



Fiber Optic Sensing Technology

Guest Editor:

Dr. Marcel Fajkus

Department of
Telecommunications, Faculty of
Electrical Engineering and
Computer Science, VSB-
Technical University of Ostrava,
17. Listopadu 2172/15, 70800
Ostrava, Czech Republic

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Message from the Guest Editor

Fiber-optic sensing technologies offer a high potential for utilization due to their properties compared to conventional sensor types. This Special Issue will explore new designs and improved sensing approach architectures to achieve higher measurement accuracy and resolution, and increase the functionality of sensors for measuring multiple quantities at once. This Special Issue will focus on the following fiber optic sensing 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
- Fiber specklegram sensors
- New concepts for photonic sensing

Another goal is to extend the usability of these technologies and improve their principles for sensing applications in the following areas:

- Biomedical applications
- Structural health monitoring
- Automobile, train, and air transport
- Measurement of electrical and magnetic quantities
- Very high-temperature measurement
- Measurement in the chemical industry
- Use of smart materials for fiber-optic sensors
- Perimetric applications





sensors



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Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro

Department of Electrical and
Information Engineering,
Politecnico di Bari, Via Orabona
4, 70126 Bari, Italy

Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. *Sensors* organizes Special Issues devoted to specific sensing areas and applications each year.

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Sensors Editorial Office
MDPI, Grosspeteranlage 5
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