Annual Conference of the IEEE Industrial Electronics Society (IECON 2021)

Special Session on

"Power Electronics for Energy Access and Off-Grid Systems"

Organized by

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Call for Papers

Affordable and Clean Energy is the objective of UN Sustainable Development Goal 7 where all the means and ways to achieve 100% electricity to all is being worked out. Renewable energy sources such as PV, Wind energy, hydro power is considered as clean energy. Power electronics can play a key role in integrating the various renewable energy sources to the point of load. It can be achieved through scaled down converter prototypes and distributed converter prototypes.

Topics of interest include, but are not limited to:

- Solutions for energy access
- DC and AC Microgrids
- DC-DC converters for DC microgrids
- Grid-integration issues
- AI/ML techniques applied for off-grid system optimization
- Protection issues in Off-grid systems
- Energy Sustainability and GHG mitigation techniques through off-grid systems
- Development of dynamic DC loads for DC Microgrids.

Submissions Procedure: All the instructions for paper submission are included in the conference website**: https://attend.ieee.org/iecon-2021/**

Good quality papers may be considered for publication in the IEEE Trans. on Industrial Electronics, subject to further rounds of review.

Deadlines:

Full paper submission	:	June 25, 2021
Paper acceptance notification	:	July 30, 2021
Camera-ready paper submission	:	Aug. 27, 2021
Conference dates	:	Oct. 13-16,2021

Organizers:

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Venkatesh Boddapati was born in India and received his B.Tech (Electrical and Electronics Engineering) from Acharya Nagarjuna University, Guntur, Andhra Pradesh, and M.Tech (Power Electronics) from B.M.S College of Engineering ,Bangalore, Karnataka, India in the year 2009 and 2011, respectively. He is pursuing his Ph.D. degree in department of EEE at NIT,Tiruchirappali, Tamil Nadu,India under AICTE-QIP scheme, sponsored by Govt. Of India and B.M.S College of Engineering ,Bangalore. Currently he is an Assistant Professor in the Department of Electrical and Electronics Engineering, B.M.S College of Engineering, Bangalore. His areas of interest include Renewable Energy, Micro-grids and designing of hybrid energy based Electric vehicle charging stations.

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Dr. A Rakesh Kumar (M'14–SM'21, IEEE) completed his Bachelors in Engineering with a honors in ``Electrical and Electronics Engineering'' from Anna University, Chennai, India in 2011 and Masters in Engineering in ``Power Electronics and Drives'' from Anna University, Chennai, India in 2013. He worked as Assistant Professor with the Department of EEE, Rajalakshmi Engineering College, Chennai, India from 2013 to 2015. He then went on to join for a full time PhD with the School of Electrical Engineering (SELECT), Vellore Institute of Technology (VIT) from 2015 to 2019. He was also serving as Teaching cum Research Assistant from 2015 to 2019 with the same. Currently, he is a Post-Doctoral Fellow with the Nano and Micro grid lab, Department of EEE, National Institute of Technology, Tiruchirappalli, India.

Dr. Ramjee Prasad, Fellow IEEE, IET, IETE, and WWRF, is a Professor of Future Technologies for Business Ecosystem Innovation (FT4BI) in the Department of Business Development and Technology, Aarhus University, Herning, Denmark. He is the Founder President of the CTIF Global Capsule (CGC). He is also the Founder Chairman of the Global ICT Standardisation Forum for India, established in 2009. GISFI has the purpose of increasing of the collaboration between European, Indian, Japanese, North-American and other worldwide standardization activities in the area of Information and Communication Technology (ICT) and related application areas. He has been honored by the University of Rome "Tor Vergata", Italy as a Distinguished Professor of the Department of Clinical Sciences and Translational Medicine on March 15, 2016. He is Honorary Professor of University of Cape Town, South Africa, and University of KwaZulu-Natal, South Africa. He has received Ridderkorset af Dannebrogordenen (Knight of the Dannebrog) in 2010 from the Danish Queen for the internationalization of top-class telecommunication research and education. He has received several international awards such as: IEEE Communications Society Wireless Communications Technical Committee Recognition Award in 2003 for making contribution in the field of "Personal, Wireless and Mobile Systems and Networks", Telenor's Research Award in 2005 for impressive merits, both academic and organizational within the field of wireless and personal communication, 2014 IEEE AESS Outstanding Organizational Leadership Award for: "Organizational Leadership in developing and globalizing the CTIF (Center for TeleInFrastruktur) Research Network", and so on. He has been Project Coordinator of several EC projects namely, MAGNET, MAGNET Beyond, eWALL and so on. He has published more than 50 books, 1000 plus journal and conference publications, more than 15 patents, over 145 PhD Graduates and larger number of Masters (over 250). Several of his students are today worldwide telecommunication leaders themselves.

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