



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

Department of Electrical and
Information Engineering,
Politecnico di Bari, Via Orabona
4, 70126 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 (Instruments and Instrumentation) / CiteScore - Q1 (Instrumentation)

Contact Us

Sensors Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/sensors
sensors@mdpi.com
[X@Sensors_MDPI](#)