Call for Papers

Special Issue on

The Development and Application of Medical Data Processing and Security Sharing Technology

Medical data is characterized by volume, velocity, variety and value (4V). With the rapid development of information technology, data mining makes medical data become an information asset with stronger decision-making power, insight and discovery and process optimization capability. Moreover, it is an important force to promote the development of medical research.

However, while medical big data is fully utilized, great risks of privacy disclosure are exposed. Personal medical data is undoubtedly the most intimate of all data, the public is becoming more and more aware of the protection of their privacy as the frequent incidents of privacy disclosure in recent years. Therefore, data availability and data security must be considered in data mining and analysis. The traditional medical data tools cannot meet the new requirements, which poses a greater challenge to the development and design of medical data processing methods and models to make better use of and protect medical data.

This topic aims to introduce the latest research of medical data mining and application in the process of medical informatization, such as new methods of medical data analysis, new applications of artificial intelligence in the intelligent medical treatment, safer medical data sharing platforms, and new medical data privacy protection programs. The main purpose is to understand the most cutting-edge medical data research trends through this thematic discussion, master the core issues facing the medical data, provide the new ideas to mine the medical data efficiently and safely, and provide new technical support for further promoting the intelligent and the personalized medicine.

Scope:

Topics of interest for this special issue include, but are not limited to:

- Advanced and innovative medical data collection and sharing platforms, models and related algorithms
Promotion of personalized medicine, data collection and analysis in the field of medical and healthcare

Current status of new medical data applications and medical big data application scenarios

Advanced algorithms and applications in the field of bioinformatics

Advanced and innovative analytical methods based on biomedical data and diseases

Electronic medical record data information mining and privacy security

Personal clinical data efficient utilization and privacy security protection

Analysis and application of bioinformatics data based on privacy security

Methods (algorithms) and strategies for privacy protection of medical health data

Security and confidentiality of medical data based on multi-type platforms

Algorithm and application of artificial intelligence and deep learning in medical big data

Schedule:

Paper submission due: May 31, 2020
First notification: July 31, 2020
Revision: Aug. 30, 2020
Final decision: Oct. 30, 2020
Publication date: in 2020

Submission Instructions:

Authors are encouraged to discuss with a guest editor to determine the suitability of their intended submissions. Before submission authors should carefully read over the journal’s Author Guidelines, which are located at http://www.aspbs.com/jmihi/inst-auth_jmihi.htm. Prospective authors should submit an electronic copy of their complete manuscript through the journal Manuscript Tracking System at http://mstracker.com/submit1.php?jc=jmihi, according to the following timetable: Original high-quality contributions that are not yet published or that are not currently under review by other journals or peer-reviewed conferences are sought. Papers will be peer-reviewed by independent reviewers and selected based on originality, scientific quality and relevance to this Special Issue. The journal editors will make final decisions about the acceptance of the papers.

Note: The publisher has implemented with immediate effect that all papers submission must provide its respective plagiarism report on the value of similarity index (to be less than 15%): without this, no papers will be processed

Manuscript-Processing Fees:

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**Guest Editors**

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