

## Special Issue

# Advances in Biomedical Image Processing and Diagnostic Techniques

### Message from the Guest Editor

This Special Issue will highlight both clinical needs and technical challenges in medical imaging processing and describe how emerging trends in connectome are addressing these issues. Topics covered will include network architecture, learning, interpretability, uncertainty quantification. We are looking to present studies that are related to digital pathology mainly in the brain, particularly prominent research highlights related to clinical study applications. Artificial intelligence and neural networks are significant procedures that tackle the medical diagnosis issue. Disease prediction is one of the basic tasks for medical diagnosis software. As of late, deep learning strategies have been effectively used in different applications to aid medical diagnosis. We will address research challenges and suggested solutions, as well as future promises and directions for further developments. Proposing new neural network algorithms, different machine learning techniques, and deep learning architectures could improve the detection of brain anomalies, providing timely diagnosis that could reduce the patient's risk for long-term symptoms and lasting deficits.

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### Guest Editor

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### Deadline for manuscript submissions

closed (20 March 2023)



## Applied Sciences

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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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### Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo  
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