

## Tentative Outline

### Special Thematic Issue for the journal Recent Advances in Computer Science and Communications

**Title of the Thematic Issue: “Progress and related results of swarm intelligence optimization algorithm”**

*Guest Editors: Prof. Zhouchao Wei; Prof. Liguoyuan*

- **Scope of the Thematic Issue:**

Swarm intelligence optimization algorithm is a stochastic optimization algorithm constructed by simulating the swarm behavior of natural biological populations. In the past 30 years, swarm intelligence optimization algorithm has been greatly developed. These algorithms are an important branch of computer science. The behavior and nonlinear dynamics of individual organisms in nature may be very simple, for example, a single ant or bird, but their collective behavior can cooperate with some simple rules through the behavior among individuals to quickly achieve the goal of finding food. This issue focuses on the latest development of swarm intelligence optimization algorithms

**Keywords:** stochastic optimization algorithm; colony optimization algorithm; chaos; particle swarm optimization algorithm; swarm intelligence optimization algorithm; nonlinear dynamics.

#### Sub-topics:

- The latest progress of swarm intelligence optimization algorithm.
- The progress of ant colony optimization algorithm.
- The progress of particle swarm optimization algorithm.
- Analysis and application of chaos particle swarm optimization algorithm.

#### Schedule:

- Thematic issue submission deadline: **September 30, 2023**

#### Contacts:

*Guest Editor Name: Dr. Zhouchao Wei*

*Affiliation: China University of Geosciences (Wuhan)*

*Email: [weizhouchao@163.com](mailto:weizhouchao@163.com) ; [weizc@cug.edu.cn](mailto:weizc@cug.edu.cn)*

*Guest Editor Name: Dr. Liguoyuan*

*Affiliation: South China Agricultural University*

*Email: [liquoy@scau.edu.cn](mailto:liquoy@scau.edu.cn)*