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Call for Papers

SPECIAL ISSUE ON

Real World Data (RWD) Study Using Artificial Intelligence (AI) Technology

Real World Data (RWD) is all relevant data related to the prevention, diagnosis and treatment of human diseases, including health management data, disease diagnosis and treatment data, medical service process data, etc., such as Electronic Medical Records, Electronic Health Records, Claims Data, etc. With the rapid development of Artificial Intelligence (AI) technology, using RWD to seek for real world evidences for the prevention, diagnosis and treatment of human diseases has been becoming a consensus on the data science community at home and abroad.

This special issue aims to introduce AI technologies, e.g., feature extraction, feature reduction, unsupervised learning, semi-supervised learning, supervised learning, deep learning and transfer learning, etc. for RWD studies. The main purpose is to review the new progress and achievements of AI technologies for RWD studies in recent years.

Topics of interest for this special issue include, but are not limited to:
• Artificial Intelligence (AI) technologies for feature extraction on RWD
• Artificial Intelligence (AI) technologies for feature reduction on RWD
• Artificial Intelligence (AI) technologies for clustering on RWD
• Artificial Intelligence (AI) technologies for regression on RWD
- Artificial Intelligence (AI) technologies for classification on RWD

Schedule:
Submission Deadline: June 2020
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Selected Publications:
1. Pengjiang Qian, Yangyang Chen, Jung-Wen Kuo, Yu-Dong Zhang, Yizhang Jiang, et. al., mDixon-based synthetic CT generation for PET attenuation correction on abdomen and pelvis jointly using transfer fuzzy clustering and active learning-based classification, IEEE Transactions on Medical Imaging, 2019, DOI: 10.1109/TMI.2019.2935916
2. Pengjiang Qian(*), Chen Xi, Min Xu, Yizhang Jiang, Kuan-Hao Su, Shitong Wang, and Raymond F. Muzic, Jr., SSC-EKE: semi-supervised classification with extensive knowledge exploitation, Information Sciences, 2018, 422: 51-76.
10. Yu-Dong Zhang, Yuxiu Sui, Junding Sun, Guihu Zhao, Pengjiang Qian(*), Cat swarm optimization applied to alcohol use disorder identification, Multimedia Tools and Applications, 2018, 77: 22875-22896.