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Trends and Challenges in Communication Networks

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Message from the Guest Editors

This Special Issue aims to explore current challenges and advancements in communication network technologies and applications. The topics of interest include, but are not limited to, the following:

Network Scalability: Novel approaches to efficiently handling the growing volume of data traffic.

Emerging Technologies: Research on next-generation wireless technologies (5G and beyond), Network Function Virtualization, Software-Defined Networking and innetwork computing to address network challenges and enable new applications.

Network Modeling and Analysis: Development of new theoretical frameworks and techniques for modeling network behavior, performance evaluation or capacity planning.

Testing and Verification of Applications and Services: Innovative methodologies and tools for testing performance, realiability and security of communication network applications and services.

Network Applications and Services: Exploration of network slicing for diverse applications, the role of Artificial Intelligence and Machine Learning in network optimization and management and the advancement of network security protocols to combat evolving cyber threats.











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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

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