

## **Call for Papers: *Intelligent Decision Technologies***

### **Special Issue: Optimization for Engineering, Science and Technology**

Submission Due Date: 31st December 2015

#### **Guest Editors**

Pandian Vasant, Universiti Teknologi Petronas, Malaysia

Junzo Watada, Waseda University, Japan

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#### **Introduction**

Any modern engineering, science and technological problem inevitably faces uncertainty in various aspects such as natural disaster, chaotic decision making, human resource availability, processing capability and constraints and limitations imposed by an authority. This type of problem has to be solved by a methodology which considers uncertain information. As the analyst develops an acceptable solution, the decision maker and the implementer need to coordinate with the analyst for a successful, strategic and holistic decision for final implementation. Such complex problems in an imperfect world can be solved by robust and flexible optimization methodologies.

#### **Objective**

The objective of the special issue is to enlighten researchers working on the development of innovative and novel techniques and methodologies to improve the performance of current advanced algorithms related to real world practical problems in the area of novel and modern optimization and its application in Engineering, Science and Technology.

#### **Recommended Topics and Methods**

This Special Issue solicits contributions dealing with any aspect of optimization and its application in Engineering, Science and Technology. Typical, but not exclusive, topics of interest are:

Ant colony optimization, Fuzzy logic, Genetic algorithm, Genetic programming, Variable neighborhood search, support vector machine, Cuckoo Search algorithm, Simulated annealing, Bat algorithm, Differential evolution, Teaching & Learning Based optimization, Bacteria foraging, Fire fly, Artificial bee colony, Chaotic algorithm, Artificial immune system, Harmonic search algorithm, Biographical based optimization, NSGA, Tabu search, Artificial fish swarm, Particle swarm optimization, Memory based optimization, Artificial neural network, Gravitational search algorithm, Combinatorial optimization, etc.

### **Applications**

Articles should include the impact on decision making in such areas as: Multi-criteria decision making, Intelligent computing, Product design, Flexible manufacturing, Financial engineering, Supply chain management, Knowledge management, Software engineering, Production planning, Scheduling, Faults detection, Visualizations, Spray coating, Oxidation, Renewable energy, Enhanced oil recovery, Hydrocarbon prediction, Electromagnetic field, Finite element, Controls, Vehicles dynamics, Turbines, Robotics, Power electronics, Organic synthetic chemistry, Green sustainable chemistry, Hybrid materials, Ultrasound, Microwave, Fluid mechanics, Reservoir engineering, etc.

### **Submission Procedure**

Researchers and practitioners are invited to submit papers for this special theme issue on Optimization for Engineering, Science and Technology on or before 31<sup>st</sup> December 2015. All submissions must be original and may not be under review by another publication. Note that the publisher will format and typeset accepted articles, but will not format references. References need to follow the journal style as indicated on the website.

**INTERESTED AUTHORS SHOULD FOLLOW THE JOURNAL'S GUIDELINES FOR ELECTRONIC MANUSCRIPT SUBMISSIONS at**

<http://content.iospress.com/journals/intelligent-decision-technologies/>

**and select 'Submissions' at the top right. You will be directed to use the online submission system. YOU MUST PUT 'SPECIAL ISSUE ON OPTIMIZATION' IN THE TITLE. This can be removed when final publication files are submitted.**

### **Important Dates**

Submission Due Date: 31st December 2015

Acceptance / rejection notification: March 25, 2016

Notification final acceptance: May 25, 2016

All inquiries should be directed to the attention of:

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