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Mathematical Modelling and Machine Learning Methods for Bioinformatics and Data Science Applications, 2nd Edition

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Message from the Guest Editors

Statistics has historically been used to solve problems in data science, and mathematical methods and machine learning (ML) can also be extremely helpful, especially for building concise decision models, making fast approximations, predicting evolving phenomena based on known samples, and interpreting biomedical data. This Special Issue provides a platform for researchers to present their new and unpublished work, and to promote future studies in an emerging field. Topics include but are not limited to:

- Mathematical and numerical methods in understanding biological systems and biomolecular dynamics, e.g., from disease diffusion to intracellular pattern formation.
- Mathematical and computational models in therapy and diagnosis.
- Machine learning algorithms and models for bioinformation and bio-data understanding.
- Deep learning techniques and evolutionary computing in biomedical image and signal processing.
- Statistical and artificial intelligence-based models for complex biological data.
- Big data analytics on biomedical pattern recognition.
- Machine learning and artificial intelligence methods in data science with applications in other areas, etc.













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Message from the Editor-in-Chief

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