Special Issue

Applications of Optical Fiber Sensors

Message from the Guest Editors

This Special Issue highlights studies and applications and addresses new technologies related to optical fiber sensors, together with emerging standards and research topics that would push forward the realization of smart cities and the Internet of Things. Research areas may include, but are not limited to, the following:

- Novel theories and concepts for fiber-optic sensing;
- New fiber design and fabrication for sensing applications;
- Modeling reliability analysis of fiber-optic devices, circuits, and systems;
- Circuit and system design and optimization for emerging remote sensing technologies;
- Digital signal processing in fiber-optic sensor networks, and sensor fusion techniques with multi-modal data;
- Thermal-aware electronics, system-on-chip, and network-on-chip combined with fiber-optic sensing systems;
- Innovative fiber-optic sensor design and verifications with high accuracy and reliability;
- Application of fiber-optic sensors in any area including healthcare, bio-sensing, smart homes, smart cities, environment monitoring, structural health, battlefield surveillance, robotics, and oil and gas leakage.

Guest Editors

Dr. Yi Weng

Lumentum Operations LLC., 1001 Ridder Park Drive, San Jose, CA 95131, USA

Dr. Zhongqi Pan

Department of Electrical and Computer Engineering, University of Louisiana at Lafayette, Lafayette, LA 70504, USA

Deadline for manuscript submissions

closed (15 September 2024)

Electronics

an Open Access Journal by MDPI

Impact Factor 2.6
CiteScore 6.1

mdpi.com/si/134968

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

mdpi.com/journal/electronics

Electronics

an Open Access Journal by MDPI

Impact Factor 2.6
CiteScore 6.1

mdpi.com/journal/electronics

About the Journal

Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guest-edited by leading experts in selected topics of interest.

Editor-in-Chief

Prof. Dr. Flavio Canavero
Department of Electronics and Telecommunications, Politecnico di Torino, 10129 Torino, Italy

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), CAPlus / SciFinder, Inspec, Ei Compendex and other databases.

Journal Rank:

JCR - Q2 (Engineering, Electrical and Electronic) / CiteScore - Q1 (Electrical and Electronic Engineering)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.8 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).

MDPI