



sensors



an Open Access Journal by MDPI

Sensor Applications in Medical Monitoring and Assistive Devices

Guest Editors:

Dr. Pubudu N. Pathirana

School of Engineering and Technology, Deakin University, Locked Bag 20000, Geelong, VIC 3220, Australia

Dr. David J Szmulewicz

Balance Disorders & Ataxia Service, Royal Victorian Eye and Ear Hospital, University of Melbourne, Melbourne, Australia

Prof. Malcolm Horne

Florey Institute of Neurosciences and Mental Health, St Vincent's Hospital Melbourne, University of Melbourne, Melbourne, Australia

Deadline for manuscript submissions:

closed (15 July 2018)

Message from the Guest Editors

The development of sensor systems for monitoring and assistive devices will encompass the following areas:

- Sensor platforms and biomedical signal and data processing
- Power and wearability aspects in device design
- Pattern recognition, data mining and machine learning applied to biomedical system design
- Feature extraction and quantification of biomedical movements of speech
- Computational Modeling and Data Integration
- Biomedical Text Mining
- Medical Robotics
- Health informatics and Clinical Data analytics
- Biomedical Computing
- Clinical Data Analysis
- Wireless physiological monitoring devices and software application development
- Autonomic context sensing and multi-sensor fusion technology
- Remote sensing systems for patient assessment and treatment in medical and allied health clinics
- Real-time monitoring of physical daily life activities, caloric intake, sleep quality, gait, posture and other factors related to personal well-being.
- Body-sensor networks in biomedical application
- Healthcare applications based on IoT technologies.
- Clinical assisted living applications
- Human gait dynamics and balance metrics



mdpi.com/si/12643

Special Issue



sensors



an Open Access Journal by MDPI

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

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.

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 & Instrumentation*) / CiteScore - Q1 (*Instrumentation*)

Contact Us

Sensors Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/sensors
sensors@mdpi.com
[X@Sensors_MDPI](#)