

# **The Eighth International Conference on Genetic and Evolutionary Computing (ICGEC 2014)**

<http://icgec.nit.edu.cn>

## **Special Session--Recent Advances on Evolutionary Optimization Technologies**

**Session Chair: Prof. Hui Wang**

**Email: [huiwang at whu.edu.cn](mailto:huiwang@whu.edu.cn)**

**School of Information Engineering, Nanchang Institute of Technology, China**

Optimization problems exist in various areas, such as structure design, scheduling, portfolio investment, economic dispatch, etc. In the past decades, different kinds of evolutionary optimization techniques have been designed, e.g., Simulated Annealing (SA), Evolutionary Algorithms (EAs), Differential Evolution (DE), Particle Swarm Optimization (PSO), Ant Colony Optimization (ACO), Artificial Bee Colony (ABC), etc. As the complexity of problems increases, traditional optimization algorithms may not satisfy the problem requirements and more effective algorithms are needed.

The objective of the special session is to provide a forum to disseminate and discuss new evolutionary optimization techniques. Authors are encouraged to submit both theoretical and practical articles to this special session. The topics include, but not limited to, the following:

- New evolutionary optimization techniques in:
  - Multimodal optimization problems
  - Constrained optimization problems
  - Multi-objective optimization problems
  - Dynamic and uncertain optimization problems
  - Large-scale optimization problems
  - Combinatorial optimization problems
- New evolutionary optimization techniques in:
  - Scheduling
  - Data clustering
  - Design optimization
  - Pattern recognition,
  - Robotics
  - Other applications
- Theoretical analysis of new evolutionary optimization techniques

### **Submission Guidelines**

The ICGEC 2014 organizing committee is inviting the submission of papers that present high quality, original, and not previously published work in the related areas. All submissions will be thoroughly peer-reviewed by multiple reviewers to ensure quality and unbiased comments. All papers should be submitted to through the

**[Online Submission System:](http://bit.kuas.edu.tw/paper_management/submission/login.php?conf_alias=icgec14)**

[http://bit.kuas.edu.tw/paper\\_management/submission/login.php?conf\\_alias=icgec14](http://bit.kuas.edu.tw/paper_management/submission/login.php?conf_alias=icgec14)

For more detail information, please visit the website of ICGEC 2014 (<http://icgec.nit.edu.cn/>).