Special Issue

Measurements Techniques of Biological Tissues Dielectric Properties, Updated Data and Current Applications

Message from the Guest Editors

In recent years, there has been a re-emerging interest in the dielectric properties of biological tissues, aimed at the development of advanced applications related both to the medical utilization of electromagnetic fields, such as in hyperthermic treatment modalities and medical imaging, and to on-body and implant-based communications. Designing and developing electromagnetic energy-based medical devices and communication technologies require novel systematic approaches to the investigation of the wideband frequency behavior of tissues' dielectric properties as well as of their dependence on temperature and dehydration. Accordingly, research has been focused on improving the techniques for measuring tissues dielectric properties to discriminate against possible measurement confounders and develop measurements best practices. The speical issue will include, but not limited to, the following topics:

- dielectric measurements
- electromagnetic sensors
- measurement techniques
- biological tissues
- modelling
- medical devices and sensors
- meta-data recording

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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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