

Special Issue

Mathematical Models and Methods of Biological Systems

Message from the Guest Editors

In today's rapidly evolving world, advances in artificial intelligence, omics, medical imaging, wearable technologies, and digital health are transforming how we understand biological systems and address complex medical challenges. At the same time, the growing volume and complexity of biological and healthcare data demand more powerful, interpretable, and mathematically rigorous approaches. This Special Issue brings together mathematics, statistics, computational science, data science, biology, and medicine to develop next-generation methods for modeling, prediction, analysis, control, and optimization. We welcome research on mathematical and computational biology, biostatistics, systems biology, bioinformatics, epidemiological and disease modeling, multiscale and stochastic systems, biomedical data science, AI and machine learning in medicine, precision medicine, healthcare analytics, and optimization and control. Particular interest is given to approaches that bridge mechanistic modeling with data-driven intelligence to advance modern biological and medical research.

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About the Journal

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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