Special Issue

Computation and Complex Data Processing Systems

Message from the Guest Editors

Complex networked systems, with interacting elements characterized by non-linearity, high dimensionality, and heterogeneity in the interconnected universe of today, which has become a challenge for various fields of science. This Special Issue aims to collect high-quality timely contributions at the interface between modern data acquisition systems and new computing frameworks that are used to build and deploy intelligent integrated systems. This requires expert knowledge and large-scale evaluations in various sub-domains that include, but are not limited to:

- Advanced data analysis and/or data visualization;
- Big data analysis within the multifractal analysis or fractional calculus methods;
- AI approaches in complex systems;
- Data-driven stochastic differential equations;
- Machine learning applications in complex data;
- Optimization by deep neural networks;
- Advanced computational imaging;
- Fractional dynamical models;
- Discrete, stochastic, and hybrid dynamics;
- Multifractal systems.

Guest Editors

Dr. Muhammad Arif

Prof. Dr. Guojun Wang

Prof. Dr. Muhammad Arfan Jaffar

Dr. Oana Geman

Deadline for manuscript submissions

closed (29 February 2024)

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.

Editor-in-Chief

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