

# Special Issue

## Single-Photon Detection Instrumentation and Applications

### Message from the Guest Editor

The aim of this Special Issue is to collect contributions outlining recent advances on single-photon detection instrumentation as well as their building blocks and applications. Papers on single-photon detectors, electronics for photon counting/timing, complete single-photon detection systems and applications are welcomed. Topics of interests include, but are not limited to, the following aspects of single-photon detection:

- Design, modeling and experimental characterization of detectors, circuits and systems.
- Fabrication technology, especially for detectors.
- Packaging and optical coupling.
- Architectures and algorithms for efficient data processing.
- Application examples and requirements.

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### Guest Editor

Prof. Dr. Angelo Gulinatti

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### Deadline for manuscript submissions

closed (28 February 2020)



## Instruments

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## About the Journal

### Message from the Editor-in-Chief

The realization of dedicated instrumentation has always been a collateral aspect of experimental research. In addition, many groups dedicate efforts and resources solely to the development of new devices, sensors, equipment and large infrastructure, theoretical and numerical studies, and novel experimental methodologies. With *Instruments* we wish to address both established and emerging communities, also to favor the creation of innovative trans-disciplinary approaches. We see *Instruments* as an exciting high-impact journal that will soon hold a leading position in disseminating cutting edge scientific and technological research.

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### Editor-in-Chief

Prof. Dr. Antonio Ereditato

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### Author Benefits

#### High Visibility:

indexed within ESCI (Web of Science), Scopus, Inspec, CAPIus / SciFinder, INSPIRE, and other databases.

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 21.1 days after submission; acceptance to publication is undertaken in 3.8 days (median values for papers published in this journal in the first half of 2025).

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