



Deep Learning-Based Models for Medical Imaging Diagnosis

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Message from the Guest Editor

The principles of Deep Learning (DL) and its significance in medical diagnostic imaging are explained in Deep Learning Models for Medical Imaging using two distinct practical examples: (1) cytology image processing and (2) disease screening, prediction, and decision making. Both research studies used public datasets in their corresponding experimental studies; Custom CNN, OptiCNN, CovNet, ResNet, AlexNet, GoogleNet, InceptionNet, LeNet, and DenseNet are a few of the DL models that were employed. The outcomes include both "with" and "without" transfer learning, data augmentation, composite networks, and other optimization techniques. DL models for diagnostic imaging are accessible to a wide audience, from students commencing their academic careers to seasoned researchers and scientists in academia and industry. With a focus on case studies in medical information and image processing, this Special Issue aims to establish the foundation for DL applications, discuss various DL-based diagnostics applications with a focus on personalized treatments, and provide a summary of the frameworks for a wider integration of various methodologies in clinical practice.





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Message from the Editor-in-Chief

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