Special Issue

Artificial Intelligence Techniques for Medical Imaging and Computational Biology

Message from the Guest Editors

This Special Issue aims to provide a forum to publish original research papers covering state-of-the-art and novel algorithms, methodologies, and applications of AI methods for biomedical data analysis and processing, ranging from classic ML to DL. Research areas may include but are not limited to:

- ML and CI techniques for the segmentation, co-registration, classification, or dimensionality reduction of medical images.
- Generative adversarial models for medical image super-resolution, denoising, and synthesis.
- Deep learning for neuroimaging and oncological imaging analysis.
- Application of graph theory to MRI and functional MRI (fMRI) data.
- Computational modeling and analysis of neuroimaging.
- Radiomic analyses for disease phenotyping.
- Radiogenomics for intra- and intertumoral heterogeneity evaluation.
- CI methods for optimizing biomedical data analysis tasks.
- Integration of multiomics data.
- ML and CI techniques for combinatorial problems in bioinformatics and computational biology.
- Deep neural networks for classification tasks in single-cell data analysis.
- New clustering approaches for single-cell data analysis.

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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.

Editor-in-Chief

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