Frank Richter:

Logic Programming for Grammar Implementations

Preliminary Time Table

19.10.: Organizational matters, introduction
24.10.: Gottlob Frege and First Order Logic
25.10.: Art of Prolog (AoP), ch. 1: basic constructs of logic programming
31.10.: AoP, ch. 1 & 2: simple abstract interpreter, database programming
07.11.: AoP, ch. 3: Recursive programming
08.11.: AoP, ch. 4: Computation model of logic programs
14.11.: AoP, ch. 5 & 6: Theory of logic programs and pure Prolog
15.11.: AoP, ch. 7: Programming in pure Prolog: rule/goal order, termination
19.11.: choice of presentation topic
21.11.: AoP, ch. 8 & 9: Arithmetic in Prolog, structure inspection
22.11.: AoP, ch. 10: Meta-logical predicates
28.11.: AoP, ch. 11: Cuts and negation
29.11.: AoP, ch. 12 & 13: Extra-logical predicates and program development
05.12.: AoP, ch. 15: Incomplete data structures
06.12.: NLP for Prolog Programmers (NLP), ch. 3 (3.3–3.4): Definite clause grammars
12.12.: NLP, ch. 6.2 & 6.3: Top-down and bottom-up parsing
13.12.: NLP, ch. 6.4: Left-corner parsing
19.12.: NLP, ch. 6.6: Earley parsing in Prolog
20.12.: TRALE: the parser
09.01.: TRALE, User's Guide (UG) 4.1–4.9: feature logic 1
10.01.: TRALE, UG 4.1–4.9: feature logic 2
16.01.: TRALE: UG 4.10: Macros
17.01.: TRALE, small HPSG-style grammars
23.01.: TRALE, UG 5 & T4.3: Definite clauses and complex antecedent constraints
24.01.: TRALE, UG 6.3: Lexical rules
30.01.: TRALE, HPSG-style grammars with complex antencedents and lexical rules
31.01.: TRALE, UG B-2.10: Source level debugging 1
06.02.: TRALE, UG B-2.10: Source level debugging 2
07.02.: TRALE, grammar development 1
13.02.: TRALE, grammar development 2
14.02.: Summary, final discussion; possible date for final exam