

INF 5830, 2015, Curriculum

Exercises

All exercises both obligatory and weekly including published solutions, see <http://www.uio.no/studier/emner/matnat/ifi/INF5830/h15/exercises/>

Presentations

All slides from the lectures

Readings

Bird, Klein, Loper, *Natural Language Processing with Python*

Ch. 1

Ch. 2: sec 2.1-2.2

Ch. 3

Ch. 5: sec 5.1-5.3

Ch. 6: all except sec 6.4

Ch. 7: sec 7.1, 7.5, 7.6

Dowty, David: "*Thematic Proto-Roles and Argument Selection*" in *Language Vol. 67, No. 3, 1991*. Sections 1-9.

Johansson, Richard and Nugues, Pierre: "*Dependency-based Syntactic–Semantic Analysis with PropBank and NomBank*" in *Proceedings of the Twelfth Conference on Computational Natural Language Learning, 2008*.

Jurafsky & Martin, *Speech and Language Processing, 3. ed*

Ch. 2, sec 2.1-2.3 (except 2.3.3 and details of 2.3.1)

(sec. 2.1 is the same in the 2. ed)

Ch 4, Sec 4.4 (except 4.4.3)

Ch. 7, sec 7.1-7.2, 7.4-7.7

Ch. 9, sec 9.1-9.3

(This is roughly the same as 2.ed 5.1-5.3.

The second edition also includes a useful table over the Brown tagset.)

Ch. 18: sec 18.0, 18.1, 18.2, 18.4

(or 2. ed 20.0-20.3)

Ch. 20, sec 20.0-20.2.4

Ch. 22, sec 22.1-22.6

Marquez et. al.: "*Semantic Role Labeling: An Introduction to the Special Issue*" in *Computational Linguistics, 2008*. Association for Computational Linguistics.

Manning and Schütze, *Foundations of Statistical Natural Language Processing*

Ch. 5, Collocations, except sec 5.3.4

Manning, Raghavan and Schütze, *Introduction to Information Retrieval*,
Ch. 13

McDonald, Ryan and Nivre, Joakim: "*Analyzing and Integrating Dependency Parsers*" in
Computational Linguistics, 2011. Sections 1-2.

Nivre, Joakim: "*Dependency grammar and dependency parsing*" in *MSI report 05133.* , 2005. Växjö
University: School of Mathematics and Systems Engineering. Sections 1,2,4.

Nivre, Joakim: "*Two Strategies for Text Parsing*" in *A Man of Measure: Festschrift in Honour of Fred
Karlsson on his 60th Birthday.*, 2006.

**Nivre, Joakim et. al.: "*MaltParser: A language-independent system for data-driven dependency
parsing*"** in *Natural Language Engineering*, 2007. Sections 1-4.1.

Zwicky, Arnold: "*Heads*" in *Journal of Linguistics, Vol 21*, 1985. Sections 1-2.