Network Modeling Analysis in Health Informatics and Bioinformatics

Editor-in-Chief: R. Alhajj; U.K. Wiil

NetMAHIB publishes original research articles and reviews reporting how graph theory, statistics, linear algebra and machine learning techniques can be effectively used for modelling and knowledge discovery in health informatics and bioinformatics. It aims at creating a synergy between these disciplines by providing a forum for disseminating the latest developments and research findings; hence results can be shared with readers across institutions, governments, researchers, students, and the industry. The journal emphasizes fundamental contributions on new methodologies, discoveries and techniques that have general applicability and which form the basis for network based modelling and knowledge discovery in health informatics and bioinformatics.

Topics covered by NetMAHIB include but are not limited to cutting-edge and novel findings on the latest trends and developments in network modelling and analysis for knowledge discovery in health informatics and bioinformatics, encompassing areas such as:

- Clinical and hospital human resource management and performance analysis
- Metabolic pathway and regulatory network modelling, evolution, simulation, analysis, control and engineering
- Controlled and optimized utilization of resources
- Modelling, simulation and evaluation of healthcare services
- Patient tracking and monitoring
- Spread and control of epidemics
- Drug design, disease diagnosis and control
- Signal pathways and cell control
- Modular biology and systems biology
- Computational biomedicine, genomics, proteomics, transcriptomics, metabolimics, sociogenomics
- Social network modelling and analysis in health informatics and bioinformatics
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