Evolutionary Algorithms: Innovations and Applications

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closed (15 September 2020)

Message from the Guest Editors

Dear Colleagues,

For over 50 years, evolutionary computation has been widely used to obtain effective solutions to a large variety of problems which are computationally hard, and for which ad hoc heuristics might not exist. Since the origins of evolutionary algorithms, novel nature-inspired algorithms have been presented and successfully applied to real-world problems.

This Special Issue on Evolutionary Algorithms: Innovations and Applications calls for manuscripts describing theoretical contributions, innovations, advances, and novel applications of evolutionary computation and any biologically-inspired artificial intelligence techniques. We invite researchers to contribute original research papers devoted to advance in this field. Some techniques relevant to the Special Issue include but are not limited to the following:

- Genetic algorithms;
- Evolutionary programming;
- Evolution strategies;
- Genetic programming;
- Particle swarm optimization;
- Ant colony optimization;
- Memetic algorithms;
- Cultural algorithms;
- Hybrid evolutionary algorithms;
- Agent-based evolutionary approaches;
- Novel biologically-inspired algorithms.

Special Issue