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Advanced Algorithms for Wireless Sensor Networks

Guest Editor:

Prof. Dr. Chang Wu Yu
Department of Computer Science and Information Engineering, Chung Hua University, Hsinchu City 300, Taiwan

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Message from the Guest Editor

Wireless sensor networks (WSNs) raise a number of interesting and undiscovered algorithmic issues, but traditional techniques are not sufficient to solve these problems in the right way. This is specifically due to constrained energy and computation capability, nondeterministic sensor failures, channel impairments, node mobility, hostile and distrusted environments, and even external attackers in WSNs. In all these issues, WSNs exhibit substantial vulnerability when compared to other networks. It is challenging to design robust and long-lived WSNs by devising novel algorithms or developing new theories whilst introducing minimal communication overhead and energy consumption. However, the algorithmic and theoretical issues in WSNs were not fully explored. The main focus of this special issue is devoted to deeper understanding of the algorithms and theories which are developed to build up WSNs.

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Editor-in-Chief

Prof. Dr. Frank Werner
Faculty of Mathematics, Otto-von-Guericke-University, P.O. Box 4120, D-39016 Magdeburg, Germany

Message from the Editor-in-Chief

Algorithms are the very core of Computer Science. The whole area has been considered from quite different perspectives, having led to the development of many sub-communities: Complexity theory (limitations), approximation or parameterized algorithms (types of problems), geometric algorithms (subject area), metaheuristics, algorithm engineering, medical imaging (applications), indicates the range of perspectives. Our journal welcomes submissions written from any of these perspectives, so that it may become a forum for exchange of ideas between the corresponding scientific subcommunities.

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Algorithms Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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mdpi.com/journal/algorithms
algorithms@mdpi.com
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