# Special Issue

# Biomedical Signal Processing in Healthcare: Latest Advances and Prospects

## Message from the Guest Editor

Biomedical signal processing is rapidly advancing, integrating AI and machine learning to enhance data analysis and clinical decision-making. These methods help extract and optimize clinical information from vast datasets, easing medical staff workloads and providing effective feedback. Advancements in sensors and remote tools enable continuous monitoring, crucial for timely intervention and expanding into fitness and well-being. The future of biomedical signal processing involves analyzing complex physiological systems to better understand diseases. This field focuses on intelligent systems to process large data sets, support clinical decisions, improve patient care, and open new research avenues. Recommended topics include:

- AI and Machine Learning Integration
- Wearable Health Monitoring
- Big Data in Healthcare
- Signal Processing Improvements
- Personalized Medicine
- Remote Patient Monitoring
- Non-invasive Diagnostics
- Smart Alert Systems
- Data Privacy, Security and Ethical Considerations

Submit your work to advance biomedical signal processing in healthcare.

## Guest Editor

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## Deadline for manuscript submissions

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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.

## Editor-in-Chief

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