

## EINLADUNG

- Zeit:** Montag, 25.04.2016, 14:00 Uhr
- Ort:** Lehrstuhl Informatik 5, Seminar room 6202 (2nd floor), Gebäude E2, Ahornstr. 55
- Referent:** Dr. Schneider, University of Pittsburgh Biomedical Informatics Department, US
- Titel:** Acquiring and representing drug-drug interaction knowledge and evidence

### Abstract:

Limitations in the information available to clinicians are a contributing factor to the many thousands of preventable medication errors that occur each year. Current knowledge sources about potential drug-drug interactions (PDDIs) often fail to provide essential management recommendations and differ significantly in their coverage, accuracy, and agreement. To address this, we seek to more efficiently acquire and represent PDDIs knowledge claims and their supporting evidence in a standard computable format.

In this talk we will present work in progress on both representation (a data model) and acquisition (an evidence curation pipeline). Our data model has a reusable generic layer, provided by the Micropublications Ontology, as well as a domain-specific layer represented using the new Drug-drug Interaction and Drug-drug Interaction Evidence Ontology (DIDEO). We will discuss the motivation for our approach and possible implications for representing evidence from other biomedical domains. On the curation side, we will describe how our research team is hand-extracting knowledge claims and evidence from the primary research literature, case reports, and FDA-approved drug labels. This work has implications for ontology development, the design of curation pipelines, and for improving medication safety.

Es laden ein: Die Dozenten der Informatik