Special Issue

Deep Neural Networks in Medical Imaging

Message from the Guest Editors

Medical Imaging plays a key role in disease management. In the context of the availability of unprecedented data storage capacity and computational power, deep learning has become the state-of-the-art machine learning technique. The aim of this Special Issue of Applied Sciences is to present and highlight novel methods, architectures, techniques, and applications of deep learning in medical imaging.

- image reconstruction
- image enhancement
- segmentation
- computer aided detection
- landmark detection
- image or view recognition
- automated report generation
- multi-task learning
- transfer learning
- generative learning
- self-supervised learning
- semi-supervised learning
- weakly supervised learning
- unsupervised learning
- federated learning
- privacy preserving learning
- explainability and interpretability
- robustness and out-of-distribution detection
- uncertainty quantification

Guest Editors

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Deadline for manuscript submissions

closed (20 February 2023)

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About the Journal

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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