5G and Beyond Fiber-Wireless Network Communications

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Deadline for manuscript submissions:
closed (30 April 2022)

Message from the Guest Editors

Dear Colleagues,

To unleash the full potential of 5G communications and to prepare the ground for beyond 5G (B5G) communications, the joint study and optimization of the optical and wireless network domains is expected to play a key role. To support the user-centric communication paradigm introduced with 5G, enhanced and computationally efficient artificial intelligence (AI)/machine learning (ML) algorithms also need to be developed to predict user behavior and demands and, consequently, dynamically adapt the communication path, even proactively, in real-time.

For this Special Issue, we invite submissions exploring converged optical and wireless B5G network functionalities in a variety of topics. Contributions can focus on techniques and resource allocation algorithms, design, analysis, and management of virtualized networks, security and resilience, end-to-end network performance optimization, or cross-layer optimization strategies for B5G networks. Survey papers and reviews are also welcomed.

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Special Issue

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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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