Special Issue

Emerging MRI Techniques for Enhanced Disease Diagnosis and Monitoring

Message from the Guest Editor

Magnetic Resonance Imaging (MRI) continues to evolve as one of the most powerful and versatile diagnostic tools in modern medicine. This Special Issue will focus on recent advances in MRI hardware and acquisition techniques that are transforming disease diagnosis and monitoring. Topics of interest include novel RF coil designs, advanced gradient systems, ultra-high-field and ultra-low-field MRI technologies, and materialbased innovations that enhance imaging performance. We also welcome contributions on new pulse sequences, reconstruction algorithms, and multiparametric imaging methods that improve sensitivity, specificity, and quantification across a range of clinical applications. By bringing together innovations in engineering, physics, and computational imaging, this issue aims to highlight interdisciplinary efforts that push the boundaries of MRI and open new pathways for early detection, longitudinal monitoring, and precision diagnosis of disease. Submissions are encouraged from both academic and industry researchers working at the intersection of sensor development, imaging hardware, sequence design, and clinical translation.

Guest Editor

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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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