Automated Reasoning

Lecture 21: Exam Review

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Part I: Formalised Mathematics

- Propositional Logic and Natural Deduction (Lectures 2, 3, 4)
- First-Order Logic (Lecture 5)
- Higher-Order Logic (Lecture 6)
- Representation Issues (Lecture 6)
- Unification (Lecture 8)
- Rewriting (Lecture 9)
- Inductive Theorem Proving (Lecture 10)

Part II: Model Checking

- ▶ Model Checking Idea (Lecture 11)
- ▶ Linear Temporal Logic (Lectures 11 and 12)
- ▶ NuSMV (Lecture 13)
- ▶ Computation Tree Logic (Lecture 15)
- ▶ LTL Model Checking Idea (Lecture 16)
- ▶ (R, O) Binary Decision Diagrams (Lectures 18 and 19)

The Exam

The Automated Reasoning Exam is at:

14:30 - 16:30, Thursday 21st May 2015

in

Playfair Library

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Check these for yourself!

Format of the Exam

The rubric on the Automated Reasoning exams is:

Answer QUESTION 1 and ONE other question.

Question 1 is COMPULSORY.

All questions carry equal weight.

CALCULATORS MAY NOT BE USED IN THIS EXAMINATION

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Past papers

Links on the webpage:

- 2011
- 2012
- 2013

Links to older papers:

- 2008
- 2009
- 2010

Older papers are for older versions of the course (so ignore anything on Rippling, SPIN, Promela).