Advances in Clinical Decision Support Systems: Artificial Intelligence, Machine/Deep Learning, Computer-Aided Diagnosis/Detection, and Radiomics

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Deadline for manuscript submissions:
closed (25 May 2022)

Message from the Guest Editors

Dear Colleagues,

Clinical decision support systems (CDSSs) are software tools designed to impact clinician's decisions on patients' care, during either the diagnostic procedure or treatment planning. This Special Issue focuses on all the practical applications of artificial intelligence in CDSSs. Besides papers describing models and algorithms working in all medical imaging modalities (e.g., X-ray, CT, MRI, ultrasound, nuclear medicine, molecular imaging, macroscopic and microscopic imaging, and multi-modality technologies) and other medical data, articles discussing human–computer interaction, workstation design, database management, and performance evaluation are also welcome.

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Guest Editors

Keywords: artificial intelligence; AI; machine learning; deep learning; pattern recognition; radiomics; radiogenomics; neural networks; computer-assisted diagnosis; computer-assisted detection; computer-aided diagnosis; computer-aided detection, expert systems; medical informatics; big data; artificial neural networks; medical image analysis; segmentation.

Special Issue

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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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