Data-Driven Healthcare Tasks: Tools, Frameworks, and Techniques

Guest Editors:

Dr. Kamran Sedig
Department of Computer Science, Faculty of Information and Media Studies, The University of Western Ontario, London, ON N6A 3K7, Canada

Dr. Daniel J. Lizotte
Computer Science|Epidemiology & Biostatistics, The University of Western Ontario, London, ON N6A 5B7, Canada

Deadline for manuscript submissions:
closed (31 July 2020)

Message from the Guest Editors

Technological advances have resulted in increased data collection, digitization, and storage of health data. This data is derived both from traditional sources as well as from novel patient-generated sources. Health data is often big data. It has high volume, low veracity, great variety, and high velocity. Health data, when used properly, can revolutionize healthcare activities. However, health data's impact is contingent on the availability of tools that can help derive meaning from it. To date, the healthcare field lags behind other fields in the development of computational tools that support complex healthcare tasks.

This Special Issue invites research papers (both experimental and conceptual) that advance our understanding of tools, frameworks, and techniques that improve and support the performance of complex, data-driven healthcare tasks and activities. Topics include are but are not limited to:

- Task analysis and design in healthcare;
- Human–data interaction involving health data;
- Machine learning for health data;
- Human-centered health data analytics;
- Visual analytics to improve healthcare;
- Interactive machine learning and explainable AI.

Special Issue

Editor-in-Chief

Prof. Dr. Jamal Jokar Arsanjani
Geoinformatics and Earth Observation Research Group, Department of Planning, Aalborg University Copenhagen, A.C. Meyers Vænge 15, DK-2450 Copenhagen, Denmark

Message from the Editor-in-Chief

Data is an open access journal that publishes scientific data in a reliable, citable, and accountable manner. Data grants the opportunity to formally share valuable data, for academic credit. It covers a wide range of disciplines in which data is generated so that published data is discoverable and available for wider re-use. The journal has highly accomplished scientists from a variety of disciplines on the editorial board. The publication emphasizes clarity, honesty, quality, and novelty and has a rigorous peer-review process. We strongly encourage you to share your data vision in Data.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.
High Visibility: indexed within Scopus, ESCI (Web of Science), Ei Compendex, dblp, Inspec, RePEc, and other databases.
Journal Rank: JCR - Q2 (*Multidisciplinary Sciences*) / CiteScore - Q2 (*Information Systems and Management*)

Contact Us