

## 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.

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### Deadline for manuscript submissions



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## About the Journal

### 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.

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### Editor-in-Chief

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