BIDS Monthly Seminar Series Presents Dr. Hua Xu

Title: "Practicing natural language processing in healthcare"

Abstract:

Electronic Health Records (EHRs) contain abundant free text data that are valuable for research and operation in the medical domain. Natural Language Processing (NLP) technologies have shown great promise in unlocking information in clinical texts; however, many challenges still exist when developing and implementing NLP technologies for healthcare applications. The talk will focus on innovative method development in clinical NLP, including recent advancements in Large Language Models (LLMs), along with lessons learned from building NLP-based health applications.

Speaker:

Hua Xu, PhD, FACMI

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Bio:

Dr. Hua Xu is a Professor at the Section of Biomedical Informatics and Data Science, Yale School of Medicine. He received his Ph.D. in Biomedical Informatics from Columbia University. His primary research interests include biomedical natural language processing (NLP) and data mining, as well as their applications in secondary use of electronic health records data for clinical and translational research. His research is funded by multiple agencies (i.e., NLM, NCI, NIGMS, NIA, AHA, and CPRIT), and methods/tools developed in his lab have been top ranked in a number of biomedical NLP shared tasks and widely used to support diverse biomedical applications. He served as the Chair of American Medical Informatics Association (AMIA) NLP Working Group and now leads the Observational Health Data Sciences and Informatics (OHDSI) NLP Working Group. Dr. Xu has been elected as a fellow of the American College of Medical Informatics since 2014.