

## ICSPACE 2017 - Program Schedule in Detail

<b>Thursday, 17<sup>th</sup> August 2017</b>		
<b>Preconference Tutorials</b>		
8:30 AM to 9:30 AM	Registration & Breakfast	
9:30 AM to 11:00 AM	<p style="text-align: center;">Tutorial 1</p> <p><b>“Power Grid Technologies for an energy system with electricity generation from renewable energy sources and new solutions for energy storage and integration of electrical vehicles”</b></p> <p>Prof. Lina Bertling <i>KTH Royal Institute, Sweden</i></p>	Auditorium, Annexure ‘B’ Block
11:00 AM to 11:30 AM	Tea break	
11:30 AM to 1:00 PM	<p style="text-align: center;">Tutorial 1</p> <p><b>“Power Grid Technologies for an energy system with electricity generation from renewable energy sources and new solutions for energy storage and integration of electrical vehicles”</b></p> <p>Prof. Lina Bertling <i>KTH Royal Institute, Sweden</i></p>	Auditorium, Annexure ‘B’ Block
1: 00 PM to 2:00 PM	Lunch break	
2:00 PM to 3:30 PM	<p style="text-align: center;">Tutorial 2</p> <p><b>“Power Swing Phenomenon and Out of Step Protection Design Considerations”</b></p> <p>Dr. Nagaraja R <i>MD, PRDC, Bangalore</i></p>	Auditorium, Annexure ‘B’ Block
3:30 PM to 4:00 PM	Tea break	
4:00 PM to 5:30 PM	<p style="text-align: center;">Tutorial 2</p> <p><b>“Power Swing Phenomenon and Out of Step Protection Design Considerations”</b></p> <p>Dr. Nagaraja R <i>MD, PRDC, Bangalore</i></p>	Auditorium, Annexure ‘B’ Block
<b>Friday, 18<sup>th</sup> August 2017</b>		
<b>Conference</b>		
8:00 AM to 9:00 AM	Registration & Breakfast	
9:00 AM to 11:00 AM	Inaugural Session	Auditorium, Annexure ‘B’ Block
11:00 AM to 11:30 AM	Tea break	
11:30 AM to 1:00 PM	Paper Presentations	
	<p><b>Session 1</b></p> <p>Title: <b>Renewable Energy</b></p> <p>Venue: B301, 3<sup>rd</sup> Floor, Annexe -II, ‘B’ Block</p> <p><b>ICSPACE-015:</b> Simulation study of partial shading effect on series, parallel and series-parallel connected PV modules</p>	<b>Track 1</b>

- *Aravinda M, &Padmavathi K*

**ICSPACE-040:**Analytical Modelling, Simulation, and Comparative Study of Compound Alloy based Tandem Solar Cells – An Efficient Way of Renewable Energy Management

- *Rudrarup Sengupta, Tapas Chakrabarti, &Subir Kumar Sarkar*

**ICSPACE-046:**Designing a Stand-Alone Wave Energy Generation System

- *Shubham Sarkar, Ronald Joseph, Kshitij Mohan, & Chetan Mathias*

**ICSPACE-107:**HIT Solar Cell using ZnTe as an emitter layer

- *Tapas Chakrabarti, Malay Saha, Ambar Khanda, &Subir Kumar Sarkar*

**ICSPACE-138:**Application of an Efficient MPPT Method for a PV System Using SEPIC Converter

- *Aishwarya S Kokare & Sangita B Patil*

**ICSPACE-316:**Current Source Multi Level Inverter for Renewable Energy Integration

- *R. Mahalakshmi, K. Deepa, & K.C. Sindhu Thampatty*

### Session 1

Title: **Power Electronics in Power Systems**

Venue:**B302, 3<sup>rd</sup>Floor, Annexe -II, 'B' Block**

**ICSPACE-018:** Design and Integration of Two Phase Interleaved DC/DC Converter and Eight SwitchInverter for Electric Vehicle Application

