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AI Technology in Medical Image Analysis

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Deadline for manuscript submissions:
closed (31 October 2023)

Message from the Guest Editors

The amount of medical image data collected by medical imaging devices deployed in clinical practice is growing day by day. The number of medical experts who can reliably evaluate these images cannot follow this trend, mainly because of the high training costs. Consequently, there is a strong need for automated image processing methods and procedures, which can preprocess the collected images and draw the attention of the medical staff to the cases suspected of containing any abnormal features.

Artificial intelligence represents the foundation of decision support systems involved in medical image-based diagnosis. All processing steps, from image creation to quality enhancement, registration, segmentation, and interpretation, are usually assisted by machine intelligence.

This Special Issue will publish high-quality, original research papers that bring advancements to automated medical diagnosis support, involving the diagnosis of any abnormal condition of the human organism, based any medical imaging modalities, either whole diagnosis procedures or relevant improvements to any processing steps of previously reported methodologies.

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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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