



The 10<sup>th</sup> International Renewable Energy Congress  
March 26-28, 2019 Sousse - Tunisia

**Computers and Electrical Engineering**  
**Special Issue on**  
**Integration of Renewable Energy with Power Grid**  
**(Associated with IREC19: [irec-conference.com](http://irec-conference.com))**

**Overview:**

One of the main proposals of the recent Energy Strategy is to increase the contribution of the renewable energy resources in the overall energy mix. However, adding large amount of intermittent Renewable Energy power plants like solar and wind farms to the electrical grid generates challenges to keep supplying electricity to the consumers and maintaining the stability and the reliability of the electrical systems.

In fact, Renewable Energy power plants have very poor potential to regulate the gap between the generation and the demand, since they should always be operating at the maximum possible power. Therefore, in the presence of these sources the frequency of the power grid changes faster, in case of any disturbance. The zero inertia generators of PV and full converter wind turbines, makes necessary that the overall inertia of the system will be decreased, which would force the existing conventional generators to provide torque and inertia trying to overcome any contingency event , this could lead to the frequency instability problem, that must be compensated using novel Smart Grid ideas.

This Special Issue will then focus on all aspects related with the integration of Renewable Energies in existing Power Grids.

**Topics:**

The topics of interest are but not limited:

- Smart Grids
- Renewable Energy plants (Solar, Wind)
- Power Systems Stability
- Distributed energy resources
- Virtual power plants
- Distributed automation

**Submission Guidelines:**

MGE and GE will screen papers based on presentations at IREC19 in a Special Session dedicated to this Special Issue. These selection will be based on the alignment with the journal objectives, the reviewers comments, the response to questions and the potential for improvement.

Final selection of papers invited for journal submission will be done at the end of the conference and authors invited soon after the conference closes.

Selected authors will be invited to submit through CEE web submission tool a significantly extended and revised version, with more than 30% new content, new title, abstract, introduction & conclusions, updated references, and with comments received during the IREC19 presentation included.

**Schedule:**

- Call for papers published: August 2018
- Papers presented at IREC19 screened by MGE and GE: 26 March 2019
- Approval by CEE editor of invitations of papers screened: 15 April 2019
- Authors invited by MGE and GE: 20 April 2019
- Submission to CEE SI of extended and fully revised manuscripts: until 31st of May 2019
- Reviewing of submitted manuscript managed by MGE: until 1<sup>st</sup> October 2019
- Communication to selected authors in November 2019
- Online publication in CEE before February 2020

**Guest Editors:****Prof. Ahmad Harb, Managing Guest Editor (MGE)**

German Jordanian University

Amman – Jordan 11180

Tel: +962 4294244

Email: aharb48@gmail.com

**Prof. Fernando Tadeo, Guest Editor (GE)**

Universidad de Valladolid

47005 Valladolid, Spain

Tlf: +34 983 184859

skype: fernandojtadeo