Call for Papers

WSEAS TRANSACTIONS ON SYSTEMS

Special Issue on Recent advances in Nature Inspired algorithms and their applications

I. Aim and Scope
Nature-Inspired Algorithms have been gaining much popularity in recent years due to the fact that many real-world optimization problems have become increasingly large, complex and dynamic. Nature inspired algorithms model natural phenomena/idea to solve problems. Example programs involve evolutionary computation, swarm intelligence bacterial foraging, cultural algorithms, neural networks, and molecular computing is becoming increasingly important in face of the complexity of today’s demanding applications.

The main aim of this issue is to bring together researchers, engineers and practitioners to get through the latest achievements and innovations in the multiple areas of Nature Inspired Algorithms to discuss thought-provoking developments and challenges, to consider potential future directions.

II. Topics Covered

- Nature-Inspired Algorithms including: Simulated Annealing, Membrane computing, Memetic computing, DNA and molecular computing, Biological computing, Genetic Algorithms, Differential Evolution, Ant and Bee Algorithms, Cuckoo Search, Particle Swarm, other algorithms.
- Applications of Nature Inspired Algorithms to:
  - Optimization Problems
  - Multi Objective Optimization
  - Parameter Tuning and Parameter Control
  - Optimization Problems
  - Optimization-based systems design
- other relevant topics.

III. Important Dates
May 30, 2015: Submission deadline
July 31, 2015: Notification of the first-round review
September 15, 2015: Revised submission due
November, 2015: Publication of the accepted papers

IV. Submission
Manuscripts should be prepared according to the formatting instructions of available at WSEAS Transactions on Systems at http://wseas.org/wseas/cms.ation?id=4067. Manuscripts submitted to the Special Issue on Recent advances in Nature Inspired algorithms and their applications are to be submitted following the standard submission process and notifying the Guest Editors as well. All submitted manuscripts will be reviewed using the standard procedure that is followed for regular submissions.

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