

## Special Session on Swarm Intelligence and Applications

### Organisers:

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### Aim and Scope:

Swarm intelligence is the collective behavior of decentralized, self-organized systems, natural or artificial. The concept is employed in work on artificial intelligence to develop a number of power algorithms, such as, Particle swarm optimization, Ant colony optimization, Artificial Bee colony optimization, Bacterial foraging optimization. Swarm intelligence algorithm has been increasingly popular in solving a wide range of real-world problems. In spite of the remarkable achievements, there are still many pending issues and intriguing challenges in this field. This special issue is soliciting papers on all aspects of bio-inspired computation and their applications. This special issue provides an opportunity to present and discuss the latest theoretical advances and real-world applications in this research field. The topics of interest include but are not limited to:

- Particle swarm optimization
- Ant colony optimization
- Bee colony algorithm
- Bacterial foraging optimization
- Bacterial colony optimization
- Artificial fish search algorithm
- Brain storm optimization
- Other swarm intelligence techniques
- Large scale global optimization
- Niching methods
- Multi-objective optimization
- Dynamic multi-objective optimization

- Constrained optimization
- Applications in business
- Applications in decision making
- Applications on financial problems
- Industrial engineering
- Portfolio optimization
- Applications in planning and operations in industrial systems, transportation systems, and other systems
- Other real-world application

**Ben Niu** received the B.S. degree from Hefei Union University, Hefei, China, in 2001, the M.S. degree from Anhui Agriculture University, Hefei, China, in 2004, and the Ph.D. Degree from Shenyang Institute of Automation of the Chinese Academy of Sciences, Shenyang, China, in 2008. He is presently serving as a Professor in Department of Management Science, Shenzhen University. His main fields of research are Evolutionary Computation, Bio-inspired Computation, Multi-objective Optimization and their applications on Job Scheduling, Portfolio Optimization, Image processing, and other real world applications.

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