

Fiber Optic Sensors in Biomedical Applications

Guest Editors:

Dr. Elena De Vita

Department of Engineering,
University of Naples
"Parthenope", 80143 Naples, Italy

Prof. Dr. Agostino Iadicicco

Department of Engineering,
University of Naples
"Parthenope", 80143 Naples, Italy

Prof. Dr. Stefania Campopiano

Department of Engineering,
University of Naples
"Parthenope", 80143 Naples, Italy

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Message from the Guest Editors

This Special Issue welcomes papers covering the latest developments and trends in fiber optic sensors in biomedicine and healthcare. We warmly invite researchers to submit original research papers, communications, and review articles dealing with the recent advances, open challenges, and future perspectives in this field.

Topics of interest include, but are not limited to, the following:

- Fiber-optic-based sensors, biosensors, and wearables for healthcare applications;
- Non-invasive and minimally invasive monitoring techniques based on fiber optic sensors for biomedical purposes;
- Fiber optic sensors in therapy and diagnosis;
- Embedding and packaging of fiber optic sensors in biomedicine;
- Integration of nanomaterials with fiber-optic-based systems;
- Optical sensors validation in ex vivo and in vivo experimental studies;
- Development of fiber-optic-based techniques or instrumentation for healthcare;
- Numerical versus experimental comparisons;
- Medical devices based on optical sensors;
- Post-processing of fiber optic sensor data and use of machine learning algorithms.



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