CS 2210 – Logic for Computer Scientists

Fall Semester 2013

Slides 1 – August 27, 2013

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http://www.knoesis.org/pascal/
Website/Material and Assistant


Or go to http://www.pascal-hitzler.de and follow the link near the bottom of the page to the lecture.

Assistants:

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Distance learning option

• This class has a distance learning option.

• I.e. there will be quite a bit of communication via email. If something slips my attention (e.g., concerning difficulties with the online material) please let me know.

• It is okay to send me solutions to homework assignments by email (scans or typeset [LaTeX recommended]). However, it is your responsibility that everything is clearly readable after printout. I will deposit the graded homework with the department secretary for pick-up [let me know if this is a problem].

• I assume everybody will be physically present for the exams. Exceptions will be made only in documented cases of emergencies. Exams will be on **Saturdays**: September 28\textsuperscript{th}, November 2\textsuperscript{nd}, December 7\textsuperscript{th} at 9:30am.
Organizational Matters

- Physical class meetings are Tuesdays and Thursdays 9:30am to 10:50am.
- No class on Thursday 29th of August!
- Room: Russ 153
- Assistant open hours/ help desk: to be announced
  Let us know if more/others are required.
- For questions:
  - For content questions: ask during the lecture, or go to the open hours of the assistants, or send emails to the assistants. As a last resort, send by email and I’ll answer (usually) in class. My email: pascal@pascal-hitzler.de
  - For organizational issues: Preferably use email to assistant, or if appropriate to me. If you think it’s better to talk in person, come to my office hours.
Organizational Matters

• Office Hours: Tuesdays 3:30pm to 4:30pm, Joshi 389. Email contact preferred. Phone will only work by appointment.

• Textbook (required):
  Uwe Schöning, Logic for Computer Scientists, Birkhäuser, 2008.

• Textbook (recommended):
  I will only take the Tableaux Algorithms from this one.

• Grading:
  3 exams, 30% each
  Graded Homework Assignments: 10%
  Exams are on Saturdays, attendance strictly required.
Organizational matters

- We will frequently make exercise sessions. You will get exercises, to be done at home and graded by us, and discussed afterwards in class.
- Some exercises are labeled “hand-in”. Only these “hand-in” exercises count towards your homework grade.
- Each “hand-in” exercise question counts 4 points. Exercises are due one week after I pose them – before class.
- Hand-ins are possible in the following ways:
  - hand to me before class
  - have them put into my mailbox in the department office
  - email a pdf to me.
- The exercises are the tough part of the class. If you stay on top of them, you should find the exams relatively easy.
Handing in homework solutions

- Due one week after I pose them in class, due *before* class.
- Your name on every sheet.
- Answers clearly numbered as in class.
- Easily readable handwriting or typesetting.
- Remove fuzzy margins.
- Staple multiple pages (no paper clips or other methods).
- If emailed, it is your responsibility that a printout is easy to read. *Do not use Word* as math content is almost unreadable. Rather scan hand-written solutions. If you want to typeset, use LaTeX.
- Explain and justify your solutions whenever appropriate.
Doing exercises

• It may be helpful to work in teams (e.g., two people) to discuss the more difficult exercises. However, I expect that, after discussion, each person writes the solution entirely by him/herself.

• If I get two identical or near-identical write-ups, or otherwise two versions which look like one is a copy of the other, both parties will receive zero points.

• And yes, it’s easy to spot this. In fact, if you manage to do a clever copying – one where it’s clear it’s not a copy – then I don’t have a problem with this (because this requires insight into the exercise).
Organizational matters

- I prefer to use a public website: http://www.pascal-hitzler.de/teaching/f13/index.html

- The manuscript may also contain drafts of future material, taken from previous lectures, which is subject to change [you can ignore this, but you may find it instructive to take a look].

- The new manuscript will be posted shortly before class (usually, the evening before) in a near-final version. The final version will be posted, usually, on the evening of the class session.

- The manuscript bears a date (first page) and margin notes indicate the dates when which part was covered (important e.g. for due dates of exercises).
Course overview

Tentative
We cover Schöning 1.1, 1.2, 1.4, then Ben-Ari 2.6
We cover Schöning 2.1, 2.2, 2.3, then Ben-Ari 5.5

We will also cover basics of Datalog, but there is no suitable textbook reference – please refer to the manuscript.