



IJCIS: Call for Papers Special Issue 'Computational Health Informatics'



Guest Editors:

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Aims and Scope

The International Journal of Computational Intelligence Systems (IJCIS) will publish a special issue on Computational Health Informatics, which will mainly be focusing on Computational Intelligence.

Information technology is rapidly developing and has become a driving force in the field of healthcare. For instance, the wide use of computational health information technology in recent years contributes to saving much time and energy dealing with complex healthcare data. Therefore, the improvement of healthcare efficiency and level has attracted researchers' and practitioners' attention. Recently, researchers have shown interest in data informatics in the field of health industry. In this context, we especially expect to explore techniques, opportunities and challenges of Computational Health Informatics focusing on Computational Intelligence.

Computational Health Informatics, a multidisciplinary field arising in recent years, combines multiple techniques and sciences such as computer science, statistics, information technology and biology (Fang et al., 2016). In comparison with traditional ways of managing healthcare data, Computational Health Informatics could reach wide ranges of population, various application areas and conduce to increased efficiency of data processing. In practical application, computational techniques such as knowledge graphs, computer vision, natural language processing and other artificial intelligence techniques can be used in healthcare datasets and hospital medical data analysis.

The aim of this special issue is to present the latest developments in health informatics theory and applications for solving the increase in and complexity of real-world health issues. Furthermore, it will discuss future development directions for Computational Health Informatics. Papers contributing in developments in fundamentals, approaches, methodologies, and applications in Computational Health Informatics are encouraged to submit. Finally, as Computational Health Informatics is multidisciplinary, discussions in this area in different perspectives, cross-disciplinary and interdisciplinary, are appreciated.



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Main topics and quality control

Papers in the field of Computational Health Informatics on (but not limited to) the following topics are invited for submission:

- Big Data Analytics
- AI in healthcare
- Medical Supporting Services
- Machine Learning
- Epidemic in Public Health
- Privacy and Security
- Human-Machine interfaces
- Domestic and international Public Health Policies and Regulations
- Big Data in Health information Services
- Computational Health Information Behavior
- Health Information Needs
- Internet of Things (IoT) applications
- Decision Support Systems
- Personalized e-health
- Telemedicine
- Healthcare Knowledge Management
- Health Information System

This special issue is dedicated to a set of best papers in the field of Computational Health Informatics. Full papers will be subject to a strict review procedure for final selection to this special issue based on the following criteria:

1. Quality and originality in theory and methodology of the special issue.
2. Relevance to the topic of the special issue.
3. Application orientation which exhibits originality.
4. If there is an implementation, the details of the implementation must be provided.
5. Extended papers must contain at least 40% new material (qualitative) relative to the conference paper.

Important Dates

Submission of papers:	30 September 2020
Notification of review results:	30 November 2020
Submission of revised papers:	30 December 2020
Notification of final review results:	30 January 2021



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Submit Your Paper

All papers have to be submitted via the Editorial Manager online submission and peer review system. Instructions will be provided on screen and you will be stepwise guided through the process of uploading all the relevant article details and files associated with your submission. All manuscripts must be in the English language.

To access the online submission site for the journal, please visit <https://www.editorialmanager.com/ij-cis/default.aspx>. Note that if this is the first time that you submit to the International Journal of Computational Intelligence Systems, you need to register as a user of the system first.

NOTE: Before submitting your paper, please make sure to review the journal's [Author Guidelines](#) first.

Introduction of the guest editor(s)

Feicheng Ma is the director of Big Data Institute at Wuhan University and member of several domestic and international famous academic associations. His research interests lie in the areas of Data Analysis and Management, Knowledge Network, Knowledge Organization, Digital Information Resource Management and Digital Economy, Information Theory Method. As an expert on Information Management and Information Science, he serves as an editorial member of many famous domestic and international journals. Besides, he also serves as the chief scientist for over 20 national or ministerial/provincial projects. In addition, he has published more than 10 academic monographs, more than 200 papers in key academic journals, and received over 20 awards.

Qingxing Dong was born in 1988. He received a PhD in Management Science & Engineering from Northeastern University, China, in 2014. He is currently an Associate Professor and Head of Department of Information Management and Information Systems at School of Information Management in Central China Normal University, Wuhan, China. His research area includes Decision Science, Knowledge Mining and Computational Social Science. His articles have been published in such outlets as European Journal of Operational Research, International Journal of Production Economics, Information Sciences, etc.

References

Fang R, Pouyanfar S, Yang Y, Chen SC, Iyengar SS. (2016). Computational health informatics in the big data age: a survey. *ACM Computing Surveys*, 49 (1), 1–36.