Special Issue

Electromagnetic Sensors for Biomedical Applications

Message from the Guest Editors

Electromagnetic sensors for biomedical applications are receiving increasing attention both in scientific and industrial communities. Substituting existing bulky and expensive instrumentation with smart sensors having a reduced size and lower cost such as micro total analysis systems (μTAS), lab-on-a-chip, or wearable devices is a challenge from the perspective of telemedicine, point of care analyses, and personalized pharmacological treatment. Topics are including, but are not limited, to:

Modeling, characterization and fabrication of electromagnetic biosensors;
Electrical impedance spectroscopy (EIT);
Electrical impedance tomography (MIT);
Magnetic induction tomography;
μTAS;
Lab-on-a-chip devices;
Electromagnetic sensors for blood analysis;
Sensors and methods for cells and living tissue electromagnetic characterization;
Electroencephalography (EEG) and magnetoencephalography (MEG);
Hardware and biosignal processing for electrocardiography (ECG);
Sensors and biosignal processing for stress detection;
Wearable and flexible sensors;
Sensors for well-being in ageing populations (ambient assisted living)

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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.

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