



## Evolutionary Intelligence

Editor-in-Chief: Vincenzo Loia

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### **Special Issue on**

## **NATURE INSPIRED OPTIMIZATION AND ITS APPLICATION TO ENGINEERING**

### **Overview:**

The applicability of nature inspired optimization algorithms have been a recent interest among the researchers of various research community. The main reason behind the success rate of nature inspired algorithms having the capability to solve the NP-hard problems. To resolve the real life problems, some of the earlier developed optimization techniques fails and the solutions of many real life problems have been obtained by heat and trail methods. We all are surrounded by a beautiful scenario called nature and now-a-days most of the algorithms are nature inspired algorithms, which are developed with the concepts of nature. Various algorithms developed through the inspiration of birds, insects, fish, ant, lion etc., which are the amazing creatures of nature. The nature inspired optimization techniques provide adaptive computational tools for the complex optimization problems and diversified engineering applications. Researchers have always been fascinated towards nature inspired algorithms and applied such techniques to develop some advanced intelligent algorithms for solving complex engineering problems.

This special issue serves as a forum for facilitating and enhancing information sharing among researchers, ranging from development of advanced nature inspired optimization techniques and applying existing one for solving engineering problems.

### **Topics:**

Researchers are invited to submit their original and unpublished research work in the following (but not limited to) areas:

- Swarm Intelligence Algorithms
- Physical and Chemical Inspired Algorithms
- Evolutionary Algorithms
- Hybrid Techniques
- New Algorithms inspired by nature
- Intelligent Techniques

- Population based Algorithms
- Review and comparative studies of nature inspired Algorithms
- Bio-inspired Algorithms
- Other Optimizations

**The above algorithms may be applied to solve the following problems :**

- Classification
- Clustering
- Prediction
- Function Approximation
- Cloud Computing
- Software Engineering
- Intrusion Detection Problems
- Electrical & Power Control
- Scheduling
- Channel Allocation
- Forecasting

**Submission guidelines:**

Research articles must not have been published or submitted for publication elsewhere. All articles will be peer reviewed and accepted based on quality, originality, novelty, and relevance to the special issue theme. Before submission authors should carefully read the journal's Author Guidelines which are located at <https://www.editorialmanager.com/evin/default.aspx>

Please select the special issue “**NATURE INSPIRED OPTIMIZATION AND ITS APPLICATION TO ENGINEERING**” for your submission. All submissions will undergo initial screening by the guest editors for fit to the theme of the Special Issue and prospects for successfully negotiating the review process.

**Schedule:**

Submission of papers: 31st January, 2018

Notification of review results: 31st March, 2019

Submission of revised papers: 30th April, 2019

Notification of review result (if required): 31st May, 2019

Submission of revised papers (if required): 30th June, 2019

Notification of final review results: 10th June, 2019

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