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SPECIAL ISSUE ON

Knowledge Graph in Medical Information System

Knowledge graphs have been widely adopted, in large part owing to their schema-less nature. Currently, the knowledge graph is the most modern knowledge representation model, which has been utilized in critical knowledge-based systems. Medical Information System includes many parts of management, such as Inpatient/outpatient, Hospital assay, Medical image, pharmaceutical administration, healthcare, as well as medical device management. How to carry out knowledge discovery and data mining plays a vital role in the Medical Information System. However, the knowledge graph application to Medical Information System is now booming. Due to the power of knowledge graphs, we can perform with ease on business intelligence, search, publishing, content management from big data knowledge discovery and data mining. Several challenges need to be addressed before we can enjoy the benefits of the advanced Knowledge Graph. For example, these problems in the Medical Information System include knowledge modeling and reasoning, the knowledge analytics based on machine learning, and Healthcare monitoring. This Special Issue will bring together leading researchers and algorithms developers to explore recent advanced technologies for Knowledge Graph, especially in the modeling and reasoning field, in terms of system, service, and application.

Relevant topics of interest to this special section include (but are not limited to):

- Transfer learning for Knowledge Graph based Medical Information System
- Deep-transfer learning for Knowledge Graph based Medical Information System
- Highly interpretable intelligent system for Knowledge Graph based Medical Information System
- Artificial intelligence algorithm design and application for Knowledge Graph based Medical Information System
- Advanced security and privacy for Knowledge Graph based Medical Information System
- Tools and benchmarks for Knowledge Graph based Medical Information System
- Online and offline Knowledge Graph applications for Medical Information System
- Different modalities Knowledge Graph Integration and unification for Medical Information System
Important Dates

- Manuscript submission deadline: Sep. 20, 2020
- Notification of acceptance: Nov. 20, 2020
- Submission of final revised paper: Dec. 20, 2020
- Publication of special issue (tentative): Feb. 25, 2021

Guest Editors

Prof. Yihai Chen, Shanghai University, China, yhchen@shu.edu.cn
Dr. Yushen Xu, Xidian University, China, yxsu@xidian.edu.cn

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