- *Gururaj Patil & M S Aspalli*

**ICSPACE-021:**Design of Robust H-infinity Speed Controller for High Performance BLDC Servo Drive

- *Dhaneesh Krishnan T V, Krishnan C M C, & K Panduranga Vittal*

**ICSPACE-047:**Induction Motor Drive based Modelling and Simulation approach for Anchor Operation

- *Shree Harsha K, &C. Lakshminarayana*

**ICSPACE-050:** Modified differential evolution algorithm for optimal power flow with FACTS devices

- *Rudra Pratap Singh, Dharmbir Prasad, Pankaj Kumar, & Md. Irfan Khan*

**ICSPACE-080:** Design and Implementation of Pulsed Output Interleaved Flyback converter with Lossless snubber and current mode control

- *Gagan M N, Usha A, Jagadeesh S, Bhoopendra Kumar Singh, & Vinod S Chippalkatti*

**ICSPACE-098:**Newton-Raphson's Successive approximation method based TCSC controller

- *Gagan M N, Shree Harsha K, & R.S.Geetha*

Track 2

	<p><b>ICSPACE-103:</b>Automatic Testing of Medium Voltage Drive using OPC Server Interface - <i>Nitin Adlok &amp; Abhijit Nikam</i></p> <p><b>Session 1</b> Title: <b>Energy Management</b> Venue: B303, 3<sup>rd</sup> Floor, Annexe -II, 'B' Block</p> <p><b>ICSPACE-051:</b> Power Supply for Smart Meters - <i>Deepak Vasant Kallannavar, Prema V, &amp; Ganesh Shankar</i></p> <p><b>ICSPACE-068:</b> Optimal Battery Charging Approach Based on Day Ahead Pricing by Comprehending Sustainable Energy - <i>Parvathy S &amp; Nita R. Patne</i></p> <p><b>ICSPACE-101:</b> Design &amp; fabrication of small scale horizontal axis wind turbine and performance analysis of the turbine - <i>Sandesh Acharya, Asim Pokhrel, Bharat Bohara, &amp; Bikesh Shrestha</i></p> <p><b>ICSPACE-111:</b> Design and implementation of ZigBee based Home-Automation system for smart lighting control using MeshBee JN5168 controller - <i>Sourabh Kemparaju, A. Usha, &amp; Sanjay Lakshminarayan</i></p> <p><b>ICSPACE-177:</b> Transient Analysis of AC Microgrid - <i>Rahul K. Ambade &amp; Pranay S. Shete</i></p> <p><b>ICSPACE-300:</b> Simulation and Performance Analysis of a Three Phase Voltage Source Converter with Energy Storage - <i>Jayashree M &amp; Nagesh Prabhu</i></p> <p><b>ICSPACE-315:</b> Enhancement of Oscillatory Response of DFIG based Wind Energy Conversion System - <i>K.Reethika Raj &amp; R. Mahalakshmi</i></p>	<b>Track 3</b>
1: 00 PM to 2:00 PM	Lunch break	
2:00 PM to 3:30 PM	<p><b>Panel Discussion</b> (Synergy between Smart Cities and Smart Grid Infrastructure) <b>Chair &amp; Moderator</b> :Dr. Balaraman K <i>Chief General Manager, PRDC, Bengaluru</i></p>	Auditorium, Annexure 'B' Block
3:30 PM to 4:00 PM	Tea break	
4:00 PM to 5:30 PM	Paper Presentations	
	<p><b>Session 2</b> Title: <b>Power Electronics in Power Systems</b> Venue: B301, 3<sup>rd</sup> Floor, Annexe -II, 'B' Block</p>	<b>Track 1</b>

**ICSPACE-058:**A Fixed Frequency ZVS Integrated Boost Dual Three-Phase Bridge DC-DC LCL-type Series Resonant Converter for Large Power Applications

