JAIMS: Call for Papers Special Issue
"Medical Knowledge Graphs"

Guest Editors

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Aims and Scope

This special issues is interested in knowledge graphs in the context of medical Artificial Intelligence (AI). It will will focus on advanced technologies in medical knowledge construction and application, as well as the key issues concerning medical knowledge graph updates, self-learning, quality control and validation.

Main topics and quality control

The topics of interests include (but are not limited to):

1. Medical knowledge graph construction, e.g. NLP-based entity and relationship extraction, disease-specific knowledge graph construction, etc.

2. Knowledge representation and inference technology

3. Knowledge graph storage and semantic computing

4. Knowledge driven clinical decision support systems

5. Medical knowledge graph update and self-learning

6. Medical knowledge graph quality control and validation

7. Crowd sourcing for medical knowledge graph development

8. Data-driven and knowledge-driven medical AI technology

Important Dates

Submission of papers:	**28 February 2021**
Notification of review results:	30 April 2021
Submission of revised papers:	31 May 2021
Notification of final review results:	30 June 2021

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Submit your paper

All papers must 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/jaims/default.aspx. Note that if this is the first time that you submit to the *Journal of Artificial Intelligence for Medical Sciences*, 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)

Professor Zhisheng Huang is a tenured senior researcher at Computer Science Department of VU University Amsterdam, the Netherlands. He is also a full professor at School of Computer Science and Engineering, Wuhan University of Science and Technology, China. His research interests include Semantic Web technology, knowledge graphs, and ontology engineering, Artificial Intelligence for medicine, and medical informatics. Prof. Huang has published about 300 papers in journals/conferences/workshops, served as a member of the programme/organising committee for over 200 international conferences/workshops. He is the Editor-in-Chief of *Journal of Artificial Intelligence for Medical Sciences*.

Professor Jiao Li serves as the Chief of the Center for Medical Informatics Innovation, Institute of Medical Information/Library, Chinese Academy of Medical Sciences/Peking Union Medical College. Dr. Li received her Ph.D. degree from the Department of Computer Science and Technology, Tsinghua University. She completed her postdoctoral training in the National Center of Biotechnology and Information, the U.S. National Institutes of Health (NCBI/NLM/NIH). Dr. Jiao Li's research interests include medical artificial intelligence, medical data mining, and knowledge engineering. As a principal investigator, she has conducted studies funded by the National Key Research and Development Program of China, National Natural Science Foundation of China and others. She developed computational methods for Chinese electronic medical record processing, disease-specific phenotype identification, clinical guideline representation, large-scale ontology construction towards precision medicine, etc. She has published more than 70 peer-reviewed articles and obtained 4 patents for invention. She has launched AI-empowered decision support system validation via collaboration with the clinical and health management professionals.