

2020 IEEE International Power and Renewable Energy Conference

Day 1 30 October 2020

Session 1: Renewable Energy Resources & Energy Policies and Standards

DURATION: 10:00 AM TO 12:00 NOON

Time	Paper ID	Authors	Paper Title
10:00AM	73	Raihan Chowdhury, Md. Abdul Aowal Nahayan. Sk. Md. Golam Mostafa, Md. Abdur Rahman	Floating Solar Photovoltaic System: An Overview and their Feasibility at Kaptai in Rangamati
10:15AM	119	Hrudya Ravula , Sridevi Bollapragada	Solar Window as an Energy Source : A Patent Study
10:30AM	161	Leleedhar Rao Kola, Amit Jain	A Study on Exploration for Resource Utilization of Solar Energy on the Roof of APSRTC Buses
10:45AM	173	Rani Chacko , Soni Raju, Z Lakaparampil , Jaimol Thomas	Computation based Comparison of LVDC with AC for Off-Grid Energy Efficient Residential Building
11:00AM	180	Bhavik N Prajapati, Mahipalsinh Chudasama	Modeling of Grid Connected PMSG based WECS

11:15AM	182	NISHA R, Dr. Gnana Sheela K	Non Inverting Buck-Boost Converter with PV fed BLDC Drive for Irrigation
11:30AM	158	Sreenu Sreekumar	One Day Ahead Indian Electricity Price Forecasting Using Intelligently Tuned SVR
11:45AM	183	Ajith V Saju	Improve Re-Usability of Electronic Components Across Various Industries By Maintaining
Session 2: Electric and Hybrid Vehicles & Energy Storage & Battery Charging Techniques			
DURATION: 1:00 PM TO 2:30 PM			
1:00 PM	2	Hemanth Kumar, K Bhaskar	Electrical Energy Extraction from Unused Heat Energy of Hybrid EVs by Using Peltier Panel for Auxiliary Loads
1:15PM	74	Dimna Denny, Ramesh Kumar P, Jasmin E A	Super Twisting Algorithm Based Slip Ratio Control of Electric Vehicles
1:30PM	99	Rohaan George Thomas, Santosh Saraswat, Arpit Rastogi, Abhijeet Digalwar	On-grid system evaluation for EV charging stations using renewable sources of energy

1:45PM	109	Meera Khalid, Binoj A C	Performance Analysis of Vector controlled PMSM Drive modulated with Sinusoidal PWM
2:00 PM	164	Fabian C Tauro , Bindu	Design of a Full-Bridge Converter for Lead-Acid Battery Charging and Powering DC Loads

IPRECON 2020 Inauguration Time: 4:00 PM – 5:15 PM

Keynote

Mr. M Rezwan Khan
Professor, United International University, Bangladesh

Future of solar PV applications: Bangladesh perspective
Time: 5:30 PM – 6:30 PM IST

Day 2 31 October 2020

Session 1: Distributed Generation and Grid Interconnection and Power Quality Issues

DURATION: 10:00 AM TO 12.45 PM

10:00AM	86	Bokkisam Hanumantha Rao, Selvan M	Prosumer Participation in a Transactional Energy Marketplace: A Game-Theoretic Approach
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10:15AM	91	Mufsina A M, Dr.Shahin M, Nirmal Mukundan, Jayaprakash P	A Modified SEPIC Converter-Based Solar Power Integration with Single Phase Utility Bus
10:30AM	125	Rahul Dogra, B.S. Rajpurohit, Narasareddy T	Islanding detection technique for multi-port grid integrated DC microgrid based on superimposed components
10:45AM	133	Kurven Patel, Nilesh Rabara	Investigation of High Voltage Circuit Breaker by Mathematical Modelling of Arc Behaviour
11:00AM	136	Reshma P, Dr. Suresh Damodaran	Optimal Allocation of Renewable Energy Resources in Microgrid Considering Stochastic Behaviour
11:15AM	13	Surasmi N L, Shiny G	Harmonic Mitigation in Induction-Motor Drives using Active Filtering Approach

Break: 11:30 AM – 11:45 AM IST

11:45AM	19	Prakash Makhijani, Bhumika Parihar, Chirag Soni, Mitesh Solank	Case Study: Power Factor Improvement And Harmonic Analysis
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02:00PM	37	Vivek Kumar Sharma, Adil Usman B.S. Rajpurohit	Vibration Analysis of Brushless Permanent Magnet Motor using Numerical Methods: Part I
02:15PM	72	Vivek Kumar Sharma, Adil Usman B.S. Rajpurohit	Fault Diagnosis of BLDC Motor Drive using Vibration Spectrum Analysis: Part II
02:30PM	92	Deepa M.U, Dr.Bindu G.R	A Novel Switching Scheme for Regenerative Braking and Battery Charging for BLDC motor Drive
02:45PM	168	Sangeeth P	Effective Saliency Based Initial Rotor Position Estimation of Permanent Magnet Synchronous Motor for High torque applications

Special Session

Dr. Peter Magyar
Consultant M&PP, Director of
Chapter Development, IAS

The potential of electricity-based fuels of
low-emission transport
4:00 PM – 5:00 PM

keynote

Dr. Tomy Sebastian
Immediate Past President IAS

Developments in Vehicle Electrification
6:00 PM – 7:00 PM IST

Session 1: Power Electronic Converters and Control Systems

DURATION: 10:00 AM TO 12:00 NOON

10:00AM

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Arya Venugopal

Photovoltaic Integration of a Transformer based Multi Level Inverter with lesser components

10:15AM

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Tapas Mohapatra ,
Asim Kumar Dey,
Krushna Keshab Mohapatra

A New current control technique for minimization of sub and inter harmonics in 1-phase H-bridge inverter

10:30AM

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Siddhant Kumar,
B.S. Rajpurohit

A Novel Fault Tolerant Control Scheme for Power Converter

10:45AM

51

Dipa J Kapupara

Modeling of LLC converter
Using Synchronous
Reference Frame Transfor-
mation Approach

11:00AM

97

Kumaravel S, Athira E R,
Haritha G, Ashok S

Xilinx System Genera-
tor-based Rapid Prototyping
of Different Control Strategies
for Solid State Transformer

11:15AM

145

Niviya Varghese,
Rabiya Rasheed

Design of a New Five Level
MLM based Multilevel
Inverter

11:30AM

114

Alexander Dahlmann,
Venkata Yaramasu ,
Samir Kouro,
Matias Aguirre,
Tripura Pidikiti

Modulated Model Predictive
Current Control of a
Three-Phase Photovoltaic
Central Inverter

Keynote

Mr. Frede Blaabjerg

President of IEEE Power Electronics Society(2019-2020)

Power Electronics – the key technology for
grid integration

Time: 2:00 PM – 3:00 PM IST

Closing Ceremony: 3:00 PM – 4:00 PM