- *Nagendrappa Harischandrappa & Ashoka K. S. Bhat*

**ICSPACE-108:** Design and Implementation of Power Electronic Converters in Wind Turbine System

- *Bhavya Shanmugam, Ravishankar Deekshit, & Prahallad C R*

**ICSPACE-126:** Flyback topology based Multi-Output Pulsed Power supply with Planar Magnetic Technology and Current mode control method

- *Prasanna kumar R, Ravishankar Deekshit, Rayees K.E, Ramakrishnareddy G, Bhoopendra K Singh, & Vinod Chippalkatti*

**ICSPACE-132:**Dual Three Phase Induction Motor Control using Five Leg Inverter

- *Jayaprakash Sabarad, G.H.Kulkarni, & Sushma Sattigeri*

**ICSPACE-156:** Performance Evaluation of a Novel Bifurcated Winding Induction Generator by Finite Element Model

- *Nikhil Jha, Pradeep Desai, Shaiek Khalid Ahmed, Sathyasheelan S & P. Meena*

**ICSPACE-158:**Simulation Comparison of Resonant Reset Forward Converter with Auxiliary Winding Reset Forward Converter

- *Guruprasad Angadi & A Sreedevi*

**ICSPACE-159:**Multiple Output Fly back Converter with primary side current mode control for defence Applications

- *Nishanth B Kulkarni, A Sreedevi, Sukumar Patil, Bhanuprakash C V, Bhoopendra Kumar Singh, & Vinod Chippalkatti*

## Session 2

Title: **Control Systems**

Venue: B302, 3<sup>rd</sup> Floor, Annexe -II, 'B' Block

**ICSPACE-009:** Minimization of Torque Ripple using DITC with Optimum Bandwidth and Switching Frequency for SRM Employed in Electric Vehicle

- *Nayak D. Veena & Naik L. Raghuram*

**ICSPACE-030:** A PID Controller Tuning Rule for FOPDT

Track 2

Process to Achieve Better Load Disturbance Rejection Based on Maximum Sensitivity

- *Ashraf Raza, Nupur Pathak, & Md Nishat Anwar*

**ICSPACE-055:** Modeling fuzzy logic controller for switched reluctance motor with using Matlab and fuzzy logic toolbox kit

- *Alexander Ivanov & Ilya Kalanchin*

**ICSPACE-062:** Robust Control Analysis using  $\mu$ -Synthesis for Nonlinear Control System

- *Akash E. Mhankale, Ajay B Patil, & Gajanan B. Chavan*

**ICSPACE-084:** Analysis of P & O Control Algorithm for Stand-alone PV System by Using Direct Ratio Control and Reference Voltage Control with PI

- *Dhananjay Kumar, Amarnath, Md.Ovais Ansari, & Rishi Kumar Singh*

**ICSPACE-183:** Bacteria foraging optimized and Modified PSO optimized PD-SMC and PID-SMC controller for Inverted Pendulum system

- *Nitisha Bordoloi & Mrinal Buragohain*

**ICSPACE-310:** A closed loop system to stabilize a 24V Solar DC Nano Grid

- *Manavalan G, Tania H M, Jagadish Kumar Patra, Poongothai M G, & Prema S*

## Session 2

Title: **Power Quality issues & Protection**

Venue: B303, 3<sup>rd</sup> Floor, Annexe -II, 'B' Block

**ICSPACE-036:** Power Quality Improvement and Mitigation of Harmonic Distortion using DSTATCOM with PI and Fuzzy Logic Controller

- *Subhadip Bhattacharya & Benjamin A. Shimray*

**ICSPACE-048:** A Novel Power Factor Correction Technique for Single Phase AC to DC Conversion

- *Harshit Agarwal*

**ICSPACE-074:** A Hybrid Parallel Inverter Topology for Power Quality Enhanced Microgrid

- *Sabna P. K & Manoj Kumar M.V*

**ICSPACE-087:** Improving system performance using electric spring with current source inverters

- *Jaison Cherian & Sumiya Shajihan*

**ICSPACE-104:** Five-Level NPC/H-Bridge MLI based Electric Spring for Harmonic Reduction and Voltage Regulation

- *Kalyani Gajbhiyea, Payal Dahiwalea , Samruddhi Bhartia , Rutuja Pawara , & S.P.Gawande*

