Nonlinear Dynamics Research in Biomedicine

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Deadline for manuscript submissions:
closed (31 May 2024)

Message from the Guest Editors

Dear Colleagues,

The mathematical modelling of complex biological and physiological systems is a powerful tool for gaining a fundamental understanding of the processes of life. However, the construction of a comprehensive model requires both profound knowledge of the system and large amounts of experimental data. Here, the methods and approaches of nonlinear dynamics are of immense utility, allowing both the reduction of systems of equations and the investigation of possible modes of their functioning.

The aim of this Special Issue is to highlight papers that demonstrate the usefulness of nonlinear dynamics methods to the investigation of physiological systems' structure, the determination of key modules and control stages in biological systems, and the application of the acquired knowledge to the problems of biomedicine.

Special Issue

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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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