

IEEE JOURNAL OF BIOMEDICAL AND HEALTH INFORMATICS

J-BHI Special Issue on “Data analytics for Public Health Care”

Data analytics for Public Health Care has been a pressing challenge for years. Public Health Care organizations must be able to manage, analyze, and interpret data in order to identify the best ways to deliver high quality care. There are a wide range of tools for data analytics in health care, with clinical and operational applications to help organizations capture health data for advancing medical care. Health care data is collected from a variety of systems and devices, such as online patient portals, electronic medical records and health tracking devices. As a result, data exists in different formats, from clinical notes to medical images and at times, the data is unstructured. Data governance covers master data management, which ties master data in a single and reliable source of data to be used for care improvement and patient safety. Data analytics refers to analysis of the data in some way using quantitative and qualitative techniques to be able to explore for trends and patterns in the data. Health data analysts should have the advanced knowledge “to acquire, manage, analyze, interpret, and transform data into accurate, consistent, and timely information”.

This special issue aims to consolidate recent advances in data analytics for public health care, research in theory and applications. Pilot studies in analytics-enabled healthcare are especially welcome. Topics of interest include, but are not limited to, the following:

- Application of data analytics in public health care informatics
- Challenges using data analytics in public health care
- Future strategies in health informatics
- Advantages of data analytics in health care
- Significant impact of data analytics in public health care
- Powerful data analytics tools in healthcare
- Methods, techniques in data collecting for health care public health care
- Trends in data analytics in health care
- Using data analytics in public health care for safety purposes
- Importance of data analytics in public health care
- Effectiveness of data analytics in public health care
- What are the current use-cases data analytics in healthcare informatics?
- What is involved in the process of data analytics integration for these applications?
- Assessment and evaluation of data analytics in public health care
- Different modes of data analytics in public health care and their interactions

Guest Editors

Prof. Sabah Mohammed - Lakehead University, Canada, mohammed@lakeheadu.ca

Prof. Tai-hoon Kim - Beijing Jiaotong University, China, taihoonn@daum.net

Prof. Ruay-Shiung Chang - President, National Taipei University of Business Taipei, Taiwan, rschang@ntub.edu.tw

Prof. Carlos Ramos - ISEP, Polytechnic of Porto, CSR@isep.ipp.pt

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