Special Issue

Advances and Applications of Medical Imaging Physics

Message from the Guest Editor

Medical imaging has developed rapidly and is now a versatile tool with numerous possible applications. Imaging has experienced a quantum leap in technology and clinical applications over the last 30 years. This leap includes super-resolution ultrasound imaging, X-ray computed tomography (CT), emission computed tomography (SPECT and PET), magnetic resonance imaging (MRI). The application of the principles and methods of physics in medical imaging has contributed to an improvement in this field. The development of medical imaging is the result of physicists collaborating with engineers and physicians. As medical imaging continues to evolve, researchers are finding ways to improve diagnosis and treatment planning. One of the most exciting areas currently being researched is the application of artificial intelligence to medical imaging, which can set new frontiers in both diagnosing disease and planning as well as monitoring the effectiveness of treatments. The scope of this Special Issue of Applied Sciences is to collect original research manuscripts describing cutting-edge medical imaging physics developments in medicine, providing updates on the latest progresses in this field.

Guest Editor

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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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