Special Issue

Advanced Applications of Deep Learning Methods: Interdisciplinary Perspectives

Message from the Guest Editors

A multitude of medical data from patients provide valuable information for diagnosing various diseases. However, it is cumbersome for clinicians to examine these data manually. In recent years, with advances in computer technology and mathematical methods, deep learning methods have been widely used in medical diagnosis; thus, medical diagnosis based on deep learning has become an important research direction. This Special Issue, entitled "Advanced Applications of Deep Learning Methods in Medical Diagnosis", aims to highlight the latest advances in the field of deep learning for medical diagnosis. We invite authors to submit original research articles as well as review articles, focusing on (but not limited to) the following topics:

- Deep learning of multimodal medical data;
- Deep learning for lesion recognition and localization in medical images;
- Deep learning for medical image processing;
- Interpretability of medical diagnosis in deep learning;
- Semi-supervised learning in medical diagnosis;
- Medical generation models;
- Computer-aided diagnosis systems based on deep learning.

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Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

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