



## Optical Network Automation

Guest Editor:

**Dr. Ramon Aparicio-Pardo**

CNRS I3S laboratory, Université  
Côte d'Azur, Nice, France

Deadline for manuscript  
submissions:

**closed (20 September 2022)**

### Message from the Guest Editor

Next-generation optical transport networks will face more and more demanding requirements, not only from the point of view of higher traffic volumes but mainly from the perspective of the very nature of these traffic volumes. The evolution of internet usage (e.g., emergence of cloud services, growth of mobile communications, rise of HDTV over the internet) is yielding to a complexified traffic with an increasing access diversity and augmented traffic dynamicity.

As a consequence, higher levels of network automation will be necessary to cope with these challenges. The scope of this Special Issue covers any kind of work helping to promote this shift from reactive autonomous to actual adaptive networks which monitor networks, extract knowledge from the monitoring data, and change hardware infrastructure and software control in accordance with this knowledge.

- Network automation
- Autonomous networks
- Network orchestration, management, and control
- Network monitoring and telemetry
- Artificial intelligence and machine learning applied to networks
- Software-defined networking
- Network function virtualization





*sensors*



an Open Access Journal by MDPI

## Editor-in-Chief

### **Prof. Dr. Vittorio M. N. Passaro**

Dipartimento di Ingegneria  
Elettrica e dell'Informazione  
(Department of Electrical and  
Information Engineering),  
Politecnico di Bari, Via Edoardo  
Orabona n. 4, 70125 Bari, Italy

## Message from the Editor-in-Chief

*Sensors* is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. *Sensors* organizes Special Issues devoted to specific sensing areas and applications each year.

## Author Benefits

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

**High Visibility**: indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [PubMed](#), [MEDLINE](#), [PMC](#), [Ei Compendex](#), [Inspec](#), [Astrophysics Data System](#), and [other databases](#).

**Journal Rank**: JCR - Q2 (*Chemistry, Analytical*) / CiteScore - Q1 (Instrumentation)

## Contact Us

---

*Sensors* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

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

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