

CS Departmental Seminar
Tuesday, November 20, EC 205 at 3:30-4:30pm

Title: Knowledge Representation and Its Application in Healthcare Information Systems

Knowledge representation and reasoning (KR) has been a key element in developing intelligent systems. We will apply KR to address a challenge in building healthcare information systems. The availability of huge amount of medical knowledge and the patient information make it possible to build a software system to assist physicians or patients with the decisions obtainable from the medical knowledge and patient information. However, we still do not have good systems for patients with multiple diseases. In this talk we will show how Answer Set Programming, a dominant KR paradigm, is used to address the challenge.



Dr. Yuanlin Zhang is an Associate Professor of Computer Science. His research areas are in declarative programming, knowledge representation and reasoning and their applications in areas including healthcare and education. His work has been published in premier journals and conferences in Artificial Intelligence (AI) including Artificial Intelligence journal, AAAI and IJCAI. He also won some best paper awards. He has served on program committees of major AI conferences.