

## Special Issue

# Recent Challenges and Solutions in Wireless Communication Engineering

### Message from the Guest Editors

This Special Issue seeks cutting-edge, high-quality research papers that describe practical and theoretical solutions to wireless communication systems and network security. Potential topics include but are not limited to:

- Internet of things and Industrial IoT;
- Attack detection and mitigation in IoT system;
- UWB patch antenna design and analysis;
- Energy efficiency optimization in wireless sensors networks;
- Dynamic spectrum allocation and resource optimization;
- Wireless access technologies;
- Interference management for 5G and future wireless technologies;
- Security enhancement for future wireless technologies;
- Dependability and resilience in wireless networks;
- Multiuser and mm-wave MIMO;
- AI for wireless sensing;
- Machine learning algorithms and implementation over wireless communication networks;
- AI for physical layer security;
- AI and machine learning for congestion control;
- Intelligent network visualization and software defined networking;
- Semantic communications for the metaverse;
- Integrated sensing and communication for 6G.



## 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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