

Special Issue

Machine Learning and Deep Learning for Healthcare Applications and Advances

Message from the Guest Editors

Machine learning and deep learning are artificial intelligence techniques to solve complex problems and build intelligent systems. They have been increasingly used to develop computer-aided disease detection and computer-aided diagnosis systems to help healthcare professionals to make more accurate diagnoses, plan, and deliver better-quality and safer treatments, and ultimately lead to better healthcare outcomes. Other applications include personalized medicines, drug discovery, medical imaging diagnosis, outbreak prediction, mental health, physiological signal processing, health informatics, and smart health records. The primary aim of this Special Issue is to bring together original research presenting and discussing innovative efforts in applications and advances of machine learning and deep learning in healthcare. This Special Issue will cover various topics including but not limited to the development of new algorithms, development of innovative technologies, and application and deployment of machine learning and deep learning algorithms and technologies in various healthcare settings.

Guest Editors

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About the Journal

Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

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