



**Announcement of an *IEEE/OSA*
Journal of Lightwave Technology Special Issue on:
5G Related Photonics Technologies**

Submission Deadline: 1 May 2018
Publication: June 2019

5G is the next generation wireless network technology that is expected to significantly increase data speeds, produce ultra-low latency times, support the connection of many more devices, and increase energy efficiency of the network elements. It is obvious that for 5G to be successfully implemented it will need significant contributions and innovations from the photonics technology community. Whether it be creating the appropriate transport infrastructure with the necessary high capacity, the relevant x-hauling architectures or even utilizing microwave photonics devices and topologies to distribute the wireless signals. There is no doubt photonic technology will play an important role in 5G. This special issue of the *Journal of Lightwave Technology* covers all topics in the field of photonics related to the implementation of 5G.

The scope includes:

- 5G network architecture
- 5G standardization,
- Mm-wave and THz wireless
- Digital/analog radio over fiber (RoF) systems
- Integrated microwave photonics technology
- Radio-optical digital signal processing such as MIMO
- Channel equalization
- Multi-RAT networking and related research fields

This will be an open call for papers, in addition to paper solicitation at the 2017 Summer Topicals Meeting which took place 10-12 July 2017. The meeting included workshops on hot topics in this area.

On behalf of the Guest Editors and the Editor-in-Chief, we encourage you to submit your paper to the journal. Typically, these papers 18 pages for the tutorial reviews, 10 pages for invited papers, and 7 pages for the regular papers. Mandatory page charges of \$260USD per page are enforced in excess of 7 pages. This paper would appear in an upcoming JLT special issue titled "5G 2019" Target May/June 2019 May issue with accepted papers posted online within 1 week of author final file upload.

Guest Editors: **Dr Rod Waterhouse**, (Pharad LLC, USA); **Professor Thas Nirmalathas**, (The University of Melbourne, Australia); **Professor A. Stöhr**, (Universität Duisberg-Essen, Germany)

Submissions by website only: <http://mc.manuscriptcentral.com/jlt-ieee>

Manuscript Type: "5G 2019"

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