

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

Special Session on

“Advances in Renewable Energy Systems Resilient Control”

Organized by

Mohamed Benbouzid (Mohamed.Benbouzid@univ-brest.fr)
University of Brest, Brest, France

Hafiz Ahmed (hafiz.ahmed@bangor.ac.uk)
Bangor University, UK

Hamed Badihi (hamed.badihi@nuaa.edu.cn)
Nanjing University of Aeronautics and Astronautics, Manchester, China

Call for Papers

Theme:

Resilient control is gaining more attention in recent years as it helps a renewable energy system (offshore and floating wind turbines, tidal turbine, wave energy converter, PV system) to operate with tolerated performance degradation under unanticipated faulty conditions.

In this context, this special issue aims to be an open platform to share knowledge about challenges in renewable energy systems resilient control. It particularly seeks original contributions regarding ideas, recent developments, or mature control strategies addressing both theoretical and experimental studies.

Topics of interest include, but are not limited to:

- Resilient control (passive and active structures);
- Redundant design (hardware versus analytical (software) redundancy);
- Design of fault-tolerant electric generators and converters;
- Resilient power conversion structures;
- Resilient grid-synchronization schemes;
- Practical considerations of fault-tolerant control in industrial applications.

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

Deadlines:

Full paper submission:	June 25, 2021
Paper acceptance notification:	July 30, 2021
Camera-ready paper submission:	Aug. 27, 2021

Potential contributors

10-20 Names with email and affiliation address

- Hafiz Ahmed, Bangor University, UK, hafiz.ahmed@bangor.ac.uk
- Yassine Amirat, ISEN Yncréa Ouest, France, Yassine.Amirat@isen-ouest.yncrea.fr
- Hamed Badihi, Nanjing University of Aeronautics and Astronautics, China, hamed.badihi@nuaa.edu.cn
- Mohamed Benbouzid, University of Brest, France, Mohamed.Benbouzid@univ-brest.fr
- Demba Diallo, University of Paris-Saclay, France, demba.diallo@geeps.centralesupelec.fr
- Elhoussin Elbouchikhi, ISEN Yncréa Ouest, France, Elhoussin.Elbouchikhi@isen-ouest.yncrea.fr
- Afef Fekih, University of Louisiana at Lafayette, USA, afef.fekih@louisiana.edu
- Zhiwei Gao, University of Northumbria, UK, zhiwei.gao@northumbria.ac.uk
- Antonio J. Marques Cardoso, Universidade da Beira Interior, Portugal, ajmcardoso@ieee.org
- Mahmoud Shahbazi, Durham University, UK, mahmoud.shahbazi@durham.ac.uk
- Shuangwen Sheng, National Renewable Energy Laboratory, USA, shuangwen.sheng@nrel.gov
- Silvio Simani, University of Ferrara, Italy, silvio.simani@unife.it
- Tianzhen Wang, Shanghai Maritime University, China, tzwang@shmtu.edu.cn
- Zhibin Zhou, ISEN Yncréa Ouest, France, Zhibin.Zhou@isen-ouest.yncrea.fr

Potential reviewers

10-20 Names with email and affiliation address

- Hafiz Ahmed, Bangor University, UK, hafiz.ahmed@bangor.ac.uk
- Rishad Ahmed, University of Nottingham, UK, Rishad.Ahmed@nottingham.ac.uk
- Yassine Amirat, ISEN Yncréa Ouest, France, Yassine.Amirat@isen-ouest.yncrea.fr
- Mohamed Benbouzid, University of Brest, France, Mohamed.Benbouzid@univ-brest.fr
- Samet Biricik, European University of Lefke, Turkey, sbiricik@eul.edu.tr
- Demba Diallo, University of Paris-Saclay, France, demba.diallo@geeps.centralesupelec.fr
- Elhoussin Elbouchikhi, ISEN Yncréa Ouest, France, Elhoussin.Elbouchikhi@isen-ouest.yncrea.fr
- Afef Fekih, University of Louisiana at Lafayette, USA, afef.fekih@louisiana.edu
- Zhiwei Gao, University of Northumbria, UK, zhiwei.gao@northumbria.ac.uk
- Samir Gautam, University of Technology Sydney, Australia, samir.gautam@sydney.edu.au
- Hector Rios, Instituto Tecnológico de La Laguna, Mexico, hriosb@correo.itlalaguna.edu.mx
- Shahrokh Saadate, University of Lorraine, France, shahrokh.saadate@univ-lorraine.fr
- Mohammad Shahjalal, University of Warwick, UK, Mohammad.Shahjalal@warwick.ac.uk
- Tianzhen Wang, Shanghai Maritime University, China, tzwang@shmtu.edu.cn
- Gang Yao, Shanghai Maritime University, China, gangyao@shmtu.edu.cn