Objective Optimal Allocation of SVC and Reactive Power Dispatch

Pradeep Panthagani and R. Srinivasa Rao

Decoupled PSO based Rugged Power Flow Method for Loadability Limit Identification

Subham Chakraborty, Ankit Manna, Animesh Gour and Parimal Acharjee

A Novel Module of Synthesis of Energy by Tactile Sensor and Its Application for Charging Life Saving Devices

S. Ramgopal, K.V. Ranjith Kumar and Jeba Angel

Comparative Study of Reference Current Generation for Shunt Active Power Filter

Anand Panchbhai, Nikunj Prajapati and Shreya Parmar

Session	Power Electronics
Date / Time	18 March 2017 Saturday / 10.15 am to 1 pm
Venue	EEE Seminar Hall
Session Chairs	Dr. V. T. Sreedevi, Dr. R. Seyezhai
Session In-charge	Mrs. S. Malathy
Student In-charge	Harika S & Swetha R

Improvement of Bus Voltage Profile of a Target Bus Using Doubly Fed Induction Generator-Based Distributed Generator

Durlav Hazarika, Ranjay Das and Brajesh Gupta

Design and Performance Analysis of Space Vector Pulse Width Modulation based Unified Power Flow Controller

Ashwin Chandwani, Dhyana Baxi and Siddharthsingh K. Chauhan

Precise Temperature Control Using Reverse Seebeck Effect

S. Kodeeswaran, T. Ramkumar and R. Jai Ganesh

Solar Powered Brushless DC Motor drive for Water Pumping System

Harsha Kukde and A. S. Lilhare

Flexible Hybrid Energy Harvesting System to Power Wearable Electronics

B. Naresh, Vinod Kumar Singh and V. Bhargavi

Delay-Dependent Stability Analysis of Damping Compensated Generator-Excitation Control System

K. Ramakrishnan

A Traditional Approach to Load sharing of Inverters with Droop Controllers for Non Linear Loads

P. C. Tejasvi Laxman and Bhattar M. Kowsalya

Power Quality Improvement of Distribution System by Reactive Power Compensation

Neha Smitha Lakra, Prem Prakash and R.C. Jha

A Single Phase Seven Level Inverter Topology for Photovoltaic Application

P.A. Salodkar and P.S. Kulkarni

Design and Simulation of Smart Sockets for Domestic DC Distribution

G. Priyadharshini, N. Raja Nandhini, S. Shunmugapriya and R. Ramaprabha

The Implementation of the Unity Displacement Factor Frequency Converter (Tackling Short Circuit and Overvoltage Problems)

Langa HM and TwalaProf.

Session	Power Systems and Drives
Date / Time	18 March 2017 Saturday / 10.15 am to 1 pm.
Venue	I yr ME class Room
Session Chairs	Dr. M. Balaji , Dr. S. Tamil Selvi
Session In-charge	Mr. P. Saravanan
Student In-charge	Kavitha R & Felishiya R

Design of Hybrid Wind Driven PMSG- Solar PV Power Generation System with Single Stage Converter

Nagmanaj Taj Pathan and S. P. Adhau

Improved Online Current-Error Boundary Computation for Switching Frequency Variation Control in Hysteresis Controlled VSI-Fed IM Drives

Lakshmi R., Joseph Peter, Mohammed Shafi KP and Rijil Ramchand

Analysis of Grid Connected Photovoltaic System

Vaishali Thakre and Bharat Sudame

Development of Test Setup for Full Load testing of High Power Grid Connected Converters

Deepak Gehlot, Prashant Jain, Shoubhik Mukherjee, and Balwanth S. Gautam

Improved DC Bus Voltage Regulation for a DC Distribution System Using Quasi Y Source Converter

K. Fathima, R. Vishnupriya, M. Pavithra and V. Pavithra Devi

ISCAP: Intelligent and Smart Cryptosystem in Android Phone

Brindha S., Deepalakshmi D., Dhivya T., Arul U., Sivakumar S. and Nattar Kannan K.

Automated Unified System for LPG using Load Sensor

Gokula Kaveeya S., Gomathi S., Kavipriya K., Kalai Selvi A. and Sivakumar S.

Characterization of Inset Fed Rectangular Waveguide for Multiple Frequency Operation

Neelima Koppala and G. Guru Prasad

DMMRA: Dynamic Medical Machine for Remote Areas

Jennifer J., Monica Nathasha Marrison, Seetha J., Sivakumar S. and Sathish Saravanan P.

Voltage Regulation by Grid Connected PVSTATCOM

Mohd. Azharuddin and S.R. Gaigowal

Session	Power Electronics
Date / Time	18 March 2017 Saturday / 10.15 am to 1 pm.
Venue	Microprocessor Lab
Session Chairs	Dr. Ramesh Panda, Dr. Ranganath Muthu
Session In-charge	Mrs. Alagu Dheeraj
Student In-charge	Bavani S & Devi S

Closed Loop Speed Control Of Chopper Fed DC Motor For Industrial Drive Application

Chinmay Kumar Das and Subrat Kumar Swain

Inverters for Two Phase Induction Motor

Priyanka Godbole and A.Y.Fadnis

Adaptive Neuro Fuzzy Logic Controller Based Current mode control for Single Phase Power Factor Correction using DC-DC SEPIC Converter

S. Durgadevi and M.G. Umamaheswari

A Single-Phase Multilevel Inverter Topology to Synthesize Multiple Number of Levels Using Common Number of Switches

Manoj A. Waghmare, Prachi A. Salodkar and Himanshu Pillewan

Design and Performance Analysis of a Low Power Solar Photovoltaic Microinverter System

Neha Adhikari

Grid-interactive Power Converter with Improved Control Strategy

B. Chitti Babu, Haider A. F. Almurib, K.M. Begam and K. Sridharan

Design of an Automated Solar Tracking Controller

Aayush Sharma, Varun Vaidya and K. Jamuna

Compensation of Mismatch in PV Characteristics Using DC-DC Converter

Yutika D. Chaudhari and Mahendra Rane

Dynamic Simulation of ST-DTC with Three-Level Inverter for Three-Phase Induction Motor

U. Mahanta, L.S. Barik, B.P. Panigrahi and A.K. Panda

Wavelet Based Transmission Line Differential Protection Scheme

Nilesh Pahade, P.S. Patil and Altaf Badar