Special Session on

INTELLIGENT SYSTEMS FOR RENEWABLE ENERGY APPLICATION

Abstract: Intelligent Techniques are increasingly being used to improve efficiency and reliability of power generation, transmission, and distribution systems. Incorporating intelligent techniques into power networks play an important role in improving the performance and reducing the operational cost of these networks. A number of intelligent techniques which include artificial neural networks, fuzzy logic, evolutionary algorithms, dimensionality reduction, feature selection, clustering, reinforcement learning and deep learning techniques have been used in power networks. Big data analytics techniques for handling power networks involving large volumes of data have been studied by researchers. Cloud computing for virtualization of intelligent power networks have also been experimented by researchers. One of the challenges is to develop intelligent systems which can evolve incrementally as new learning data becomes available. Intelligent systems can learn of their own without external intervention and without scrapping the exiting learned system. This special session aims to bring together researchers and developers from academia, industry and governmental institution to share and exchange novel ideas and experiences that address challenges in developing intelligent systems for power networks. Topics include, but are not limited to:

- Artificial Neural Networks
- Fuzzy Logic
- Evolutionary Systems
- Feature Selection
- Reinforcement Learning
- Clustering
- Machine Learning
- Support Vector Machines
- Data Mining
- Dimensionality Reduction

- Deep Learning
- Big Data
- Cloud Computing
- Statistical Learning
- Collaborative Systems
- Hybrid Systems
- Dynamic Learning Systems
- Autonomous Learning System
- Incremental Learning System

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Deadlines of the special session:
Final paper submission due   : June 30 2018
Notification of acceptance   : August 15, 2018
Revised Paper submission   : September 15, 2018
Conference Date   : October 14-17, 2018

Conference Site   : www.icrera.org
Paper Submission Site   : https://cmt3.research.microsoft.com/ICRERA2018