Special Issue

Sensors in Magnetic Resonance Imaging

Message from the Guest Editor

Magnetic resonance imaging (MRI) has emerged as one of the most powerful and informative diagnostic tools in modern medicine. While most clinical MR studies use magnetic field strengths of 1.5T or 3T, leading research is pushing these magnetic field strengths to 7T and beyond. Innovative MRI sensors, such as modern RF coils, promise images with higher spatial resolution, higher sensitivity to subtle changes, and novel contrasts, which will, in turn, improve our basic understanding of anatomy and physiology in both healthy tissue and disease. This research topic will introduce some of the major challenges faced in modern MRI coil and sensor development and will summarize a number of concepts that are being researched to overcome these issues.

Guest Editor

Dr. Simone Angela Winkler

Department of Radiology, Weill Cornell Medicine, New York, NY 10065, USA

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Sensors
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sensors@mdpi.com

mdpi.com/journal/sensors

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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.

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

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