Artificial Neural Networks in Medical Diagnosis

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Message from the Guest Editor

Dear Colleagues,

Medical diagnosis provides explanations of different patient's health problems based on the applications of artificial neural networks. To date, several technologies have been proposed to analyze medical data sets and different modality images to make diagnosis decisions. For example, artificial neural networks promise novel combinations of treatment protocols ensuring the most relevant and cost-effective and precisely targeting therapies in clinical medicine. In medical imaging, neural networks have the potential to lead to safer, faster, and more affordable diagnosis compared to using the existing imaging modalities ranging from optical analysis to radiographic imaging and nuclear medicine. This Special Issue is intended to lay the foundation of clinical artificial neural network applications focusing on case studies in medical data and image analysis, discuss several applications of neural network diagnostics with emphasis on personalized medicine, and offer an overview of frameworks for the broader integration of different algorithms in clinical practice.

Special Issue

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Message from the Editor-in-Chief

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