

# INF5140: Specification and Verification of Parallel Systems

## Lecture 11: Spin Algorithms, Optimization and Great Debates

Gerardo Schneider

Department of Informatics  
University of Oslo

INF5140, Spring 2006



# Some Administrative

- Send an e-mail to `studenter.inf5140@ifi.uio.no` (with copy to Espen and me) with the paper you've selected for presentation
- Next week: Marius and Zeljko
- **Important:** At least one question about a paper you have not presented will be asked in the exam!
- Remember the deadline for the mandatory assignment 2: May 9
  - When you send us an e-mail with the report, propose a date for your presentation
- It'll be very useful for improving our lectures and this course if you say what do you think about it:

[https://wwws.ifi.uio.no/student/kk/kk\\_kurs.php](https://wwws.ifi.uio.no/student/kk/kk_kurs.php)



- Part 1: Underlying Spin verification algorithms (Chap. 8)
  - Safety properties: See slides 8–22 of Holzmann's slides, <http://spinroot.com/spin/Doc/course/lecture15.pdf>
  - Liveness+Fairness properties: See Holzmann's slides, <http://spinroot.com/spin/Doc/course/lecture16.pdf>
- Part 2: Optimization (Partial Order Reduction –Chap. 9)
  - See slides 1–14 of Holzmann's slides: <http://spinroot.com/spin/Doc/course/lecture17.pdf>
- Part 3: The Great Debates

