

Special Issue

Network Biology and Machine Learning in Bioinformatics

Message from the Guest Editors

Machine learning (ML) applications in bioinformatics and network biology are two rapidly growing fields that are having a significant impact on informing and inferring biological phenomena. By combining the power of network biology with the analytical tools provided by ML, researchers are becoming more knowledgeable in the organization and function of biological systems. The applications of ML and network science in biology are numerous, including the prediction of protein–protein interactions, the identification of disease-associated genes, and the development of new therapies for diseases. As these fields continue to advance, we can expect to see many more exciting applications in the future. This Special Issue aims to consolidate diverse usages of ML in the field of bioinformatics, with a particular focus on the implementation of network biology. We are seeking submissions on a variety of subjects, including (but not limited to) network biology, ML applications in bioinformatics, statistical inference in bioinformatics, protein–protein interaction networks, biological network visualization, network clustering, and multi-layered networks.

Guest Editors

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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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