



Journal of Medical Imaging and Health Informatics (JMIHI): 2015's SCI-IF 0.877

A medium to disseminate novel experimental and theoretical research results in the field of biomedicine, biology, clinical, rehabilitation engineering, medical image processing, bio-computing, D2H2, and other health related areas.

URL: www.aspbs.com/jmihi

Call for Papers

Special issue on

Big Data Technology and Information Management in Medical and Health Informatics

We invite authors to submit articles on the applications of operational research, big data technology, health informatics, theory of computation in knowledge discovery, data integration and intelligent decision of management, as well as the advance in the medical and health information management industry.

In our modern world, health informatics is the inevitable development trend of the medical industry. From the individual patient information query to the allocation of thousands of resources and staff, all the information operations involved is a part of the process of informatics. In the past few decades, the computing hardware and software has continued to grow exponentially. Furthermore, breakthrough in operational research and arrival of the era of big data has helped us to find a better solution for human information needs. However, there still are some challenging problems for providing a better service. For most given problems, multi-objective optimization and data mining can provide the optimal solution. And machine learning such as artificial neural network, deep learning, evolutionary algorithm, and genetic algorithm are some of the other well-established techniques we can explore for solutions generation. In the medical industry, using these algorithms can help hospital finds the potential factors which affect patients' health more accurately and improve diagnosis. It can also identify health trends that bridge the gaps among fragments of seemingly unrelated information. In addition, the process of information management also promotes the development of bioinformatics, including membrane computing, gene expressions, genetic computing, etc. These new technologies can offer much higher quality and personalized service for patients.

This special issue focuses on the applications for problems in the medical domain, covering the solution for special problems or finding the potential correlation between

diseases and some factors that seem unrelated. The main goal of this special issue is to provide the overview of the current state-of-the-art advances in health informatics.

Potential topics include, but are not limited to:

- Health and medical system analysis, operation research, and environmental information management.
- Mobile applications to provide online medical consultants including diagnosis, therapy planning, and treatment follow-ups, etc.
- Computer methods in medical and health diagnostics.
- Big data techniques towards medical domain such as collection, analysis, learning, processing of widely used medical data through wearable devices.
- Health informatics and modeling biological systems.
- Management of health and environmental data to assist with clinical decision-making and therapy guidance.

Submission Guideline: Authors must mention in their cover letter for each SI manuscript that the particular manuscript is for the theme and name of Guest Editors of SI consideration so that the Guest Editors can be notified separately. Guidelines for preparation of the manuscripts are available at the journal website

http://www.aspbs.com/jmihi/inst-auth_jmihi.htm

READ THIS NOTE BEFORE SUBMISSION: 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:

Manuscript Due	31 August 2017
First Round of Reviews	30 September 2017
Second Round of Reviews	31 October 2017
Revised manuscript due	30 November 2017
Camera-ready version	01 December 2017
Publication Date	01 April 2018

Guest Editors

1	Asst Prof Kelvin KL Wong School of Medicine, The University of Western Sydney, Australia. E-mail: kelvin.wong@westernsydney.edu.au
2	Asst Prof Defeng Wang Department of Imaging and Interventional Radiology, The Chinese University of Hong Kong, Hong Kong. E-mail: dfwang@cuhk.edu.hk
3	Assoc Prof Simon Fong Department of Computer and Information Science, University of Macau, Macau. E-mail: ccfong@umac.mo

Manuscript-Processing Fees: All new manuscripts submitted to this journal will be subjected to a Manuscript-Processing Fees. Research article publishing is not without occurring costs and the costs have been steadily increasing. To defray part of the publication cost, the journal will charge manuscript-processing fees, to be paid by the authors or their affiliated research institutions. The publication fee will be used to defray part of the occurring expenses associated with manuscript processing, editorial work flow, typesetting, proofreading, printing, online-hosting, and archiving. Authors or their affiliated research institutions are required to pay **US\$1080** for their articles for a special issue article from all Countries. The authors will receive the PDF version of their research papers in final form. When submitting a manuscript through online, it will be processed with an understanding that the corresponding authors fully agree to pay all manuscript-processing fees upon acceptance. The author who submits the manuscript to the journal is fully responsible for the manuscript-processing fees. Accepted peer-reviewed manuscripts will not be processed and forwarded to production until all fees are paid in full to the publisher. Publisher will issue an invoice of manuscript-processing fees after a manuscript has been accepted for publication. Corresponding author will be asked to submit a signed Copyright Transfer Agreement (CTA) along with manuscript processing fees.