Big Data in Health Care Information Systems

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Message from the Guest Editors

The emergence and usage of high-throughput computing technologies and machines in the medical and biomedical domains have paved the way for the fast curation of and easy access to a vast biomedical dataset–big data. This big data is awash with a wealth of information that can be harnessed to revolutionize the healthcare information system–using various data science techniques such as deep learning, machine learning, federated learning, and continuous machine learning. Therefore, in this Special Issue, we aim to collect novel ideas on exploiting the big data available in healthcare domains to develop more robust and responsive information systems for healthcare practitioners that will enhance the delivery of quality and more effective treatments for patients. Original research articles and reviews are welcome.

- Machine learning in biomedicine;
- Data science to infectious disease control;
- Bioinformatics;
- Federated learning in the healthcare system;
- Medical informatics;
- Artificial intelligence and precision medicine;
- Application blockchain in EHR systems;
- Deep learning in biomedicine and bioinformatics;
- AI-based applications for digital healthcare systems.

Special Issue

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Message from the Editor-in-Chief

Big Data and Cognitive Computing (BDCC) is a scholarly online journal which provides a platform for big data theories with emerging technologies on smart clouds and exploring supercomputers with new cognitive applications. It is a peer-reviewed, open access journal that publishes high quality original articles, reviews and short communications. The primary aims of this journal are to encourage contributions of high quality scientific papers relating to data management and analytics in industry, such as manufacturing, healthcare, education, media and business, data mining, and cognitive science. There is no restriction on the maximum length of the papers.

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