Track 3

	<p><b>ICSPACE-109:</b>Analysis of Energy Transfer Methodology and Efficiency Estimation for Active DC-Link Capacitor for Harmonic Reduction - <i>Minakshi Kore &amp; Balaji N</i></p> <p><b>ICSPACE-135:</b>A MSP430 Controller based Class – D Audio Power Amplifier with DLDPC PWM Switching - <i>Shashank Hegde, A.N Nagashree, &amp; Vedagiri Babu</i></p>	
5:30 PM to 6:30 PM	<b>Break &amp; Interactions</b>	
6:30 PM to 7:00 PM	<p style="text-align: center;"><b>Plenary Talk 1</b></p> <p><b>Future Lighting Systems</b> Dr. A. Narendranath Udupa <i>Director and Department Head, Philips Lighting Research, Bengaluru</i></p>	Auditorium, Annexure 'B' Block
7:00 PM to 8:30 PM	<b>Felicitation of Committee Members &amp; Cultural Programme</b>	Auditorium, Annexure 'B' Block
8:30 PM to 9:30 PM	<b>Banquet Dinner</b>	
<b>Saturday, 19<sup>th</sup> August 2017</b>		
<b>Conference</b>		
9:00 AM to 10:30 AM	<b>Paper Presentations</b>	
	<p><b>Session 3</b> Title: <b>Power Electronics in Power Systems</b> Venue: B301, 3<sup>rd</sup> Floor, Annexe -II, 'B' Block</p> <p><b>ICSPACE-182:</b> Performance Analysis of Open End Winding Induction Motor Drive using Center Spaced PWM and Bus Clamping PWM Techniques - <i>M.Ranjit, T.Brahmananda Reddy, &amp; M.Surya Kalavathi</i></p> <p><b>ICSPACE-204:</b>A Simplified Space Vector Pulse Width Modulation for three phase three-level diode clamped Inverter - <i>Debanjan Roy &amp; Madhu Singh</i></p> <p><b>ICSPACE-206:</b>Multiple Output PUSH-PULL Converter with Post Regulated Buck Converters - <i>Vivek Ram P, Namitha Bhat K, &amp; Mala R.C</i></p> <p><b>ICSPACE-213:</b>A Hybrid Modular Multilevel Converter Topology with Modified Phase-Shifted Carrier Pulse-Width Modulation Scheme - <i>Rashmi Ranjan Behera &amp; Amar Nath Thakur</i></p> <p><b>ICSPACE-217:</b> Design and Implementation of Half-Bridge LLC Resonant Converter with Integrated transformer for Compact Design - <i>Kotari Sri Harsha Babu, L. Venkatesha, Bhanuprakash.C.V, Bhoopendra Kumar Singh, &amp; Vinod S Chippalkatti</i></p> <p><b>ICSPACE-296:</b>Small Signal Stability Analysis of DFIG Based</p>	<b>Track 1</b>

Wind Farms Connected to SMIB

- *Nilay N Shah & S.R.Joshi*

**ICSPACE-317:**Comparative Analysis of Level-Shift PWM in 31-level MLI Topology

- *Sandra Joji, Aravind N Kumar, Aruna Tangirala, Diwagar S.V, & Mini Sujith*

### Session 3

Title: **Power Quality issues & Protection**

Venue: B302, 3<sup>rd</sup> Floor, Annexe -II, 'B' Block

Track 2

**ICSPACE-143:** Mitigation of Harmonics using Hysteresis Control Technique of VSI Based Active Power Filter

- *Harshithananda B, Priyashree S, & Vidya H A*

**ICSPACE-222:** Controller Design for the Existing TCSC in Indian Power system Using Remote Input Signal Obtained by PMU for Stability Enhancement

