

Lecture & Exercise

“Statistical Methods in Natural Language Processing”

SS 2018

Type	Schedule / Room	Start	Instructor
V4	Mo 10 ¹⁵ -11 ⁴⁵ AH VI Di 10 ¹⁵ -11 ⁴⁵ AH I Mi 11 ⁴⁵ -13 ¹⁵ AH VI		Prof. Dr.-Ing. H. Ney Parnia Bahar Weiyue Wang
Ü2	Mi 13 ⁴⁵ -15 ¹⁵ AH II		

Content:

Automatic methods for natural language processing play an important role in any human-machine interaction applications and other tasks in artificial intelligence. This course deals with statistical methods that have been found most successful for many tasks in natural language processing. The course covers the following topics:

- text and document classification including information retrieval
- information extraction including tagging and semantic annotation
- syntactic analysis and parsing
- language modeling
- machine translation of natural language
 - alignment and lexicon models
 - training methods
 - generation process
 - grammar-based approaches

Assignment:

Applied Computer Science or Field of Specialization

Requirements:

- Bachelor or 60 ECTS

References:

- C. D. Manning, H. Schütze: “Foundations of Statistical Natural Language Processing”, MIT Press, Cambridge, MA, 1999.

Others:

The Lehrstuhl also offers a seminar and a practical course. During both activities topics from speech and image object recognition are treated.

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