



## Algorithms in 5G Wireless Communication

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### Message from the Guest Editors

The recent trends in the development of wireless communications systems demonstrate the continuously increasing impact of softwarization and effective algorithmic design on the resultant system performance. It is envisaged that future wireless communication systems will face unprecedented challenges related to the enormous diversity of the prospective applications, types of devices, system requirements, types of environments, etc.

This Special Issue covers the topics related to new algorithmic design for 5G networks and beyond, such as:

- Algorithms in SDN, NFV, SDR, CR
- Machine Learning and Artificial Intelligence for 5G
- Big data processing for wireless communications and networking
- Optimization procedures for wireless communications
- Algorithms for massive communication
- Algorithms for high mobility scenarios, including V2X and U2X scenarios
- Distributed, centralized, and hybrid architecture design for future wireless communications
- Advanced signal processing algorithms
- Algorithms for self-organizing networks
- Advanced radio resource management for 5G
- Cooperation algorithms for wireless systems
- Distributed computing (edge, fog and cloud)



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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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