



## Call for Papers

### IEEE Open Journal of Instrumentation and Measurement (IEEE OJIM)

#### Special Section on

#### Photonic Technology in Instrumentation and Measurement

Photonics plays a critical role in everyday life. Telecommunications, sensor technology, medicine and spectroscopy, to name a few, all rely on this 20th-century discovery. Photonic technology is increasingly used in instrumentation and measurement for applications in oil and gas industry, electric power system, aerospace missions, transport, civil structure, military defense, ocean exploration, biomedical detection, environmental monitoring and other areas. The field is related to many of the fastest evolving engineering professions in a challenging time but with increasing opportunities.

This *Special Section*, in the IEEE OJIM focuses on recent developments in photonic technology for sensing and measurement. The aim is to bring together contributions from leading experts in the field, survey the state-of-the-art photonic technology in instrumentation and measurement, as well as to organize a forum for reporting the recent cutting-edge advances in this field. The topics for this special section include, but are not limited to the following:

- Novel photonic concepts and techniques for the measurement of physical, chemical and biological parameters
- Micro- and nano-structured fiber and waveguide sensors
- Photonic multiplexing and sensing networking
- Distributed photonic sensing structures and systems
- Photonic sensor fusion and big data
- Photonic sensing applications, field tests, and standardizations

Each Submitted paper will go through a rigorous review process consistent with the IEEE OJIM requirements. The Open-Access [Article Processing Charge](#) (APC) of \$2,075 (in 2025) will be *waived* for accepted papers. Please note that the [Overlength Page Charge](#) fee will still be charged for papers longer than eight pages. Papers will be published as they are accepted, and the Special Section is intended to be published in the latter part of 2025, consistent with the following Schedule:

#### Deadlines

**Submission: April 30, 2025**

**First Decision: June 15, 2025**

**Final Decision: August 15, 2025**

**Publication Volume: Volume #4, 2025**

For more information and submission instructions, please visit OJIM's website:

<https://ieee-ims.org/publication/ieee-ojim/about>

#### Guest Editors:

Dr. Gaozhi (George) Xiao - National Research Council, Ottawa, Canada (george.xiao@nrc-cnrc.gc.ca), Guangzhou, China (tuanguo@jnu.edu.cn)