

OSU Department of Linguistics
Spring 2001
W. Detmar Meurers

LING 795K
Tue and Thu 15³⁰–17¹⁸
211 Botany & Zoology

Constraint-based processing and advanced parsing techniques

Course web page:

- <http://www.ling.ohio-state.edu/~dm/2001/spring/795K/>

Course participants email list:

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Office hours:

- Tuesdays, 14⁰⁰–15⁰⁰ or by appointment
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Course prerequisites:

- 684.01 (or other background on syntactic processing)
- Regular attendance and active participation (20% of grade)
- Presentation of a topic in class (30% of grade)
- Writing of a research paper (50% of grade)
due date?

Dates

1. *Tue, 27. March*: Introduction
2. *Thu, 29. March*: Chunk parsing (Erhard)
read before seminar: Abney (1995, 1996)
3. *Tue, 3. April*: Processing with HPSG linguistics (Detmar)
read before seminar: Meurers (1994)
4. *Thu, 5. April*: Processing with HPSG linguistics (Detmar)
5. *Tue, 10. April*:
6. *Thu, 12. April*: AT UPENN, RESCHEDULE?
7. *Tue, 17. April*:
8. *Thu, 19. April*:
9. *Tue, 24. April*:
10. *Thu, 26. April*:
11. *Tue, 1. May*:
12. *Thu, 3. May*:
13. *Tue, 8. May*:
14. *Thu, 10. May*:
15. *Tue, 15. May*:
16. *Thu, 17. May*:
17. *Tue, 22. May*:
18. *Thu, 24. May*:
19. *Tue, 29. May*:
20. *Thu, 31. May*:

Topics

1. Processing HPSG theories as close as possible to linguistics:
 - **Detmar**: Implementing an HPSG theory in a phrase structure backbone system: Meurers (1994)
 - Compiling HPSG theories into logic programs: Götz and Meurers (1995, 1997, 1999); Götz (1999)
 - **Wesley**: Lexical Rules: Meurers and Minnen (1997)
2. Advanced parsing techniques:
 - **Vanessa**: Head-Driven Parsing:
 - primary: van Noord (1997)
 - background: Kay (1990); Sikkel and op den Akker (1992); Bouma and van Noord (1993); Nederhof and Satta (1994)
 - GLR Parsing
 - primary: Caroll (1993, chs. 4 and 5)
 - background: Aho and Ullman (1977, ch. 6), Tomita (1986, 1987); Lang (1991)
 - chart parsing alternative to Tomita: Nederhof and Satta (1996)
 - Improved Earley Parsing: Nerhof and Satta (1997)
 - Indexing, etc.: Kiefer et al. (1999), Malouf et al. (2000), Götz et al. (2001)
3. **Mike**: Encoding of Typed Feature Structures: Penn (2000, ch. 8)
4. **Anton**: Packing ambiguity: Griffith (1996), Oepen and Caroll (2000), Lavie and Penstein Rosé (2000)
5. Parser evaluation:
 - starting points: Caroll and Oepen (2000); Caroll et al. (1998)
 - others: Caroll (1994); Lin (1995); Caroll et al. (2000)
 - general considerations and relation to linguistic theory: Berwick and Weinberg (1982)
6. Preprocessing and combined systems:
 - **Anton**: Basili et al. (2000); Kay (2000); Neumann et al. (2000)
 - **Erhard**: Chunk parsing: Abney (1995), Abney (1996) (later appeared as Abney, 1997)
 - **Markus**: Approximations:
 - CFG approximation of HPSG (Kiefer and Krieger, 2000)
 - Regular approximation of CFLs (Nederhof, 2000)
7. **Anna and Arantxa**: Parsing with linearization grammars:
 - LSL: Suhre (1999); Götz and Penn (1997); Fouvary and Meurers (2000)
 - DPSG: van der Sloot (1999), RDPSG Vogel and Erjavec (1994)
 - various: Bunt and van Horck (1996), Johnson (1985); Reape (1991); van Noord (1991); Müller (1996)

References

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