

Announcing a Special Issue of the  
*IEEE/Optica Publishing Group*  
*Journal of Lightwave Technology* on:

## **GUIDED LIGHTWAVES FOR SENSORS & MEASUREMENT SYSTEMS: ADVANCED TECHNIQUES and APPLICATIONS**

This special issue is organized by the IEEE Instrumentation and Measurement Society. It will be the fourth special issue on the same topic following the previous three successful ones (2017, 2019, and 2021). It aims to highlight the advancement of guided lightwaves in applications to sensors, instrumentation, and measurement. The scope includes, but is not limited to the following:

- Sensors and instrumentation for industrial, environmental, biological, and energy applications including
  - chemical, medical, and biological applications
  - environmental monitoring
  - structural health monitoring
  - traditional and renewable energy monitoring
- Novel concepts and mechanisms of guided lightwaves for sensing and measurement
- Advanced materials, structures technologies of guided lightwaves for sensing and measurement
- Instrumentation for optical fiber communication monitoring applications
- Micro- and nano-scale sensors
- Multiplexing and distributed sensor networks
- High speed instrumentation and measurement systems
- Sensor fusion, big data, and artificial intelligence

On behalf of the Guest Editors and the Editor-in-Chief, we encourage you to submit your work for inclusion in this special issue. Accepted papers will appear in the June/July 2023 hardcopy issue with accepted papers posted online within one week of author final file upload. Mandatory page charges of \$260.00 per page are enforced for original contributions more than 7 pages and invited papers more than 10 pages. Tutorial presenters will be invited to write articles that are up to 16 pages in length. The same mandatory fees apply to each tutorial paper more than 16 pages.

Submissions by website only: <http://mc.manuscriptcentral.com/jlt-ieee>

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