

Special Issue

Photonic Technology in 5G

Message from the Guest Editors

On the verge of the 5G era for mobile networks, a wide variety of demanding applications and use case scenarios have been setting especially demanding end-user requirements, placing a tremendous load also on the fronthaul network. Photonics technology is expected to play a crucial role in the deployment and success of future 5G networks, providing high-speed data transmission and switching systems, thus satisfying the speed and the low-latency requirement of 5G networks.

The main purpose of this Special Issue “Photonic Technology in 5G” is to cover all topics of the latest research and developments in the field of photonics and its implementation in 5G networks. This is an open call for papers providing research contributions to the following areas:

- 5G Network Architecture
- Digital/Analog Radio Over Fiber (RoF) Systems
- III/V laser and Silicon Photonic Transceivers
- Integrated Microwave Photonics Technology
- Optical Interfaces for Wireless and Transport Solutions
- Fast Optical Gateways and Hybrid Circuit/Packet switch engines Enabling Optical Communication Technologies
- 5G Standardization
- Radio-Optical Digital Signal Processing

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Deadline for manuscript submissions

closed (30 July 2020)



Applied Sciences

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Impact Factor 2.5
CiteScore 5.5



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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.

Editor-in-Chief

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