



an Open Access Journal by MDPI

Big Data in Health Care Information Systems

Guest Editors:

Dr. Oluwafemi A. Sarumi

Department of Mathematics and Computer Science, University of Marburg, 35037 Marburg, Germany

Dr. Tobore Igbe

Center for Diabetes Technology Department of Psychiatry & Neurobehavioral Sciences, School of Medicine, University of Virginia, Charlottesville, VA 22903, USA

Dr. Halleluyah O. Aworinde

Computer Science Department, Bowen University, P.M.B 284 Iwo, Osun State, Nigeria

Deadline for manuscript submissions: closed (30 September 2023)

mdpi.com/si/164509

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.

