UTHealth
The University of Texas Health Science Center at Houston
School of Biomedical Informatics

DSICCR Tuesday Seminar Series

March 28th , 12pm-1pm, Webcast Click Here

Advances of Natural Language Processing for Computational Health Sciences

Rui Zhang, PhD, FAMIA

Founding Chief of Division of Computational Health Sciences
Associate Professor, Department of Surgery
University of Minnesota

A large amount of information in biomedicine and healthcare is recorded as free text, such as clinical notes, and biomedical literature. Natural language processing (NLP) techniques provide opportunities for secondary analysis of clinical narratives and literature-based discovery. In a series of phased projects, NLP methods were developed to extract various information from clinical notes, such as adverse events associated with supplement use, cancer phenotyping, social determinants of health, etc. NLP techniques were also developed for discovering novel knowledge from biomedical literature, such as effects of dietary supplements, drug-supplement interactions, drug repurposing for COVID-19. Specifically, we develop a framework from the development of the first comprehensive knowledge base for dietary supplements (iDISK), to discovery of efficacy and safety from dietary supplements, and mining information from electronic health records.

Tuesday, March 28th , 2023. 12p – 1p. Webcast

Contact: Xiaohong.Bi@uth.tmc.edu

#SBMIseminar