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## Optical Fiber Bend Sensors

Guest Editors:

**Prof. Dr. Yanan Zhang**

College of Information Science  
and Engineering, Northeastern  
University, Shenyang 110819,  
China

**Dr. Shuhui Liu**

Hubei Key Laboratory of Optical  
Information and Pattern  
Recognition, Wuhan Institute of  
Technology, Wuhan 430205,  
China

**Dr. Yu Zheng**

Rain Tree Photonics PTE. LTD.,  
Singapore 368001, Singapore

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### Message from the Guest Editors

Dear Colleagues,

Fiber-optic bending sensors have attracted growing attention due to the advantages of compact size, high sensitivity, fast response, and immunity to external electromagnetic fields, which have been exploited in the fields of composite material structures, structural monitoring, accelerometers, displacement measurement, robot arms and artificial limbs. Recent progress focuses on directional or vector bending sensors, especially multi-direction and 3D vector bending sensors such as fiber Bragg gratings built in multicore fibers. Moreover, 3D shape sensing based on the understanding of the fiber bending curvature and direction has also been drawing increasing attention. This Special Issue seeks to bring attention to the most recent results in the field of fiber bend sensors, including new sensing mechanisms, processes, and applications.

Potential topics include but are not limited to:

- Vector bend sensors;
- Multi-direction bending sensors;
- Curvature sensors;
- Multicore fiber bend sensors;
- Machine learning in fiber bend sensing;
- Shape sensors;
- Distributed shape sensing.





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### **Prof. Dr. Vittorio M. N. Passaro**

Dipartimento di Ingegneria  
Elettrica e dell'Informazione  
(Department of Electrical and  
Information Engineering),  
Politecnico di Bari, Via Edoardo  
Orabona n. 4, 70125 Bari, Italy

## Message from the Editor-in-Chief

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*Sensors* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
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