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Bio-Inspired Algorithms

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Deadline for manuscript submissions:
closed (15 November 2024)

Message from the Guest Editors

Dear Colleagues,

In the field of applied informatics, the algorithmic-based procedural approach has indisputable advantages, but it also has several limitations with respect to hard problems without exact solutions due to incomplete or imperfect information and high computation demand.

It is frequently worth looking to biology in order to understand and model solutions for complex real-world problems. Nature is a great source of inspiration for optimization methods for solving large, indeterministic, inscrutable problems with a lack of information. Several efficient methods and method groups are based on the process of natural selection, the behavior of living creatures, physical phenomena, or, particularly, on the mechanisms of the brain.

For this Special Issue on "Bio-Inspired Algorithms", we seek original research papers about novel bio-inspired methods, analysis of already-existing techniques, or high-level practical applications from the field of computer science or any interdisciplinary field. We welcome manuscripts discussing evolutional, swarm-intelligence-based, or brain-inspired computing methods applied in any kind of research project.

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Editor-in-Chief

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Message from the Editor-in-Chief

Algorithms are the core of computational mathematics and computer science. The whole area has been considered from different perspectives, which has led to the development of several sub-communities. The aim is to bring together researchers and practitioners from different areas of computational mathematics and computer science and to offer a platform for interdisciplinary applications in different areas of science and technology. In this way, *Algorithms* may become a forum for the exchange of new stimulating ideas between the different sub-communities working in the area of algorithms and their applications and the presentation of high-quality novel algorithmic approaches.

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