

## Special Issue

# Advances in Optical Fiber Communications

### Message from the Guest Editor

This Special Issue will involve original results on novel optical communication system configurations that can help the transition toward higher data rates, even at very short transmission distances below 1 km. Topics of interest for this Special Issue include but are not limited to the following research areas:

- Coherent optical communication employing advanced modulation format for long-haul and short reach communications;
- Direct-detection-based long-haul and short-reach optical communication systems;
- Novel detection schemes;
- Multiband (C+L) optical networks;
- Network security and quality of services for optical communication;
- Novel optical/photonics components and silicon photonic integration;
- New modulation and coding schemes and digital signal processing;
- Multi-mode/few-mode fiber communication and/or equalization techniques;
- Optical metro/access networks;
- Data center interconnects.

---

### Guest Editor

Prof. Giuseppe Rizzelli

Department of Electronics and Telecommunications, Polytechnic of Turin, 10129 Turin, Italy

---

### Deadline for manuscript submissions

closed (28 February 2022)



## Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/si/68821](https://mdpi.com/si/68821)

*Applied Sciences*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[appls@mdpi.com](mailto:appls@mdpi.com)

[mdpi.com/journal/](https://mdpi.com/journal/)

[appls](https://appls.mdpi.com)





# Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/journal/  
applsci](https://mdpi.com/journal/applsci)



## 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

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

---

### 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), Ei Compendex, Inspec, CAPlus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering )