Special Issue

New Advance of Statistical Analysis and Low Dimensional Topology

Message from the Guest Editors

A successful simulation and analysis in reduced-dimensional manifolds might depend on pre-processing of the original actual data, appropriate mapping, reconstruction techniques, and the feasibility of implementing a solution in the reduced space. The feasibility of simulation implementation in the reduced length can be dependent on preserving the original space's governing equations. To avoid additional term(s) which may result from mapping to low-dimensional topology, the original governing equations of a system should be approximated as closely as possible. Additionally, the resulting reduced system should preserve the stability of the original one. Reviews or new research studies on any techniques and latest algorithms in developing reduced models from the pre-processing of high-fidelity data through the implementation of analysis/simulation in the reduced manifold space to the reconstruction of the original variables' solution are welcome in this special issue.

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Deadline for manuscript submissions

closed (20 November 2024)

Mathematics

an Open Access Journal by MDPI

Impact Factor 2.2
CiteScore 4.6

mdpi.com/si/130854

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Message from the Editor-in-Chief

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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