Special Issue

Innovative Technologies Oriented towards Real-Time Ultrasound Medical Imaging

Message from the Guest Editors

Over the last few decades, innovative imaging techniques have been developed and demonstrated to be effective in reconstructing quantitative information (e.g., of blood flow, tissue motion, and elasticity) at high spatiotemporal resolutions over two- and three-dimensional regions of interest. However, such techniques impose strict requirements on the hardware and processing abilities of an ultrasound system, which can be challenging to meet. Hence, the ultrasound system's ability to produce results in real time is often lost, hindering a clinical translation. Considering this perspective, it becomes paramount to focus our efforts on the development of low-complexity algorithms, highly efficient implementations, and high-performance systems in order to activate real-time feedback, even for innovative imaging techniques. This Special Issue aims to gather (algorithm-, implementation-, or system-wise) technological innovations that take into account the need for real-time feedback. We warmly invite authors to collaborate on the Special Issue with original high-quality research or review papers.

Guest Editors

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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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