

Special Issue

Intelligent Healthcare and Auditory Health: Machine Learning-Based Multimodal Biomedical Data Mining for Diagnosis

Message from the Guest Editors

In the biomedical field, machine learning and data mining technologies are reshaping disease diagnosis, health monitoring, and rehabilitation at an unprecedented rate. This Special Issue focuses on the innovative applications of these cutting-edge technologies in disease diagnosis, health informatics, and speech and auditory health. It aims to establish an interdisciplinary platform that integrates medicine, engineering, and linguistics, and promotes the implementation of explainable AI in clinical auditory health. The themes covered include, but are not limited to, the following:

- Auditory and Speech Computing: Optimizing cochlear implant parameters, refining noise suppression algorithms to enhance auditory signal processing and improve hearing-impaired individuals' auditory experiences.
- Speech Pathology Analysis: Analyzing speech characteristics of diseases like Alzheimer's and Parkinson's for new diagnostic and assessment angles.

We invite researchers to submit their latest work to this Special Issue, promoting the development of machine learning and biomedical data mining in auditory health and advancing intelligent healthcare.

Guest Editors

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Editor-in-Chief

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