Special Issue

AI-Powered Acoustic Monitoring for Digital Health Applications

Message from the Guest Editors

AI-powered acoustic monitoring represents a revolutionary approach to healthcare that harnesses the diagnostic power of sound through advanced artificial intelligence technologies. Acoustic monitoring enables continuous, non-invasive health assessment using readily available devices like smartphones and wearables. Machine learning algorithms can now detect subtle acoustic patterns invisible to human perception, identifying early signs of respiratory infections, cardiovascular abnormalities, neurological conditions, and mental health changes. This Special Issue aims to establish acoustic monitoring as a cornerstone of next-generation digital health infrastructure. We invite researchers from computer science, biomedical engineering, clinical medicine, and public health to contribute to this rapidly evolving field that promises more accessible, proactive, and personalized healthcare delivery.

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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