applied sciences

IMPACT FACTOR 2.7

CITESCORE 4.5

an Open Access Journal by MDPI

Wireless and Mobile Communication Networks: Latest Advances and Prospects

Guest Editors:

Dr. Ke Wang
School of Information and Communication Engineering, Beijing University of Posts and Telecommunications, Beijing 100876, China

Prof. Dr. Wenjin Wang
National Mobile Communications Research Laboratory, Southeast University, Nanjing 210096, China

Prof. Dr. Xuehua Li
Key Laboratory of Modern Measurement and Control Technology, Ministry of Education, Beijing Information Science and Technology University, Beijing 100101, China

Deadline for manuscript submissions:
closed (31 January 2024)

Message from the Guest Editors

With the great commercial success of 5G networks, the focus of the research community is on future wireless and mobile communication networks. Software-defined networks have proven their high efficiency in core network implementations; however, their reliance on physical layers hinders the application of artificial intelligence and machine learning. Higher frequency bands are essential in coping with high traffic-volume demands; new antenna technologies such as fluid antenna or phased-array antenna and related beamforming algorithms are still not yet capable of supporting such frequencies. We are also witnessing the growth of emerging unmanned aerial vehicles (UAVs) and low-earth orbit (LEO) satellite constellations, which create novel challenges in 3D network design and resource allocation. Furthermore, ensuring the end-to-end security with high energy efficiency in the heterogenous mobile networks calls for deeper exploration.

This Special Issue aims to collect high-quality research papers and review articles on the latest advances and prospects in wireless and mobile communication networks, including 5G and B5G, and miniaturization platform integration.

mdpi.com/si/160784

Special Issue

applied sciences

IMPACT FACTOR 2.7

CITESCORE 4.5

an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.
High Visibility: indexed within Scopus, SCIE (Web of Science), Inspec, CAPlus / SciFinder, and other databases.
Journal Rank: JCR - Q2 (*Engineering, Multidisciplinary*) / CiteScore - Q1 (*General Engineering*)

Contact Us

Applied Sciences Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/applsci
applsci@mdpi.com
𝕏@Applsci