



## **International Symposium on Fiber Optic Sensors and Smart Infrastructure**

### **Distributed Sensing • Structural Health Monitoring • Smart Cities**

*This international symposium will be organized within the scope of INTERPHOTONICS 2026 and aims to bring together researchers, engineers, and industry professionals working on fiber-optic sensing technologies for smart and resilient infrastructure systems.*

**Scope:** This symposium focuses on fiber-optic sensing technologies applied to energy networks, civil and transportation structures, industrial facilities, and urban infrastructure. It provides a common platform for academic researchers and industrial partners to share recent advances, field implementations, and future trends in distributed and multiplexed sensing systems.

Topics of interest include, but are not limited to:

- Distributed Acoustic Sensing (DAS) technologies and applications
- Distributed Temperature Sensing (DTS) systems for infrastructure monitoring
- Structural Health Monitoring (SHM) of bridges, pipelines, tunnels, and large-scale structures
- Fiber Bragg Grating (FBG) sensors and multiplexed fiber-optic sensing systems
- IoT-integrated sensing platforms for smart and connected infrastructure

**Applications:** Research presented in this symposium is expected to contribute to a wide range of real-world applications, including earthquake and seismic monitoring, pipeline safety and leakage detection, energy grid monitoring, railway and transportation systems, industrial asset monitoring, and smart city infrastructure.

**Symposium Organization Opportunity:** Researchers and professionals with strong expertise in fiber-optic sensors, distributed sensing, structural health monitoring, or smart infrastructure technologies are warmly invited to take an active role in the organization of this symposium. Interested participants may serve as Symposium Chair or Co-Chair, contribute to shaping the technical program, invite keynote and invited speakers, and lead focused discussions bridging academic research and industrial applications.

**How to Apply as Symposium Chair:** Researchers who wish to organize or chair this symposium are kindly invited to contact the Conference Chair with a brief statement of interest, including their

research background, proposed focus areas within the symposium scope, and potential invited speakers. All applications will be evaluated by the INTERPHOTONICS 2026 Organizing Committee.

### **Contact Information**

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INTERPHOTONICS 2026 Website

<https://www.interphotonics.org>