Special Thematic Issue for Recent Advances in Electrical & Electronics Engineering

Guest Editors

Dr. Gaurav Dhiman
*(**Lead guest editor**)*
Assistant Professor, Government Bikram College of Commerce, Patiala, India
Email:gdhiman0001@gmail.com

Dr. Prof. Ali Riza Yildiz
Professor of Automotive Engineering at Uludağ University, Turkey
Email: profaliryildiz@gmail.com

Dr. Sen Guo
Associate Professor
North China Electric Power University
China
Email: guosen@ncepu.edu.cn

Nature-inspired Algorithms for Real-life Complex Engineering Problems

ABSTRACTED & INDEXED

Scopus, EI/Compendex, ChemWeb, Google Scholar, Genamics JournalSeek, MediaFinder®-Standard Periodical Directory, PubsHub, J-Gate, CNKI Scholar, Suweco CZ, TOC Premier, EBSCO, Ulrich's Periodicals Directory

DESCRIPTION

Techniques of optimization have proved their utility in solving the NP-hard variou problems. Nature-inspired techniques play an important role in addressing the various issues related to decision making. With the enhancement of various emerging technologies such as machine learning, deep-learning, image processing, big data, cloud computing, and so forth, methods inspired by nature have become a subject of current interest. Neural computing problems have become increasingly new challenges for researchers and scientists working in the field of intelligent computation over the last few decades. Many algorithms inspired by nature have been suggested for solving these problems. The main objective of this special issue is to bring in new and already current problems to continue the convergence of concepts with computational algorithms influenced by nature. Authors are invited to submit full papers on recent advances in the development and application of nature-inspired computing with new horizons for multiple criteria decision making which may be pathfinders for showcase development that have potential for blending with nature-inspired algorithms theme.

OBJECTIVE

Researchers are expected to contribute their review/research articles in the proposed domain which includes various research topics such as Image processing, Big data, Data Mining, Cloud Computing, Machine Learning for parameter tuning, Time series forecasting using nature-inspired metaheuristics. The issue will also explore and discuss emerging multi-disciplinary themes to provide a platform in the field of science and engineering.

TOPICS INCLUDE BUT ARE NOT LIMITED TO

The topics relevant to the special issue include (but not limited to):

- Nature-inspired Optimization problems (Large scale optimization problems, Multi-modal optimization problems, Multi-objective optimization problems etc.).
- Nature-inspired Optimization problems for neural computing.
- Nature-inspired Hybrid neural computing methods.
- Nature-inspired Hybrid optimization algorithms.
- Nature-inspired Optimization for pattern recognition and machine vision.
- Nature-inspired Optimization for combinatorial optimization problems.
- Nature-inspired Optimization for data mining.
- Nature-inspired Optimization for intelligent vehicle communication.
- Nature-inspired Optimization for machine learning and deep learning.
- Nature-inspired Optimization for Real world applications.
- Nature-inspired Optimization for Engineering design problems.
- Nature-inspired Optimization for Quadratic assignment problems.
- Nature-inspired Optimization for robotics.
- Nature-inspired Optimization for big data analytics.

Expected Authors: Academicians, Researchers, Students and Industry Professionals
Expected Number of submissions: 20+
Expected Number of Final Approved Papers: 8-10

Schedule:

Manuscript submission deadline: April 1, 2020

Peer Review Due: May 15, 2020

Revision Due: June 15, 2020

Notification of Acceptance by the Guest Editor: July 15, 2020

Final Manuscripts Due: Aug 15, 2020

There is no publication fee for publication in the special issue