

Special Issue

Optical Fibers as a Key Element of Distributed Sensor Systems II

Message from the Guest Editor

This Special Issue aims to attract both theoretical and practical works that deal with optical fibers as a key element of distributed fiber sensing systems (DFSS). Of particular interest are submissions on, but not limited to, basic technologies of the modeling, design, fabrication, and utilization of optical fibers for different, including extremal, applications of DFSS; the effect of optical fibers' characteristics on the performance of DFSS in general; and problems regarding the interconnections of different fiber types. This Special Issue will also focus on the fiber construction in modern DFSS multiplexing of the three main backscattering mechanisms—Rayleigh, Raman, and Brillouin—in conjunction with fiber Bragg gratings written in Single-mode, Multi-mode, Few-mode, and MC fibers. Review articles that describe the current state of the art are also welcome.

Guest Editor

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Deadline for manuscript submissions

closed (30 November 2023)



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About the Journal

Message from the Editor-in-Chief

Fibers is intended as an integrative platform, bringing together specialists with expertise concerning a large range of biological, synthetic, metallic and mineral fibers. The intent is to bring together scientists who would otherwise be unlikely to encounter each other's findings. By facilitating communication across specialties, the journal will advance understanding of the underlying commonality of many physical and chemical aspects of fibers.

We welcome submission of manuscripts from a diverse range of disciplines relating to many types of fibers utilizing a variety of research approaches.

Editor-in-Chief

Prof. Dr. Martin J. D. Clift

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