

International Conference on Computational Aspects of Social Networks - 2010

September 26-28, 2010, Taiyuan, China

Call for Paper

Recent Advances on Swarm-based Computing

Session Organizer: Prof. Zhihua Cui

Swarm intelligence is the discipline that deals with natural and artificial systems composed of many individuals that coordinate their activities using decentralized control and self-organization. In particular, the discipline focuses on the collective behavior that result from the local interactions of the individuals with each other and with their environment. Examples of systems studied by swarm intelligence are colonies of ants and termites, schools of fish, flocks of birds, herds of land animals. Some human artifacts also fall into the domain of swarm intelligence, notably some multi-robot systems, and also certain computer programs that are written to tackle optimization and data analysis problems.

The objective of this special session is to bring researchers from academia and industry together to report and review the latest progresses in this field, and to explore future directions. Relevant topics include, but are not limited to:

- *Swarm-based optimization for complex constrained optimization problems;*
- *Swarm-based optimization for multi-objective optimization problems*
- *Swarm-based optimization for dynamic environment optimization*
- *Hybrid Swarm-based optimization techniques*
- *Learning and search strategies in swarm-based optimization*
- **Applications of swarm-based optimization methodology**
- **Future direction on swarm-based computation.**

Submissions:

Papers are invited from prospective authors with interest on the related areas. All papers must be submitted electronically in PDF format only and be mailed to:

Prof. Zhihua Cui at cuiizhihua@gmail.com

Important Dates:

Deadline for Papers Submission: April 1, 2010

Notification: By May 31, 2010, authors will receive the notification of acceptance/rejection.

Deadline for revised accepted papers: July 1, 2010.

For more information please contact:

Associate Prof. Zhihua Cui

Complex System and Computational Intelligence Laboratory,

School of Computer Science and Technology,

Taiyuan University of Science and Technology,

Taiyuan, Shanxi, P.R.China, 030024

E-mail: cuizhihua@gmail.com