



16-19 December 2018, Tunisia

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Special Session on

Renewable Energy:

Challenges and Opportunities in Africa

The world is facing a rapid growth and an increasing demand in electrical field making energy production a major concern in many countries and especially in African countries. Renewable Energy Systems, with smart solutions ranging residential systems and industrial systems are seen as important areas of the near future of energy in Africa. Different forms of renewable energy systems include, smart grid, smart homes, electronics devices, circuits and smart cities with different sources: Solar, Wind, Hydro, Geothermal, Wave and Tidal.

This special session aims to present to the international community of energy, development, applications and technology new research results in the topic of renewable energy and development strategies. Special attention will be paid to contributions focus on the ability to exploit ICT advantages in order to resolve critical issues ongoing in developing countries.

Authors are invited to present original works on the design of generic and sophisticated solution for developing countries that permits the analysis and the study on the availability of several renewal energy sources having different costs in the rural zone, avoiding the load shedding interruption and with the lowest cost.

Topics of interest include, but not limited to:

- New trends and technologies for Renewable Energy Systems
- Energy injection from renewable energy system to grid
- New trends and technologies for smart metering
- Smart metering for smart grids
- Smart metering for smart homes
- Remote wire and wireless smart metering
- Smart homes management systems
- Management of hybrid sources
- Multiple energy water supply
- Optimal energy switching control
- Concurrent use of several renewal energy sources
- Non-electrical storage solutions
- Power devices and driving circuits
- Control techniques
- Energy efficiency
- Renewable energy research and applications for industries
- RESs for electrical vehicles and components
- Machine learning studies for RE systems and applications
- Reliability and maintenance in RESs
- Renewable energy in smart cities

Authors are invited to submit full-length (4 pages) papers, in IEEE format, using the guidelines in the authors' info. Special session papers must be submitted by e-mail in PDF format to the organizers of the session. Accepted papers will be published in the electronic Conference Proceedings (CD ROM) and will be submitted to IEEE Xplore®.

Special Session Organizers:

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Important Dates:

- Research Paper Submission : **September 15, September 30, 2018**
- Notification of Acceptance: **October 7, 2018**
- Camera Ready Submission: **October 18, 2018**

