



## 7TH INTERNATIONAL CONFERENCE ON RENEWABLE ENERGY RESEARCH AND APPLICATIONS ICRERA 2018

### Special Session on Power quality improvement for Renewable Energies Systems

To overcome the pollution problems caused by the consumption of fossil fuels, renewable energies are the alternatives recommended to ensure green energy. However, *low power factor (PF) and bad total harmonic distortion (THD) generated by nonlinear loads affects the equipment's connected to the renewable source.*

Renewable energies are the alternatives recommended to ensure green energy. However, *low power factor (PF) and bad total harmonic distortion (THD) generated by nonlinear loads affects the equipment's connected to the renewable source.*

The problem of harmonic pollution has lead researchers in electrical engineering to develop more effective solutions to meet the requirements for the quality of electric power. These types of devices are generally referred to: active power filters. Power factor corrector, sinus rectifiers...

Several control methods can be used to control these converters: Direct power control (DPC), Predictive power control (PPC), sliding mode and new methods based on intelligent techniques (neuronal, fuzzy logic, ....)

All innovative topics on the power quality improvement regarding any component of renewable energy system are welcome to join this special session. The session covers topics including, but not limited to:

- AC/DC converters for high power quality for renewable energy systems
- DC/DC Converters in renewable energy applications
- Active power filters (shunt, series and hybrid)
- Sinus and PWM rectifiers
- Unity Power Factor corrector UPFC
- Control techniques applied for power quality improvement
- Intelligent control (neuronal, fuzzy, GA,..) for power quality improvement

#### Organized by:

Samir Moulahoum and Nadir Kabache, University of Médéa, Algeria

Emails: [samir.moulahoum@gmail.com](mailto:samir.moulahoum@gmail.com), [moulahoum.samir@univ-medea.dz](mailto:moulahoum.samir@univ-medea.dz)  
[nadir.kabache@gmail.com](mailto:nadir.kabache@gmail.com), [kabache.nadir@univ-medea.dz](mailto:kabache.nadir@univ-medea.dz)

#### Papers submission deadline:

Full paper Submission: **June 30, 2018**  
Notification of acceptance: **August 15, 2018**  
Final submissions due: **September 15, 2018**

All the instructions for paper submission are included in the conference website. [http:// www.icrera.org](http://www.icrera.org)