



Stochastic Dynamics in Computational and Mathematical Biology

Guest Editors:

Dr. Tarunendu Mapper

QSP Immuno-Oncology, Bristol-Myers Squibb, New York, NY, USA

Dr. Daniel Bergman

Department of Biomedical Sciences, Grand Valley State University, Allendale, MI, USA

Deadline for manuscript submissions:

closed (30 April 2024)

Message from the Guest Editors

Dear Colleagues,

The Stochastic Dynamics in Computational and Mathematical Biology Special Issue of *Mathematics* aims to frame the issues raised in well-stirred approximation and data modeling and address them with improved stochastic approaches. This Special Issue combines new analytical and/or numerical mathematical methods and modeling algorithms alongside implementations of well-accepted, standard modeling technologies in emerging biological and applied science areas: immuno-science, infectious diseases, oncology, pharmacology and toxicology. Stochastic simulations have always been challenging over computational costs, hence algorithmic improvements should definitely be welcome along the way, and today it is very efficient in all aspects: temporal, spatio-temporal, and agent-based simulations. In biology and applied biological sciences, utilization of stochastic dynamics is highly emerging at an industrial scale. We seek papers that bring any of these aforesaid aspects, pushing the circle a little wider.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Francisco Chiclana
School of Computer Science and
Informatics, De Montfort
University, The Gateway,
Leicester LE1 9BH, UK

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), RePEc, and other databases.

Journal Rank: JCR - Q1 (Mathematics) / CiteScore - Q1 (General Mathematics)

Contact Us

Mathematics Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/mathematics
mathematics@mdpi.com
[X@MathematicsMDPI](https://twitter.com/MathematicsMDPI)