Special Issue

Network-Based Machine Learning Approaches in Bioinformatics

Message from the Guest Editor

The topics covered in this Special Issue are as follows:

- Network-based machine learning for biological systems;
- Entropy-based network analysis;
- Gene regulatory network (GRN) analysis using network-based learning;
- RNA interaction network;
- Protein–protein interaction (PPI) network;
- Network modeling and link prediction;
- Function prediction in biological networks;
- Pathway discovery through network analysis;
- Network dynamics and evolution;
- Graph data mining algorithms in bioinformatics;
- Network biology for complex diseases;
- Biomedical applications of network analysis.

This Special Issue aims to foster a comprehensive understanding of network-based machine learning approaches in bioinformatics, promoting the exchange of ideas, methodologies, and applications across the scientific community. It invites contributions from researchers and practitioners working at the forefront of this exciting and rapidly evolving field.

Guest Editor

Prof. Dr. Zhi-Ping Liu

Department of Biomedical Engineering, School of Control Science and Engineering, Shandong University, Jinan 250061, China

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Entropy
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
entropy@mdpi.com

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The concept of entropy is traditionally a quantity in physics that has to do with temperature. However, it is now clear that entropy is deeply related to information theory and the process of inference. As such, entropic techniques have found broad application in the sciences.

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Editor-in-Chief

Prof. Dr. Kevin H. Knuth
Department of Physics, University at Albany, 1400 Washington Avenue, Albany, NY 12222, USA

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