- *Pritwish Mukhopadhaya, Surajit Banerjee, & Saibal Ghosh*

**ICSPACE-235:** Performance Evaluation of DCM SEPIC Rectifier with Ripple Free Input Current for PFC Applications

- *Jyoti Gupta & Ashok Kumar Sharma*

**ICSPACE-266:** Experimental analysis of Symmetrical & Asymmetrical PWM based Single Phase AC chopper for Power Quality Improvement using FPGA real time controller

- *Venkatesha K, Vidya H A, Ruma Sinha, & Jayachitra G*

**ICSPACE-290:** Preprocessing of experimental Partial Discharge Signals in insulation samples using Adaptive Signal Processing

- *Madhu S, Sumathi S, & Vidya. H.A*

**ICSPACE-291:** A Novel approach for Partial Discharge Pattern Recognition based on FP<sup>3</sup>CM-ENN

- *Sumathi S, Madhu S, & Vidya. H.A*

**ICSPACE-318:** Estimation of Arc Voltage Characteristic for High Current Fault Arcs

- *Pranav Katare, Rajaramamohanarao Chennu, Ramachandra B, Sudhakar Reddy, & Anupam Awasthi*

### Session 3

Title: **Distributed Generation**

Venue: B303, 3<sup>rd</sup> Floor, Annexe -II, 'B' Block

Track 3

**ICSPACE-010:** An Under-Frequency Load Shedding Method

	<p>Based on Combination Protection Zoning and Random Priority of Loads for Smart Grids</p> <ul style="list-style-type: none"> <li>- Mehdi Alvandi, Hossein Kazemi Karegar, &amp; Ehsan Pour Esmaeil</li> </ul> <p><b>ICSPACE-045:</b>Sensors and Control System Models for Wind Power Generation</p> <ul style="list-style-type: none"> <li>- Surabhi Ramesh Dattawad, Prahallad C R, &amp; Ravishankar Deekshit</li> </ul> <p><b>ICSPACE-060:</b>Genetic algorithm and reconfiguration for loss minimization in Radial Distribution System</p> <ul style="list-style-type: none"> <li>- P. Ravi Babu, Sushma Pasunuru, &amp; Gattu Vaishnavi</li> </ul> <p><b>ICSPACE-113:</b>Integration of Wind Farm to VSC-HVDC System</p> <ul style="list-style-type: none"> <li>- Subin jose &amp; R.S.Geetha</li> </ul> <p><b>ICSPACE-172:</b> Allocation of Solar DG in radial distribution system using Whale Optimization Algorithm</p> <ul style="list-style-type: none"> <li>- Prakash D B, &amp; C Lakshminarayana</li> </ul> <p><b>ICSPACE-313:</b>PSO based Distribution Network Feeder Reconfiguration with PV-type multiple DGs</p> <ul style="list-style-type: none"> <li>- R. Chidanandappa , T Ananthapadmanabha, &amp; Pooja H. R</li> </ul>	
10:30 AM to 11:00 AM	<p style="text-align: center;"><b>Plenary Talk 2</b></p> <p><b>Role of Power Electronics in Alternate Energy Systems</b> Dr. Ashoka K.S Bhat <i>Victoria University, Canada</i></p>	Auditorium, Annexure 'B' Block
11:00 AM to 11:30 AM	<b>Tea break</b>	
11:30 AM to 12:00NOON	<p style="text-align: center;"><b>Plenary Talk 3</b></p> <p><b>Wireless Power Transfer</b> Mr. Adnan Bohori <i>General Electricals, Bengaluru, India.</i></p>	Auditorium, Annexure 'B' Block
12:00NOON to 1:30 PM	<p style="text-align: center;"><b>Panel Discussion (Energy Scenario – 2020 and beyond)</b></p> <p><b>Chaired &amp; Moderator:</b>Dr. Narendra Nath Udupa, <i>Director and Department Head, Philips Lighting Research Bengaluru</i></p>	Auditorium, Annexure 'B' Block
1:30PM to 2:30 PM	<b>Lunch break</b>	
2:30PM to 4:00 PM	<b>Paper Presentations</b>	
	<p><b>Session 4</b> Title: <b>Fault Diagnosis in Power Systems</b> <b>Venue:</b>B301, 3<sup>rd</sup>Floor, Annexe -II, 'B' Block</p> <p><b>ICSPACE-035:</b> Fault-ride Through Capability of a Distribution System with Diesel, Solar and Wind Distributed Generators</p> <ul style="list-style-type: none"> <li>- L Reddy Lella</li> </ul> <p><b>ICSPACE-053:</b> Survey of Electromagnetic Field near EHV</p>	<b>Track 1</b>



