S-38.3148 Simulation of data networks

Fall 2007

7.9.2007

Course personnel

- Lecturer:
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- Assistants:
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Course requirements (1)

- Exercises (4):
  - Pass/fail, need 50% of overall points
  - First exercise available Sept 25 (deadline Oct 2, 14:00)
  - To be returned to the locker labelled S-38.3148 outside G-wing in the 2nd floor
  - Exercise classes on Tuesdays, 14-16, room S2, first exercise class October 2

- 2 (small) project works:
  - Simulation programming exercises
  - Grades: 1, 3 and 5
  - 2 extra exercise classes/project will be arranged to help people get their projects underway (group receptions)
  - CNCL exercise
    - Assignment: week 45
    - Deadline: end of week 47(?)
    - Exercise classes/question hours: weeks 46 and 47
  - Ns2 exercise
    - Assignment: week 48
    - Deadline: week 52(?)
    - Exercise classes: week 49 and 50

Course requirements (2)

- Exam:
  - 3 exams
  - First exam: Dec 19, at 13-16, room S3

- Grading
  - Course overall grade based on exam and projects
  - Weights:
    - Exam: 50%
    - CNCL exercise: 25%
    - Ns2 exercise: 25%

Course contents

- Theory
  - Lectures 1-6
  - Lectures held in S5

- CNCL simulation tool
  - Lectures 7 and 9
  - Lectures held in B215 (probably)

- Ns2 simulation tool
  - Lectures 10 and 12
  - Lectures held in B215 (probably)

Course material

- Language:
  - Lectures and material in English

- Material available from course home page
  - Do we need a "kurssitoimittaja"?

- Material is basically self-contained

- Lectures + overhead material enough to pass course

Literature

- J. Banks, J.S. Carson, B.L. Nelson (4th ed., 2005)
  - Discrete-Event System Simulation
  - Prentice Hall, New Jersey
- A.M. Law and W. D. Kelton (2000, 3rd ed., 2000)
  - Simulation modeling and analysis
  - McGraw-Hill, New York
  - 2nd edition is also OK
- R. Jain, (1991)
  - The Art of Computer System Performance Analysis
  - John Wiley & Sons,
- I. Mitrani (1982)
  - "Simulation techniques for discrete event systems"
  - Cambridge University Press, Cambridge
- Å. Arvidsson, (1988)
  - Simulering (in Swedish)
  - Studentlitteratur, Lund

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