ICREGA'16

4TH INTERNATIONAL CONFERENCE ON RENEWABLE ENERGY: GENERATION AND APPLICATIONS

BELFORT, FRANCE

8 – 10 FEBRUARY 2016

RENEWABLE ENERGY ICREGA 2016 UTBM

Special Session on

SS05

Applications of Artificial Intelligence and Evolutionary Computation in Power Systems and Renewable Energy

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ICREGA'16 aims at gathering scientists and engineers from academia and industry to discuss the generation and applications in the broad field of Renewable Energy (RE) applications.

The advanced Application of Artificial Intelligent Approaches as well as evolutionary computational techniques were introduced recently in power systems and RE. These approaches started with introducing Fuzzy Logic (FL) in the last decades of the last century. Furthermore, Artificial Neural Network (ANN) was introduced to tackle different problems in RE. Recently the application of Adaptive Neuro-Fuzzy Inference System (ANFIS) was introduced and discussed. Meanwhile, many Evolutionary Computational techniques such as Genetic Algorithm (GA) are used in power systems to contribute to a better EMC (Electromagnetic Compatibility) performance.

This special session is dedicated to study the application of different Artificial Intelligent Approaches and/or the Evolutionary Computational techniques in RE based power systems. Topics of interest include, but are not limited to:

- AI-based controllers application in hybrid power systems.
- AI-based optimization techniques application in energy-mix systems.
- Evolutionary computation in power systems.
- Steady state/transient stability enhancement in power systems using AI-techniques.
- Energy management of multi-source systems via AI-techniques.
- Modelling of power components in near fields.
- EMC Modelling.
- Advanced optimization techniques application in RE systems (Genetic Algorithm, Particle Swarm Optimization, Bat Algorithm, Harmony Search ..etc).
- …….

For submission: send directly to the chairmen (mmustafa_98@hotmail.com) and (mohamed.bensetti@centralesupelec.fr) in addition to the online submission available:

http://icrega16.utbm.fr/paper-submission/

Accepted papers that will be presented in the conference will be published in a scopus-indexed journal.


Elsevier IF=3,448


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Important dates for Special Session:

Full Paper Submission: Postponed to October 15, 2015
Notification of acceptance: December 01, 2015
Camera ready paper submission: January 15, 2016

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