Special Issue

Advanced Time Series and Computational Methods in Biological Signal Processing

Message from the Guest Editor

The Special Issue “Advanced Time Series and Computational Methods in Biological Signal Processing” aims to address the growing intersection of time series analysis, deep learning, and their transformative applications in biological signal processing and affective computing. Despite the rapid progress in this field, significant challenges remain. Biological signals, such as EEG, ECG, and PPG, are often noisy, complex, and non-stationary, requiring robust analytical methods capable of capturing temporal dependencies and underlying patterns. Traditional time series models often struggle with such complexities, while deep learning models, though powerful, are often computationally intensive and lack interpretability. Furthermore, the fusion of multimodal signals, essential for comprehensive understanding, presents additional challenges related to feature alignment, missing data, and modality-specific noise. This Special Issue provides a platform for researchers and practitioners to share innovative contributions that push the boundaries of time series analysis and deep learning for biological signal processing and affective computing.

Guest Editor

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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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