

# Personalized Health Knowledge Graphs

Integrating EHRs with open knowledge bases to provide personalized healthcare recommendation

Longxiang Shi and Shijian Li

## **Abstract:**

With the development of information science, we witnessed a continuous increase of publicly available health related knowledge sources. Meanwhile, the electronization of health records also create a huge amount of medical data. As a consequence, health-related data and content are overloading with various information. How to utilize those data to provide personalized health content recommendations became a necessary. In our work, we integrate the human's Electronic Health Records with open medical knowledge bases using semantic web techniques and build a personalized health knowledge graphs to provide personalized health content recommendation.