Special Issue

Applications of Big Data Mining in Healthcare

Message from the Guest Editors

For medical informatics needs, AI technologies including computer vision, natural language processing, machine learning, data mining, and knowledge representation have recently made significant advances in processing medical and healthcare vision or text data and enabling decision makers to better interpret and utilize data. This Special Issue aims at leveraging AI to improve healthcare delivery and management, and to promote fruitful collaborations between different disciplines, including applied mathematics, computer science, medical informatics, computational biology, clinical medicine, and healthcare research. Topics of interest include, but are not limited to:

- Knowledge acquisition, cleaning and assembly from biomedical data silos;
- Knowledge analysis and discovery from healthcare data;
- Medical data query processing and computing;
- Multimodal knowledge representation and fusion;
- Biomedical data management;
- Healthcare planning with big data evaluation and assessment;
- Data mining and machine learning algorithms for clinical solutions;
- Data-driven medical decision support system design;
- Electronic medical record data security and privacy.

Guest Editors

Dr. Dagang Li

Faculty of Innovation Engineering, Macau University of Science and Technology, Macau 999078, China

Dr. Ying Shen

School of Intelligent Systems Engineering, Sun Yat-Sen University, Guangzhou 510275, China

Deadline for manuscript submissions

closed (15 May 2024)

About the Journal

Message from the Editor-in-Chief

Addressing the environmental and public health challenges requires engagement and collaboration among clinicians and public health researchers. Scientific discoveries and advances in this research field play a critical role in providing a rational basis for informed decision-making toward control and prevention of human diseases, especially the illnesses that are induced from environmental exposure to health hazards.

IJERPH provides a forum for discussion of discoveries and knowledge in these multidisciplinary fields. Please consider publishing your research in this high quality peer-reviewed journal.

Editor-in-Chief

Prof. Dr. Paul B. Tchounwou
RCMI Center for Urban Health Disparities Research and Innovation,
Richard N. Dixon Research Center, Morgan State University, Baltimore,
MD 21251, USA

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