

## Special Issue

# Recent Advances in Fiber Bragg Grating Sensing-2nd Edition

### Message from the Guest Editors

Fiber Bragg gratings (FBGs) have been used in various applications for more than 40 years. They are reliable sensing elements and fiber laser components, with sensing characteristics that can be adjusted according to the host fiber material. This Special Issue aims to cover a broad spectrum of FBG sensing technology in the form of regular and review papers. Topics of interest include, but are not limited to, the following:

- Grating structures, tilted Bragg gratings, long-period gratings and chirped gratings;
- FBGs in specialty optical fibers (polymer fibers, silica fibers, sapphire fibers etc.);
- Advanced FBG-based mechanical and physical sensors;
- Advanced FBG-based biomedical, chemical and environmental sensors;
- Performance of FBG systems in real environments;
- Demodulation algorithm and signal processing of complexed FBG sensors;
- Performance of FBGs in harsh environments;
- Acoustic sensors;
- FBG applications in oil and gas industry, robotics, structural health monitoring, aerospace missions, civil structure, smart textiles and other areas.

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### Guest Editors

Dr. Antreas Theodosiou

Photonics Research Center (PRC), Lumoscribe, Anthipoloxagou Georgiou M. Savva 12, Geroskipou, Paphos 8201, Cyprus

Dr. Xuehao Hu

Department of Electromagnetism and Telecommunication, University of Mons, Mons, Belgium

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### Deadline for manuscript submissions

closed (31 December 2023)



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Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[sensors@mdpi.com](mailto:sensors@mdpi.com)

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### 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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### Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro  
Department of Electrical and Information Engineering, Politecnico di Bari, Via Orabona 4, 70126 Bari, Italy

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