Deep Disease Detection and Diagnosis Models

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Message from the Guest Editors

Over the past decades, machine learning models have been widely utilized for the early detection and diagnosis of several diseases. However, machine learning models require handcrafted features for training and testing purposes. To overcome this problem, deep learning models have been developed. These models can extract the potential features of multimodal medical data automatically with the help of convolution layers. Fully connected layers and activation functions are then applied to the extracted features for classification purposes. Recently, the performance of deep learning models for the early diagnosis and detection of various diseases has significantly improved. However, these models suffer from a number of serious drawbacks. To overcome these problems, researchers have designed various approaches, such as evolving and compressing existing deep learning models. However, this is still an open area of research. Therefore, the main objective of this Special Issue is to consider novel articles and review articles that can overcome the aforementioned problems of deep learning models, and build effective disease detection and diagnosis frameworks.

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Special Issue

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Message from the Editor-in-Chief

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