Swarm Intelligence with Mathematical Fuzzy Logic for Computer Science in Real-World Applications

Guest Editor:

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Message from the Guest Editor

Optimization methods based on swarm intelligence are a recent topic of research based on using bio-inspired behavior to solve complex optimization in computational intelligence.

This Special Issue invites researchers to report their latest research work on the development of new improved bio-inspired algorithms, or new applications of existing methods in the design of topologies of neural models, parameter adaptation in control systems and path planning of robots, etc., with ultimate goal of exploring future research directions.

Potential themes include but are not limited to the following:

- Theoretical methods for understanding the behavior of bio-inspired algorithms;
- Novel nature-inspired or application-inspired optimization algorithms;
- Statistical approaches for understanding the behavior of nature-inspired methods;
- Optimization of neuro-fuzzy models;
- Optimization of mathematical fuzzy logic models;
- Optimization of emergent neural models with nature-inspired algorithms;
- Mathematical fuzzy logic and intelligent and automatic control;
- Methods based on collective intelligence.

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