Special Issue

Fifth-Generation (5G)/5G-Advanced Networks: Technologies, Architectures and Applications

Message from the Guest Editors

This Special Issue aims to explore the latest advancements in 5G technologies. A key focus will also be on the integration of AI to optimize 5G/5G-Advanced networks, enhancing network management, and enabling intelligent decision-making for applications such as predictive maintenance, dynamic resource allocation, and network security. This Special Issue will publish high-quality, original research papers in the following overlapping fields:

- 5G/5G-Advanced network design, optimization, and architectures;
- Artificial intelligence, machine learning, and deep learning in 5G/5G-Advanced networks;
- AI-driven edge computing and IoT integration;
- Cloud, edge, and fog computing for 5G/5G-Advanced;
- Security, privacy, and trust in 5G/5G-Advanced networks;
- Energy-efficient and green 5G/5G-Advanced technologies;
- Trustworthiness of telecom AI and implications of regulations on telecom domain;
- Transparency (explainable AI) and Safety (Safe AI);
- Advanced use cases such as transportation, healthcare, and public safety;
- Industrial experience and/or practical examples using 5G/5G-Advanced;
- Neuromorphic computing and quantum computing for next-generation networks.

Guest Editors

Dr. Elena Fersman

1. Ericsson Silicon Valley, Santa Clara, CA 95054, USA
2. KTH Royal Institute of Technology, Industrial Engineering and Management, 114 28 Stockholm, Sweden

Dr. Rafia Inam

Ericsson Research, Ericsson AB, Torshamnsgatan 21, 164 83 Stockholm, Sweden

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Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
applsci@mdpi.com

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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.

Editor-in-Chief

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

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