

Special Issue

AI and Network Science for Biological Systems and Human Health

Message from the Guest Editor

This Special Issue explores AI and network science integration to tackle key challenges in biology and healthcare, focusing on pattern discovery, emergent behavior prediction, and precision interventions across molecular to population scales. Topics include but are not limited to:

- Graph neural networks and topological data analysis for biological networks;
- AI-driven reconstruction of gene regulatory, signaling, and metabolic networks;
- Network medicine (disease module identification, drug repurposing, comorbidity);
- Multi-modal data integration (genomics, proteomics, imaging, clinical data);
- AI for patient stratification, biomarker discovery, treatment response prediction;
- Spreading dynamics and interventions for infectious diseases;
- Neural circuit and brain network modeling for neurological disorders;
- Explainable and scalable AI for large-scale biomedical networks;
- Applications in precision oncology, immunotherapy, aging, and population health.

By presenting innovative research across computational and biomedical fields, this Special Issue highlights the transformative potential of AI and network science to advance precise, predictive, and personalized human health.

Guest Editor

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You are invited to contribute a research article, a comprehensive review or a software paper for consideration and publication in Computers (ISSN 2073-431X). Computers is an international, peer-reviewed, open access journal which provides an advanced forum for computer sciences. Computers is published in open access format—research articles, reviews and other contents are released on the Internet immediately after acceptance. The scientific community and the public have unlimited and free access to the content as soon as it is published. We would be pleased to welcome you as one of our authors.

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