Algorithms in Wireless and Mobile Networks

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Message from the Guest Editors

Due to recent advances in wireless communication and networking technologies, a surge of ubiquitous infrastructure and high-performance wireless networks have been observed, leading to a wide variety of applications ranging from environment monitoring to health care, as well as from critical infrastructure protection to wireless security.

The incorporation of AI into the future wireless network architecture has become a technological trend in research and exploration, contributing to the future wireless network transmission framework. Moreover, there is a need for further research discussing AI combined with communication network channel modelling, network operation and maintenance, network security audits, and other fields.

The focus of this Special Issue is (i) models and algorithmic approaches to better understand the capabilities and limitations of modern wireless networks and (ii) the application of intelligent algorithms in next-generation wireless networks.

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Special Issue

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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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