CS 164: Lecture Notes and Readings

Fall, 2013

Please try to avoid printing lecture notes on printers in the lab. The "2x2" versions below are condensed for efficient printing.

In general, try to complete the "Readings" for a given lecture before the lecture.

Lecture	Date	Subject	Slides	Readings
#1	Thu, 29 Aug	Course Introduction	pdf, 2x2 pdf	-
#2	Tue, 3 Sept	Lexical analysis, regular expressions	pdf, 2x2 pdf, Programs	Notes §2.1–2.5; Flex manual (as needed)
#3	Thu, 5 Sept	FSAs	pdf, 2x2 pdf	Notes §2.6–2.9
#4	Tue, 10 Sept corrected 9/24	Parsing: Grammars, Derivations, Syntax-Directed Translation	pdf, 2x2 pdf, Calc example	Notes §3.1–3.7
#5	Thu, 12 Sept	Parsing: Top-Down parsers	pdf, 2x2 pdf	Notes §3.8
#6	Tue, 17 Sept	Parsing: Earley's algorithm	pdf, 2x2 pdf	Notes §3.9
#7	Thu, 19 Sept	Bottom-up parsing	pdf, 2x2 pdf	Notes §3.10
#8	Tue, 24 Sept	More bottom-up parsing, Project discussion, syntactic error recovery, practical notes on LR parsing	pdf, 2x2 pdf, Examples of Bison diagnostic output	Notes §3.10
#9	Thu, 26 Sept	More on using LR parsing	-	-
#10	Tue, 1 Oct	Static Semantics: Overview	pdf, 2x2 pdf	-
#11	Thu, 3 Oct	Types	pdf, 2x2 pdf, Prolog examples	-
#12	Tue, 8 Oct	Type Inference	pdf, 2x2 pdf	-
#13	Thu, 10 Oct	Test #1 (in class)	-	-
#14	Tue, 15 Oct	Type Inference, contd.	-	-
#15	Thu, 17 Oct	Run-time Organization	pdf, 2x2 pdf	-
#16	Tue, 22 Oct	Run-time Organization, contd.	-	-
#17	Thu, 24 Oct	Exceptions, OOP	pdf, 2x2 pdf	-
#18	Tue, 29 Oct	Exceptions, OOP, contd.	-	-
#19	Thu, 31 Oct	Code Generation	pdf, 2x2 pdf	-
#20	Tue, 5 Nov	Code Generation, contd.	pdf, 2x2 pdf	-
#21	Thu, 7 Nov	Code Generation: Arrays	pdf, 2x2 pdf	-
#22	Tue, 12 Nov	Test #2 (in class)	-	-
#23	Thu, 14 Nov	Optimization	pdf, 2x2 pdf	-

#24	Tue, 19 Nov	Storage Allocation, Garbage Collection	pdf, 2x2 pdf	-
#25	Thu, 21 Nov	Register allocation	pdf, 2x2 pdf	-
#26	Tue, 26 Nov	Pointer Analysis	pdf, 2x2 pdf	-
#28	Thu, 5 Dec	Summary, HKN Survey	pdf, 2x2 pdf	-

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