

Special Issue

Evolutionary Computation in Biomedical Signal Processing

Message from the Guest Editors

This Special Issue delves into this frontier where evolutionary computation meets biomedical signal processing.

Potential topics encompass, but are not confined to:

Evolutionary algorithms for signal feature selection and time–frequency analysis

Genetic programming for filter optimization, automated diagnosis and event detection

Evolutionary optimization of neural networks, wavelets and deep learning

Swarm intelligence for parameter tuning

Differential evolution for artifact removal

Genetic algorithms for EEG analysis

Particle swarm optimization in cardiovascular signals

Ant colony optimization for feature extraction

Evolutionary optimization in wearable devices

Multi-objective optimization for healthcare

Cultural algorithms for bioacoustic signals

Hybrid evolutionary algorithms in bioinformatics

Evolutionary techniques in biomedical imaging

Biogeography-based optimization in signal models

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closed (20 March 2026)



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About the Journal

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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