



## Photonic Technologies and Systems Enabling 6G

Guest Editors:

**Dr. Fabio Cavaliere**

Ericsson Research, Via Moruzzi 1  
c/o CNR, Ericsson, 56124 Pisa,  
Italy

**Prof. Dr. Luca Potì**

Consorzio Nazionale  
Interuniversitario per le  
Telecomunicazioni - CNIT, Via  
Moruzzi 1, 56124 Pisa, Italy

Deadline for manuscript  
submissions:

**closed (28 February 2023)**

### Message from the Guest Editors

Dear Colleagues,

The next 6G mobile generation will make extensive use of photonic technologies, both in the traditional application domains of these technologies, such as optical transport networks and data center interconnects, and in the opening of new application domains, such as photonic generation and processing of radio signals. 6G is expected to use a wider variety of technologies compared to previous mobile generations. Examples are free space optics (FSO), including satellite communications, and photonics-based sensors such as Lidars.

In this Special Issue, we invite submissions exploring the development of photonic technology and systems enabling the next 6G mobile generation. Contributions can focus on systems and devices for radio frequency generation and distribution, optical beamforming, co-packaged optics, radio over fiber, power over fiber, lidars, free space optics, satellite optical communications, and high-speed low-latency fronthaul networks. Survey papers and reviews are also welcomed.

Dr. Fabio Cavaliere  
Prof. Dr. Luca Potì  
Guest Editors





an Open Access Journal by MDPI

## Editor-in-Chief

**Prof. Dr. Giulio Nicola Cerullo**  
Dipartimento di Fisica,  
Politecnico di Milano, Piazza L.  
da Vinci 32, 20133 Milano, Italy

## 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.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), Inspec, CAPlus / SciFinder, and other databases.

**Journal Rank:** JCR - Q1 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

## Contact Us

---

*Applied Sciences* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/applsci](http://mdpi.com/journal/applsci)  
[applsci@mdpi.com](mailto:applsci@mdpi.com)  
[X@Applsci](#)