Lines and Their Health Hazards

- *Raghu N, Krishna Murthy N, Nagendra K, & Trupti V. N*

**ICSPACE-149:** An analysis of time current characteristics of adaptive inverse definite minimum time (IDMT) overcurrent relay for symmetrical and unsymmetrical faults

- *Sandesh Acharya, Shailendra Kumar Jha, Ravi Shrestha, Asim Pokhrel, & Bharat Bohara*

**ICSPACE-160:**A Hybrid GA - Interval Lineary Programming Implementation for Microgrid Relay Coordination Considering Different Fault Locations

- *Srinivas STP & K. Shanti Swarup*

**ICSPACE-179:**Modified Fuzzy logic technique for Power Transformer fault prediction

- *A.Kumar, Vidya H A, Balagopal Reddy G*

**ICSPACE-241:**Design and Implementation of a Microgrid-Fault Response System

- *Aditya Wasekar, Shubham Sarkar, Akash Patil, & Aditya Hartalkar*

**Session 4**

Title: **Advanced Technologies in Electrical & Electronics Engg.**

Venue: B302, 3<sup>rd</sup> Floor, Annexe -II, 'B' Block

**ICSPACE-005:** Design and Implementation of Dual Port SRAM Memory Architecture using MOSFETs

- *Seema Srinivas & Anandthirtha B Gudi*

**ICSPACE-078:** Estimation of Severity of Amyotrophic Lateral sclerosis Using Signal Processing Techniques

- *Aishwarya DKS, H K Shreedhar, & Anandthirtha B Gudi*

**ICSPACE-112:** Pencil drawn films as Ammonia gas sensors

- *Rekha P, Subodh Kumar Panda, & M. S. Suresh*

**ICSPACE-118:** 16-bit GDI Multiplier Design for Low Power Applications

- *B.N Manjunatha Reddy, Shanthala S, & B.R. VijayaKumar*

**ICSPACE-170:** Target Tracking using Adaptive Kalman Filter

- *Gaurav Kumar, Dharmbir Prasad, & Rudra Pratap Singh*

**ICSPACE-221:** Design and Simulation of a Power Supply Unit for a Radio Relay using UPS Technology

- *Sachin, V Champa, & Ramdas T*

**ICSPACE-289:** Design of 60 GHz CMOS Power Amplifier to Improve Power Added Efficiency

- *Rakshitha P, Bindu A, Pavan Kumar B V, Rashmi S B, & Siva S yellampalli*

Track 2

4: 00 PM to 4:30PM	Tea break	
4:30 PM to 5:00 PM	<p>Plenary Talk 4</p> <p><b>Cyber security in digitalization of power grids</b></p> <p>Mr. Vijayan SR</p> <p><i>Assistant Vice President, Technology Manager, Smart Grids and Cyber Security, Power Grids Division, ABB India Limited.</i></p>	Auditorium, Annexure 'B' Block
5:00 PM to 5:30 PM	Valedictory Session	
		Auditorium, Annexure 'B' Block