

Special Issue

New Insights into Machine Learning and Biomedicine: Updates and Directions, 2nd Edition

Message from the Guest Editors

The Special Issue aims to offer a current and in-depth perspective on the state of the art in machine learning and its biomedical applications. It encompasses recent developments and emerging trends in computational intelligence and machine learning methods applied to a range of biomedical challenges, including disease diagnosis, treatment planning, drug discovery, and medical image analysis. Contributions are welcome on a wide range of topics, including, but not limited to, the following: Machine learning algorithms and models for biomedical data analysis; Deep learning and neural networks in biomedical applications; Machine learning approaches in genomics and proteomics; Medical image analysis and computer vision techniques; Electronic health records and clinical decision support systems; Predictive modeling and precision medicine; Data integration and data mining in healthcare; Ethical, legal, and societal implications of machine learning in biomedicine; Integration of wearable device data into healthcare analytics; Cloud-based AI platforms for large-scale biomedical data processing; AI in public health surveillance and outbreak prediction.

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