



Photonic Technology in 5G

Guest Editors:

Prof. Dr. Amalia Miliou

Department of Informatics,
Aristotle University of
Thessaloniki, Thessaloniki 54453,
Greece

amiliou@csd.auth.gr

Dr. Christos Vagionas

Department of Informatics,
Aristotle University of
Thessaloniki, Thessaloniki 54453,
Greece

chvagion@csd.auth.gr

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Message from the Guest Editors

Dear Colleagues,

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

