

Special Issue

Mathematical Modeling and Analysis in Biology and Medicine, 3rd Edition

Message from the Guest Editor

In recent decades, mathematical models have been actively used in various fields of technology and science, both in the natural and social sciences. An important domain of their application is the mathematical modeling of complex systems, and in particular living systems. Real experiments in some cases cannot be conducted on living beings due to the complexity of their organisms or due to the lack of necessary technology in some situations. Such experiments are often long-lasting, expensive, and problematic from an ethical viewpoint. Mathematical models can describe some characteristic properties of the phenomena under consideration and predict the possible scenarios for their course without the need to conduct real experiments... The purpose of this Special Issue is to publish qualitative papers, referring but not limited to the derivation of new and improvement of existing mathematical models, designed at various observation and representation scales, applicable in biology and medicine, their qualitative and quantitative analysis, as well as comparison of the results of the modeling with experimental and clinical data.

Guest Editor

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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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