

IEEE eGrid 2021

Nov 8-10, 2021



Call for Papers

The 6th IEEE Workshop on the Electronic Grid (eGrid 2021) will be held on November 8-10, 2021 on-line. This workshop is jointly sponsored by IEEE Power Electronics Society (PELS) and IEEE Power & Energy Society (PES). With the increasing applications of power electronics in the power grid, the two independent areas are integrated more closely. eGrid provides an international forum for academics and industry in the field of electronic grid to exchange information on their latest research ideas, progresses, developments, experiences, achievements, state-of-art technical trends, and applications. The previous eGrid workshops have been held with great success in Hefei China (eT&D 2016), Aalborg Denmark (eT&D 2017), Charleston USA (eGrid 2018), Xiamen China (eGrid 2019), and Aachen Germany (eGrid 2020). The conference papers will be indexed by EI and included in IEEE Xplore.

The Virtual Workshop will be linked to an event on inverter intensive microgrids and will propose a rich program of invited speakers from industry, research centers, and academia.

Main Topics

- ☆ High power electronic devices and converter
- ☆ Impacts of high-power electronic devices on power grids
- ☆ System-level control and integration of eGrid
- ☆ eGrid requirements for resilient networks
- ☆ Regulatory and policy aspects for eGrid
- ☆ Solid-state protections
- ☆ Cyber and physical grid security
- ☆ Communications and control of microgrids
- ☆ Artificial intelligence and machine learning applications in eGrid
- ☆ Standard development for eGrid
- ☆ HVDC and multi-terminal HVDC
- ☆ Solid-state power substations
- ☆ Virtual power plants with 100% renewable penetration levels and grid-forming substations
- ☆ System services requirements for eGrid
- ☆ Role of grid-forming converters for eGrid



Paper Submission

All authors worldwide are invited to submit their extended summary in a single column with a text font size of 11pt. The summaries should be of no more than 3 pages including figures through the conference website <https://egrid2021.exordo.com/>

The submission must clearly state: the purpose of the work; the manner and degree to which it advances the art; and specific new results that have been obtained and their significance. Full papers should use the IEEE conference template with maximum 8 pages. Significant inconsistency between the accepted digests and the final full paper will be ruled out from the final proceeding.

Contact Information

Xiang Gao, xg@tf.uni-kiel.de

Important Dates

Extended Digest Submission Sep 12, 2021

Notification of Acceptance Oct 17, 2021

Final Paper Submission Oct 31, 2021

Committees

General Chairs

Marco Liserre

Kiel University, Germany

Jianhui Wang

Southern Methodist University, USA

Technical Program Chairs

Richard Zhang

Virginia Tech, USA

Kai Sun

Tsinghua University, China

Carlos Moreira

INESC TEC, Portugal

Don Tan (Chair)

IEEE Division II Director

Organizing Committee Chairs

Lorenzo Reyes

Universidad Austral de Chile, Chile

Johan H. R. Enslin

Clemson University, USA

Shreyas Pawale

Amazon, USA

Xiang Gao

Kiel University, Germany

Arif Sarwat

Florida International University, USA

Zheyu Zhang

Clemson University, USA

Treasurer

Xiaonan Lu

Temple University, USA

Web-master

Shreyas Pawale

Amazon, USA

Justino M. Rodrigues

INESC TEC, Portugal

Microgrid Workshop Chairman

Xiaonan Lu

Temple University, USA

Steering Committee

Don Tan (Chair)

IEEE Division II Director

Jianhui Wang (Co-Chair)

Southern Methodist University, USA

Liuchen Chang

IEEE PELS President

Alan Mantooth

IEEE PELS Past President

Mark McGranaghan

EPRI, USA

Frede Blaabjerg

Aalborg University, Denmark

Deepak Divan

Georgia Tech, USA

Rik de Doncker

RWTH Aachen University, Germany

C.Y. Chung

University of Saskatchewan, Canada

Dushan Boroyevich

Virginia Tech, USA

Johan Enslin

Clemson University, USA

Jian Sun

Rensselaer Polytechnic Institute, USA

Zhengming Zhao

Tsinghua University, China

Jinjun Liu

Xi'an Jiaotong University, China

Farid Katiraei

Quanta Technology, USA

Marco Liserre

Kiel University, Germany

Iqbal Husain

North Carolina State University, USA