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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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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