



## Optical Communication and Information Technology

Guest Editors:

**Prof. Dr. Mario Martinelli**

Department of Electronics,  
Information and Bioengineering,  
Politecnico di Milano, 20133  
Milano, Italy

**Prof. Dr. Pierpaolo Boffi**

Department of Electronics,  
Information and Bioengineering,  
Politecnico di Milano via Ponzio,  
34/5, 20133 Milan, Italy

Deadline for manuscript  
submissions:

**closed (10 September 2023)**

### Message from the Guest Editors

This Special Issue will address the emerging and innovative solutions proposed for the next generation of optical communications, information technologies, and optical fiber sensors, for example:

- Ultra-high speed data rate per carrier, ultra-wide band (S, C and L band) and complex modulation formats, shaping and coding to face the continuous bandwidth increasing in transport, access and datacenter networks;
- New few-mode and multi-core fibers to exploit space-division multiplexing and hollow core fibers for innovative communication scenarios;
- Future PON solutions to range from FTTH, to enterprise infrastructures, IoT, and Industry 4.0;
- High-capacity flexible metropolitan area networks providing low latency and high reliability;
- Fixed and mobile convergence to support mobile transport in terms of backbone, backhaul, and fronthaul;
- Data center interconnections assuring ultrahigh throughput connectivity;
- Optical wireless, free space optics, and Li-WI allowing fiber to the desktop, and fiber to the machine;
- Low-cost photonic information technologies providing smart transceivers, simplified coherent detection, and low power consumption digital signal processing;





# entropy



an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Kevin H. Knuth

Department of Physics, University  
at Albany, 1400 Washington  
Avenue, Albany, NY 12222, USA

## Message from the Editor-in-Chief

The concept of entropy is traditionally a quantity in physics that has to do with temperature. However, it is now clear that entropy is deeply related to information theory and the process of inference. As such, entropic techniques have found broad application in the sciences.

*Entropy* is an online open access journal providing an advanced forum for the development and/or application of entropic and information-theoretic studies in a wide variety of applications. *Entropy* is inviting innovative and insightful contributions. Please consider *Entropy* as an exceptional home for your manuscript.

## 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](#), [PubMed](#), [PMC](#), [Astrophysics Data System](#), and [other databases](#).

**Journal Rank:** JCR - Q2 (*Physics, Multidisciplinary*) / CiteScore - Q1 (*Mathematical Physics*)

## Contact Us

---

Entropy Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

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

[mdpi.com/journal/entropy](http://mdpi.com/journal/entropy)  
[entropy@mdpi.com](mailto:entropy@mdpi.com)  
[X@Entropy\\_MDPI](#)