### Special Issue

## Novel Advances and Applications of Signal Processing Techniques for Optical Communications

Message from the Guest Editor

Thanks to the (r)evolution in optical communication systems, many signal processing techniques are being developed for new, energy-efficient, high-capacity, fully transparent all-optical and hybrid optical-wireless networks for novel telecom and datacom applications.

The signal processing techniques developed in the field of Optical Communications are not only aimed at systems but also at networks. Application areas include but are not limited to: possibilities for increasing the data throughput, for effective utilization of available bandwidth and wavelength resources; advanced techniques of computing power, spectral and energy efficiency, power and link budget optimization, network synchronization, multi-carrier modulations, multiple access and relay-assisted transmissions; advances to meet system capacity and security requirements of the future IoT applications, etc.

In this Special Issue, we invite submissions exploring the development of novel advances, applications, and new trends on signal processing techniques in optical and/or electrical domains for optical fiber and/or wireless communications. Survey papers and reviews are also welcomed.

#### **Guest Editor**

Dr. Rastislav Róka

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#### Deadline for manuscript submissions

closed (15 November 2021)



# Applied Sciences

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mdpi.com/si/87955

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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.

#### Editor-in-Chief

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