

Orientation

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WP1 Lex Synt Sem: Structured Prediction and Domain Adaptation

WiSe 2017-2018

2017-10-17

- Course Information
- Next week: introduction to structured prediction and domain adaptation

Course information

Contents and goals of this course

This course will look at structured prediction from 2 perspectives:

- **Tasks**

- What sort of tasks and data sets are there?

- **Machine learning approaches**

- Basic concepts in deep learning
- Understanding the challenges of the theoretical modeling of structured outputs
- Additional focus on **domain adaptation**

Seminar:

- **Background knowledge**

- Basic machine learning, learning models, feature engineering
- Optional background knowledge: deep learning approaches, particularly tagging and sequence to sequence

- **Basic areas covered**

- Basics of structured prediction with labels (POS tagging, syntactic parsing, semantic role labeling) and words (machine translation, summarization, dialogue, etc)
- Additionally: domain adaptation

Time Plan:

- **Paper list up Wednesday evening**
 - On webpage (search for my home page)
 - Email me with requests, please include several papers
 - First two Referats in three weeks (November 7th)

Course Requirements

- To pass this course ...
 - Regular attendance
 - 25 minute English presentation (some organizers don't speak German), 20 minutes of discussion
 - Hausarbeit of 6 pages, due 3 weeks after the presentation
 - Please turn in slides and Hausarbeit together

Questions?

Any questions about logistics, etc.? Next week I will introduce structured prediction and domain adaptation.

Thank you for your attention.