

## Special Issue

# Applications of AI for 5G and Beyond Communications: Network Management, Operation, and Automation

### Message from the Guest Editors

This special issue calls for high-quality unpublished research works on recent advances related to the application of AI for heterogeneous wireless communication systems. Potential topics include, but are not limited to the following:

- Theoretical approaches and methodologies for AI-enabled communication systems
- AI and ML for network management
- AI-enabled networks design and architecture
- AI and ML in wireless communications and networking
- Radio resource management
- AI-enabled SDN and NFV
- AI-enabled dynamic network slicing
- AI-enabled security methods for IoT
- AI-based network intelligence for IoT
- Sequential analysis and reinforcement learning for wireless communications
- AI-enabled ultra-dense network
- Big data enabled wireless networking
- AI-enabled network pricing models
- Graph computing for communication networks
- Signal processing over networks and graphs
- Energy efficient network operation

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### Guest Editors

Prof. Dr. Yeong Min Jang

Dr. Mostafa Zaman Chowdhury

Prof. Dr. Takeo Fujii

Prof. Dr. Juan-Carlos Cano

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### Deadline for manuscript submissions

closed (15 September 2020)



## Applied Sciences

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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

Prof. Dr. Giulio Nicola Cerullo  
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