



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

Guest Editors:

Prof. Dr. Marta Cavagnaro

Department of Information
Engineering, Electronics and
Telecommunications Sapienza
University, Via Eudossiana, 18-
00184 Rome, Italy

Dr. Giuseppe Ruvio

1. Translational Medical Device
Lab, National University of
Ireland, Ireland;
2. GalwayEndowave Ltd, Ireland

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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 special 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





sensors



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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

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