Special Issue

Low-Cost Sensors and Biological Signals

Message from the Guest Editors

The electrical, chemical, and mechanical activities that occur during various biological events produce signals that can be measured by sensors, followed by storage and subsequent analysis. These biosignals contain valuable information that can be used to understand the underlying physiological mechanisms of specific biological functions, such as blood pressure, body temperature, joint movement, and the electrical activity of the brain, heart, and muscles. Thus, they may be crucial for clinicians and medical diagnosis. Authors are invited to submit articles to this Special Issue but not limited to the following topics:

- Clinical applications of low-cost sensors;
- Metrological comparison between low-cost sensors and gold-standard sensors;
- Calibration methods;
- Signal processing (including deep-learning techniques);
- Data storage and/or wireless transmission;
- Real-time data processing and visualisation;
- Use of sensors in rehabilitation (biofeedback, virtual reality, augmented reality, etc.);
- Sensor design and noninvasive measurement techniques;
- Ethical and epistemological dimensions of sensor-based medicine.

Guest Editors

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Dr. Stéphanie Eggermont

Deadline for manuscript submissions

closed (15 September 2020)

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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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