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Trends and Prospects in Optical Fiber Sensors

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Deadline for manuscript submissions:
closed (15 March 2024)

Message from the Guest Editors

Dear Colleagues,

This Special Issue focuses on the emerging trends and applications of fiber-optic sensors in Industry 4.0 (predictive maintenance, the measurement of electrical and magnetic quantities, temperature and vibration sensors, etc.), smart cities (IoT sensors, automobile and rail transport, product pipelines leakages, smart waste management, structural health, fire detection, etc.), and biomedical engineering (magnetic resonance sensors, smart home care, wearable sensors, in vitro and in vivo sensors, etc.).

The Special Issue will focus (but not exclusively) on the following types of fiber-optic sensor technologies:

- Fiber-optic and polymer Bragg gratings.
- Distributed systems based on Rayleigh, Raman, and Brillouin scattering.
- Fiber-optic interferometric and polarimetric systems.
- Intensity sensors.
- Micro- and nano-structured fiber sensors.
- New emerging concepts for photonic sensing.

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Message from the Editor-in-Chief

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