

Special Issue

Advanced Tactile Biosensors in Healthcare Applications

Message from the Guest Editors

Tactile biosensors are a transformative interdisciplinary technology that connects neuroengineering, precision sensing, and clinical medicine to address unmet needs in rehabilitation, human–computer interaction, and personalized medicine. From miniaturized neural interfaces that decode tactile perception to clinically translatable wearable/implantable devices that restore sensory function, advances in this field are redefining the future of precision medicine and rehabilitation.

This Special Issue aims to present cutting-edge research in this field, with a focus on biomimetic tactile interfaces based on novel biometric elements and signal conversion technologies. Our goal is to accelerate the translation of laboratory-scale innovation into clinical practice and highlight works with tangible impact. This Special Issue welcomes both critical reviews and original research articles. We invite you to share your breakthrough findings and work with us to establish the next generation of advanced tactile biosensors for healthcare.

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About the Journal

Message from the Editor-in-Chief

Biosensors is a leading journal, devoted to fast publication of the latest achievements, technological developments and scientific research in the exciting multidisciplinary area of biosensors. Both experimental and theoretical papers are published, including all aspects of biosensor design, technology, proof of concept and application. Special issues are devoted to specific technologies and applications, and a selection of the most outstanding papers each year is recognized. Pushing the boundaries of the discipline, we invite original papers, as well as timely reviews on cutting edge fields within the subject area.

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