



## Journal of Heuristics

### **Call for Papers:**

#### Special issue on

### "Heuristics for Reliable and Efficient Wireless Sensor Networks Deployments"

Journal of Heuristics. Springer, ISSN: 1381-1231. Editor-in-Chief: Manuel Laguna.

Impact factor (2012): **1.471 (Q1, COMPUTER SCIENCE, THEORY & METHODS)**.

#### **Aims and Scope:**

Wireless Sensor Networks are nowadays an extended engineering technology for many markets due to the great amount of their possibilities in collecting data from complex environments and processing them for different purposes. Nevertheless, this interest is not enough to apply this kind of networks as trustworthy solution for many real-world environments, such as industrial processes and critical infrastructures, where high reliability is required, together with other related key aspects as energy, security and efficiency. Many companies could overcome their reluctances if economic, reliable and easily deployed solutions are provided in this field. In this scenario, the heuristics and computational intelligence play an important role to solve many involved optimization problems, doing necessary the research on advanced solutions that result in a successful product. In this sense, there are many challenges, trends and open possibilities in this area that deserve to be known. In this special issue, we seek original, high quality articles, clearly focused on theoretical or practical aspects of the heuristics and mathematical optimization methods for obtaining reliable and efficient wireless sensor networks, including but not limited to the topics shown below.

#### **Topics of Interest:**

The topics related to heuristics for reliable and efficient Wireless Sensor Networks deployments that are relevant to this special issue include but are not limited to:

- *Energy minimization aspects: network lifetime and power savings.*
- *Efficient networks deployments.*
- *Heuristics and computational intelligence applied for solving optimization problems.*
- *Multiobjective optimization problems.*
- *Fault tolerance and quality of service.*
- *Robust routing algorithms, network protocols and operating systems.*
- *Security and privacy aspects of the communications.*
- *Microprocessors, circuits, and embedded applications.*
- *Application cases, user studies and experiences.*

Papers must be tailored to the problem of the wireless sensor networks and explicitly consider heuristics and mathematical optimization methods. The editors maintain the right to reject papers they deem to be out of scope of this special issue. Only originally unpublished contributions and invited articles will be considered for the issue. Authors should submit their manuscripts through Editorial Manager <http://www.editorialmanager.com/heur/>, selecting "SI - HREWSN" as the article type.

#### **Important Dates**

Submission deadline: December 31, 2013  
Acceptation notification: April 1st, 2014  
Final Papers: June 1st, 2014

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