Special Issue

Emerging Multimode Fiber Technologies for Communications and Beyond

Message from the Guest Editors

Multimode fibres (MMFs) are at the core of numerous areas of development and research. While for many years, MMF was predominantly employed as a powerefficient cable for short-distance speckled light transport, its complex transmission properties can now be overcome and exploited with modern technologies. This Special Issue looks at the latest trends in MMFs supporting multiple transverse modes and/or are equipped with multiple (multimodal) cores, known as multicore fibre MCFs. The range of applications for this material include, and are not limited to: communications, biomedical imaging, spectroscopy and complex lasers. This Special Issue aims to gather original research and review articles in different stages of development, from new challenges and theories to approaches, applications, devices and systems and networks. For more details, please visit here.

Guest Editors

Dr. Nektarios Koukourakis

Competence Center for Biomedical Laser Systems, Faculty of Electrical and Computer Engineering, TU Dresden, 01062 Dresden, Germany

Dr. Stefan Rothe

Department of Applied Physics, Yale University, New Haven, CT 06520, USA

Deadline for manuscript submissions

closed (25 April 2025)



Sensors

an Open Access Journal by MDPI

Impact Factor 3.5 CiteScore 8.2 Indexed in PubMed



mdpi.com/si/138357

Sensors
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sensors@mdpi.com

mdpi.com/journal/ sensors





Sensors

an Open Access Journal by MDPI

Impact Factor 3.5 CiteScore 8.2 Indexed in PubMed



About the Journal

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.

Editor-in-Chief

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

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Ei Compendex, Inspec, Astrophysics Data System, and other databases.

Journal Rank:

JCR - Q2 (Instruments and Instrumentation) / CiteScore - Q1 (Instrumentation)

