Topical Collection

Artificial Intelligence (AI) in Biomedical Imaging

Message from the Collection Editor

With recent advancements in AI, medical imaging has developed in many innovative ways. Numerous AI-based tools have been developed to automate medical image analysis and improve automated image interpretation. Deep learning approaches have demonstrated exceptional performance in the screening and diagnosis of many diseases. This field is also becoming increasingly accessible to researchers in medicine and biology who have not traditionally been machine learning practitioners. A further challenge regarding AI driven solutions is the development of tools for a personalized disease assessment through deep learning models by taking advantage of their ability to learn patterns and relationships in data and utilize massive volumes of medical images. The aim of the Special Issue is to focus on medical image processing and analysis regarding AI-driven computer-aided diagnosis and improvement of automated image interpretation. However, contributions concerning other aspects of medical image processing and analysis (including image quality improvement, restoration, segmentation, registration, and radionics analysis) are also welcomed.

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Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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