Special Issue

Medical Imaging Using Machine Learning and Deep Learning

Message from the Guest Editors

Recent years have witnessed a rapid growth of interest in the development of intelligent imaging systems for medical purposes. Intelligent medical imaging is attractive for its high speed, super-resolution, and low cost. In particular, machine learning (ML) and deep learning (DL) techniques that seamlessly integrate big data and high-performance computing have largely facilitated the study of advanced medical imaging systems and their applications. So far, a wide range of work has shown the merit of ML/DL-based imaging systems as compared to conventional ones. Still, a considerable amount of challenges remain to be addressed in this field, concerning not only fundamental theory but also its clinical applications. This Special Issue will be dedicated to intelligent medical imaging pipelines, including but not limited to the learning theory, smart system design, imaging methods, algorithms, signal and image processing techniques, with their applications to electromagnetic imaging/computed tomography (CT)/magnetic resonance imaging (MRI)/positron emission tomography (PET)/ultrasound (US), as well as multimodalities joint imaging.

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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.

Editor-in-Chief

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