AAA528: Computational Logic

Lecture 8 — Course Review

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2023 Spring

Topics Covered

Computational logic and its application to program verification.

- Propositional logic
- First-order logic
- First-order theories
- Program verification

Schedule

Weeks	Topics
Week 1	Introduction & Propositional Logic (Chap. 1)
Week 2	Propositional Logic (Chap. 1)
Week 3	SAT/SMT Solvers
Week 4	First-order Logic and Theories (Chap. 2, 3)
Week 5	First-order Logic and Theories (Chap. 2, 3)
Week 6	First-order Logic and Theories (Chap. 2, 3)
Week 7	Program Verification (Chap. 5, 6)
Week 8	Invariant Generation (Chap. 12)

Grading

- Quiz & Assignments – 80%
- Attendance – 20%