**Special Issue – Call for Papers**

Special issue on **Advanced design and analysis methods for electrical and power systems** *(S19-2)*

**Overview**

The proposal publishes original papers of permanent reference value in all fields of power and electrical systems. In spite of so many advancements in the power and energy sector over the last two decades, its survival to cater quality power with due consideration for planning, coordination, marketing, safety, stability, optimality and reliability is still believed to remain critical. Though it appears simple from the outside, the internal structure of large-scale power systems is so complex that event management and decision making requires a formidable preliminary preparation, which gets worse in the presence of uncertainties and contingencies. These aspects have attracted several researchers to carry out continued research in this field, and their valued contributions have been significantly helping the newcomers in understanding the evolutionary growth in this sector, starting from phenomena, tools, methodologies to strategies so as to ensure smooth, stable, safe, reliable and economic operation.

This proposal shall provide a new forum for dissemination of knowledge on both theoretical and applied research spreading over simulation of electric power systems with an ultimate aim to bridge the gap between these coherent disciplines of knowledge. This forum would accelerate interaction between the above bodies of knowledge with an aim to foster unified development in the next generation. All contributions to the proposal are rigorously refereed and are selected on the basis of quality and originality of the work. The proposal publishes the most significant new research papers or any other original contribution in the form of reviews and reports on new concepts in all areas pertaining to its scope and research being done in the world, thus ensuring its scientific priority and significance.

The scope covers modelling and simulation of power system elements, their design, analysis of their performance and their implementation in specific aspects typical for modern electrical power and energy systems of various size and complexity. Research focused on new technologies changing power systems and determining their performance and operation is of particular interest.

**Topics of interest include, but are not limited to, the following:**

- Storage of renewable energy
- Wearable energy storage systems
- Power transmission, distribution and generation
- Energy management systems
- Power/energy systems modeling and simulation
- Energy development
- Supervisory control
- Power system relaying/protection
- Power quality issues handling
- Modeling, simulation and control of machines
- Fault diagnosis in machines and drives
Energy management policy planning and decision making
Network restructuring and marketing strategy
Power system optimization
Fault detection and diagnosis
Power system communication
Renewable energy management
Artificial intelligence and soft computing techniques for power system

Procedures
Submissions should be original work with scientific contributions, and can neither have been published nor be under concurrent review of another journal or conference. All submitted papers should be written in English and follow the format standards of the Journal. Each paper will be subjected to the Journal’s usual peer review process. Once a manuscript has been accepted for publication, it will undergo language copyediting, typesetting, and reference validation in order to provide the highest publication quality possible.

Important Dates
Submission deadline: January 30, 2020
First author notification: May 30, 2020
Revised version: July 30, 2020
Final notification: September 30, 2020

Manuscripts should be prepared and submitted online at
http://mc.manuscriptcentral.com/simulation. The authors should state that the paper is submitted for the special issue “Advanced design and analysis methods for electrical and power systems S19-2.” Submissions should be original work with scientific contributions, and can neither have been published nor be under concurrent review of another journal or conference. All submitted papers should be written in English and follow the format standards of the Journal. Each paper will be subjected to the Journal’s usual peer review process. Once a manuscript has been accepted for publication, it will undergo language copyediting, typesetting, and reference validation in order to provide the highest publication quality possible.

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