

**Special Session on**  
**Bio-inspired Algorithms and their Application**  
**Call for Papers**

as a part of

The 10th International Conference on Computational Intelligence and  
Security (CIS'2014)

November 15 - 16 , 2014

Kunming , China

**Special Session Chair**

**Dr. Junfeng Chen**, Hohai University

**E-mail:** chenjf@hhuc.edu.cn

**Aim and Scope**

Bio-inspired Algorithms are a hot topic and they make use of some biological behavior to construct the problem solving processes or algorithms. Currently, a large number of the related approaches have been developed, such as Particle Swarm Optimization, Ant Colony Algorithm, Artificial Bee Colony, Bacteria Foraging Optimization, Bat Algorithm, DNA Computing, Membrane Computing, Neural Networks, and so on. However, how to design efficient and effective bio-inspired algorithms and use these algorithms to application problems are still an important issue.

This special session aims to bring researchers from academia and industry together to report the latest research work and development of Bio-inspired Algorithms, to address the broad challenges in both theory and applications, and to explore future research directions. Proposed

submissions should be original, unpublished and well-written research works either from a methodological perspective or from an application point of view. In particular, hybrid approaches and state-of-the-art reviews will specially be welcomed.

Topics of interest may cover, but are not limited to

- ***Optimization Mechanics Studies on Bio-inspired Algorithms***

- Particle Swarm Optimization

- Ant Colony Algorithm

- Artificial Bee Colony

- Bacteria Foraging Optimization

- Bat Algorithm

- DNA Computing

- Membrane Computing

- Neural Networks

- ***Theoretical Analysis for Bio-inspired Algorithms***

- Performance Measures

- Convergence

- ***Bio-inspired Algorithms for Real-world Applications***

- Cloud Computing, Pattern Recognition

- Signal & Image Processing

- Automatic Control, Intelligent Traffic

- Computational Biology

- Other Applications

**Important Data:**

Initial Submission: June 30, 2014

Notification of Acceptance: Aug 10, 2014

Final Paper Submission: Aug 30, 2014

**Paper submission:**

Prospective authors are invited to contribute high-quality papers to CIS'2014 through Online Submission System by choosing *Special Session on "Bio-inspired Algorithms and their Applications"* or mail to *chenjf@hhuc.edu.cn*. All accepted Papers will be published by the CPS, and be further submitted to the indexing companies for possible indexing, including EI and ISTP.

For more details, please visit: <http://www.cis-lab.org>

**Session Chair:**

**Dr. Junfeng Chen**

College of IOT Engineering

Hohai University

Changzhou, 213022, China

E-Mail: [chenjf@hhuc.edu.cn](mailto:chenjf@hhuc.edu.cn)