



Special Session on

**Applications of New Optimization Techniques for Renewable Energy based- Power and Transport Systems**

Chairmen: Prof. Dr. Ebtisam M. Saied, Benha University ,(Egypt)

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**SS04**

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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 Applications of Optimization techniques were introduced recently in different scopes of power systems. Applications of optimization techniques for RE based power systems: Generation and Applications were recently suggested. These techniques such as Genetic Algorithm (GA), Particle Swarm (PS), Artificial Intelligence (AI), and recently Harmony Search (HS), ... etc, were considered as Optimization Techniques used for different problems in power systems. Meanwhile, many Evolutionary Computational techniques are used with RE Generation and Applications. In Transport Systems, the weight/cost ratio of the active and passive parts of in automobiles can be optimized by using light weight construction material and Finite Elements modeling, and Optimization methods and tools.

This special session is dedicated to study the application of different optimization tools in RE based power systems. Topics of interest include, but are not limited to:

- ☐ Optimal layout of wind farm design.
- ☐ Optimal sizing and allocation for different components in RE –based power systems.
- ☐ Optimal control in RE-base hybrid power systems.
- ☐ Optimal energy management of multi-source power systems
- ☐ Dynamic energy pricing of multi-source power systems.
- ☐ Efficient lightweight, with reduced power losses in automobiles.
- ☐ .....

**For submission: send directly to the chairmen ([ebtisam.saied@yahoo.com](mailto:ebtisam.saied@yahoo.com)) and ([nadhir.labaal@utbm.fr](mailto:nadhir.labaal@utbm.fr)) in addition to the online submission available on:**

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

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



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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

