DAT5/F9D/INF7/KDE3 Fall 2008

Advanced Issues in Database Technology

Course Topics

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- Mobile and Location-Based Services
  - Streamspin
- Location Privacy
- Business intelligence
- Text Mining

- Other topics depending on projects topics

Group Formation

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- Is not completed!
  - Is this correct?
  - How are not in a group?
  - How do not have an advisor?
- Let us get an overview
  - Who is the advisor?
  - How many students in the group?
  - Shortly what are the topics you are working on

Goals

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- Exchange ideas on emerging topics in database technologies
- Support the project work
- Background knowledge about the technologies
  - Not just topics strictly related to your own project!
- Learn how to give technical presentations
  - Highly relevant for your later jobs
  - A lot less this year due to the PDK course on dat4
- Standing on the shoulders of giants

Course Plan

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- Part 1
  - Course overview
  - Introduction to the course topics
  - ~6 lectures
- Part 2
  - ~12 technical paper presentations by students
  - ~6 lectures
    - More on these lectures will be posted!
- Part 3
  - Student group presentations of the status of their projects
  - ~2 lectures
    - More on these lectures will be posted!
- All students *must*:
  - Give at least one presentation in part 2

Course Specifics (1)

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- Home page
  - http://www.cs.aau.dk/~simas/dat5_08/
  - Some material is only accessible from within the **`cs.aau.dk`** domain!
- Time
  - Mondays 12.30-14.15
- Place
  - 0.2.11 (look at the course home page may be changed)
- The course language is English

Course Specifics (2)

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- Teachers
  - Gao Cong
  - Hua Lu
  - Torben B. Pedersen
  - Simonas Šaltenis
  - Man Lung Yiu

The Exams

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- The Course Exam
  - Presentation of (unknown) paper
  - Paper handed out *one week* before the exam
  - About 30 minutes for presentation, relation, criticism (25+3+2)
  - About 10-15 minutes for questions
  - Individual
  - Grade according to the Danish 7-scale
- The Project Exam
  - “Normal” project exam
    - Presentation
    - Questions
    - evaluation
  - Grade pass/no-pass

Types of Scientific Papers

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1) Technical – Engineering/Performance
2) Technical – Theory
3) Challenge/Requirements
4) Survey
5) Application/Industry oriented

- Most of your papers will be of type 1) + 2)
- Approximately 20 papers presented during the seminar

How?

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- Read (and understand…) the paper
- Additional reading may be needed to fully understand the paper
  - Mostly for your own presentation
  - DBLP bibliography http://www.informatik.uni-trier.de/~ley/db/index.html
  - ACM/IEEE portals (can be accessed from cs.aau.dk)
  - Google Scholar http://scholar.google.com/
  - CiteSeer http://citeseer.ist.psu.edu/cs
- High degree of interaction (i.e., many questions)
  - Everyone should think of good questions to ask
  - Questions about the paper
  - Questions about the presentation

Opponent System

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- For every paper presentation in part 2, two students are assigned as *opponents*

- The opponents should:
  - Read the paper particularly carefully
  - Be able to ask detailed questions about the paper
  - Be able to discuss the paper in detail.

- Every student *must* be opponent for at least 2 other presentations
  - Peer reviewing
  - The way the scientific community works

How To Learn And Improve?

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- Criticism!
- Presenter
  - On the scientific content of the paper
  - On the presentation of the paper
- Audience (especially opponents)
  - What was good/what was bad about the paper
  - What was good/what was bad about the presentation
  - Ideas on how to improve the style
- Will give you feedback for your week exam

Oral Presentation Advice

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- Oral communication is different than written
  - Keep it simple
  - Pass your message
  - Repeat it
  - Use figures
  - Use concrete examples
  - Number the slides
  - Make the slides “self-contained” (easier to present)
- Think about your audience
  - Peers, “business-angle”, non-experts, non-cs majors
- Practice!!
  - In front of the mirror/cat/spouse/etc. (two times)

General Presentation Outline

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- Title / Author / Presenter
- The problem
- Talk outline
- Background
- Results/content (the big part)
- Conclusions/future work
- Relation to related work and your project
- Criticism of content and style
  - Strong and weak points of the paper

Presentation Requirements

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- Paper presentations must be **30 minutes** long + another 10-15 minutes for questions
  - Presentations must be **rehearsed** beforehand to practice and test length.
- Presentations must contain **concrete examples**
- Presentations must be shown to supervisor **72 hours** before the course presentation
- Slides must be sent to simas@cs.aau.dk afterwards
- All students must present at least 1 paper
- All students must be opponents for at least 2 papers

Plagiarism

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- From others: Will **NOT** be tolerated
  - It will be checked
  - Punishment is severe

- From yourself:
  "To ensure uniformity of the recommendations to the students writing their Master's theses, the Study Board hereby encourage the supervisors to accept reuse of material in the theses (from the student's/students' most recent project report) provided explicit indications are provided as to which sections are being reused."

Looking forward

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- 2008-09-08 Hua Lu
- 2008-09-15 Torben B. Pedersen
- 2008-09-22 Simonas Šaltenis
- 2008-09-29 Man Lung Yiu
- 2007-10-06 Gao Cong

- Any questions?