

## Special Issue

# Theory, Methods and Applications of Electromagnetic Scattering

### Message from the Guest Editor

The topics of interest include, but are not limited to, the following:

- Passive Optical Networks: recent advances in PON network design analysis, optimization and management.
- Active Optical Networks: recent advances in AON network design analysis, optimization and management.
- Dense Wavelength Division Multiplexing Networks: recent advances in DWDM network design analysis, optimization, and management; Open ROADM; SDN; NFV; and machine learning.
- Cybersecurity of fiber-optic communication systems: vulnerabilities of fiber-optic communications systems including the identification, detection, prioritization and various other aspects of vulnerability management.
- Power/energy consumption of fiber-optic communication systems: including either theoretical or experimental analysis.
- Cloud and edge computing: the application of fiber-optic communications systems in cloud and edge computing.

We look forward to receiving your contributions.

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### Guest Editor

Dr. Massimo Donelli

Department of Civil, Environmental and Mechanical Engineering (DICAM), University of Trento, 38123 Trento, Italy

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### Deadline for manuscript submissions

30 September 2025



## Electronics

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## About the Journal

### Message from the Editor-in-Chief

*Electronics* is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guestedited by leading experts in selected topics of interest.

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### Editor-in-Chief

Prof. Dr. Flavio Canavero

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