

# DIPLOMA THESIS ASSIGNMENT

Student: **Bc. Jan Pichl**

Study programme: Open Informatics  
Specialisation: Artificial Intelligence

Title of Diploma Thesis: **Enhancing Question Answering with Structured Database Queries**

## Guidelines:

1. Research existing approaches of generating queries or matching subgraphs in structured RDF databases from natural language questions.
2. Propose your own approach of query generation, based on successful state-of-art algorithms and extending them.
3. Implement proposed algorithm within the YodaQA system.
4. Benchmark the accuracy of the algorithm and its impact to the accuracy of the end-to-end YodaQA pipeline.
5. Discuss obtained results and compare them with state-of-art.

## Bibliography/Sources:


BAST, Hannah a Elmar HAUSSMANN. More Accurate Question Answering on Freebase. University of Freiburg. Available at: <http://ad-publications.informatik.uni-freiburg.de/freebase-qa.pdf>

YIH, Wen-tau, Ming-Wei CHANG, Xiaodong HE a Jianfeng GAO.. Semantic Parsing via Staged Query Graph Generation: Question Answering with Knowledge Base. Microsoft Research. Available at: <http://research.microsoft.com/pubs/244749/ACL15-STAGG.pdf>


and citations in these papers.

Diploma Thesis Supervisor: Mgr. Petr Baudiš

Valid until the end of the summer semester of academic year 2016/2017

  
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