Special Issue

MR-Based Neuroimaging

Message from the Guest Editors

This Special Issue will be focused on advancements in MRI techniques and quantitative MRI analysis, which are central to neuroimaging research. Nowadays, contemporary and innovative analytical perspectives are essential for uncovering MR-based biomarkers and understanding their role in the early stages of brain diseases. This Special Issue explores a comprehensive range of MRI sequences, including functional and structural MRI, as well as diffusion tensor imaging. It covers both traditional methods and novel approaches, such as the application of machine learning and deep learning techniques. Furthermore, this Special Issue is driven by the growing interest within the research community in understanding structural and functional connectivity through MR imaging, as well as the use of MR imaging to customize treatments for neurological disorders. Additionally, this Special Issue addresses the challenges of integrating various MRI technologies as essential biomarkers for clinical use. It also outlines potential future directions, offering a roadmap for ongoing innovation.

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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