

Special Issue

Bio-Electronics in Healthcare: Biosensors and Biomedical Signal Processing

Message from the Guest Editors

Electronics and sensors in healthcare are driving forces for improving quality of care and safety. From wearable devices to the operating theatre and implants, electronics and sensors are playing a vital role. Miniaturisation has led to more implantable devices for accurate in-vivo measurement. In some of these applications, it is advantageous to have flexible devices. This can include solutions such as completely organic electronics or thinned/small silicon chips mounted on flexible substrates. Some of these devices, for implants, can be made to be bio-degradable so that the body absorbs the devices at the end of their useful lives. It is also essential to have good signal processing. In the case of implants, this should be low-power and efficient, due to the low levels of energy available. This Special Issue is designed to attract papers covering the whole range of the system, from sensors to read-out and further signal processing and communication. Aspects such as special packaging techniques and power systems are also welcome.

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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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