



## Applications of Big Data Mining in Healthcare

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)**

### Message from the Guest Editors

Dear Colleagues,

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.





an Open Access Journal by MDPI

## Editor-in-Chief

**Prof. Dr. Paul B. Tchounwou**

RCMI Center for Urban Health  
Disparities Research and  
Innovation, Richard Dixon  
Research Center, Morgan State  
University, 1700 E. Cold Spring  
Lane, Baltimore, MD 21251, USA

## Message from the Editor-in-Chief

Addressing the environmental and public health challenges requires engagement and collaboration among clinicians and public health researchers. Discovery and advances in this research field play a critical role in providing a scientific basis for 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, open access journal.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, PubMed, MEDLINE, PMC, Embase, GEOBASE, CAPus / SciFinder, and other databases.

**Journal Rank:** CiteScore - Q1 (*Public Health, Environmental and Occupational Health*)

## Contact Us

---

*International Journal of  
Environmental Research and Public  
Health* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/ijerph](http://mdpi.com/journal/ijerph)  
[ijerph@mdpi.com](mailto:ijerph@mdpi.com)  
[X@IJERPH\\_MDPI](https://twitter.com/IJERPH_MDPI)