

Special Issue

Machine Learning in Biomaterials, Biostructures and Bioinformatics

Message from the Guest Editors

Recent advances in bioprinting have provided a versatile technology platform for the rapid manufacturing of engineered biomaterials and smart structures. At the same time, there has been a surge in the use of machine learning (ML) to bioprinting-relevant research such as medical imaging and segmentation, optimization of bioinks or bioprinting processes, as well as in vitro parametric studies. Applying machine learning to design biomaterials, biofabrication, and biostructures is advantageous in terms of reducing experiment costs, developing customized designs, and optimizing materials and structures and biomechanical performance, yet there is still a significant knowledge gap preventing us from achieving the desired performance and functionality. This Special Issue aims to present a snapshot of the latest developments and current trends in this topic and address various novel applications to advance the current bioprinting technologies.

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