

## Special Issue

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

### 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.

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### Guest Editors

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### Deadline for manuscript submissions

closed (31 July 2020)



## Data

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## About the Journal

### 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.

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### Editor-in-Chief

Prof. Dr. Jamal Jokar Arsanjani

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