Zusammenfassung:
Open Information Extraction has been an active area of research over the last decade. Over the years projects like WebKB, KnowItAll, TextRunner, NELL and REVERB have to some extend successfully extracted factual information from large freetext corpora on the Web. While more recent projects reach an impressive size and also try to create more structured knowledge bases, there is still a potential for improving the results by combining the results of the different projects into a comprehensive knowledge base.

In the context of a Google faculty grant we are investigating ways to integrate the results of different open information extraction projects into a consistent knowledge base using DBpedia as a nucleus. In my presentation I will explain the vision of our research, some basic matching techniques that combine logic and probabilistic inference and present current results on matching facts from open information extraction projects to DBpedia by creating and validating new statements about DBpedia entities.

Kurzlebenslauf:
Heiner Stuckenschmidt is full professor for Artificial Intelligence at the University of Mannheim. Together with Chris Bizer he is heading the Data- and Web Science Research Group. The group is performing research on various topics around the extraction, integration and use of Web Data. The group is maintaining and extending the DBpedia knowledge base and features subgroups in the area of Natural Language Processing, Knowledge Representation and Reasoning, Data Mining and Linked Open Data. Heiner has mostly worked on using ontologies and logical reasoning to support intelligent information processing on the web. He is known in the Semantic Web Community for his work on ontology matching and distributed knowledge representation. More recently, he became interested in the combination of NLP and reasoning as well as in application of text analysis in political science and humanities. More information about Heiner and the DWS group can be found at: dws.informatik.uni-mannheim.de

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