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## Artificial Intelligence in Human Diseases: New Advances and Future Trends

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### Message from the Guest Editor

The COVID-19 pandemic has highlighted the importance of rapid action when a new disease emerges. Artificial intelligence (AI) facilitates the intelligent, rapid processing and analysis of huge and complex data. In AI, human intellectual processes are simulated by a computer-based system. Machine learning (ML) is a sub-discipline of AI. ML-based systems has the ability to learn from samples in data using statistical models without explicit programming. Deep learning (DL) is a subset of ML that leverages artificial neural networks.

AI has the ability to process the massive amount of medical and biological data that are generated daily. Without AI-based systems, this task could not be achieved due to sheer scale and complexity of it. By strategically applying ML and DL techniques, the healthcare industry and professionals can respond to the threat of emergent diseases. The strength of AI-based models has been exploited in a wide range of applications from public health to disease prediction to drug development. In this Special Issue, we seek new advances and future trends, recent research, and applications of human disease prediction and diagnosis using Artificial Intelligence.



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**Special** Issue



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