DAT5/F9D/INF7/KDE3 Fall 2006

Advanced Issues in Database Technology

Course Topics

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- Mobile and location-based services
- Indexing and updating moving objects
- Data streams

Group Formation

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- Is not completed!
  - Is this correct?
  - Who are not in a group?
  - Who 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
- Learn how to get the main ideas out of a paper

Course Plan

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- Part 1
  - Course overview
  - Introduction to the course topics
  - ~3-4 lectures
- Part 2
  - 12 technical paper presentations by students
  - ~6-7 lectures
    - More on these lectures will be posted!
- Part 3
  - Concluding lecture looking towards to the next semester
  - ~3-4 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_06/
  - Only accessible from within the **`cs.aau.dk`** domain!
- Time
  - Wednesday 10.15-12.00
- Place
  - E1-214
- The course language is English

Course Specifics (2)

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- Teachers
  - Simonas Šaltenis (simas@cs.aau.dk)
  - Kristian Torp (torp@cs.aau.dk)

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 Danish 13 scale
- The Project Exam
  - Normal project exam
    - Presentation
    - Questions
    - evaluation
  - About 2-2.5 hours
  - Grade pass/no-pass

Types of Scientific Papers

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1) Technical - Performance
2) Technical - Theory
3) Overview
4) Challenge/Requirements
5) Survey
6) Application/Industry oriented

- Most of your papers will be of type 1) + 2)
- Approximately 20 paper presented during 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 (see course home page) is a good place to look
  - ACM/IEEE portals (can be accessed from cs.aau.dk)
- High degree of interaction (e.g., 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

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 design a way to give more structures written feedback
  - Would like your feedback on this!

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

Looking forward

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- Wednesday 6th of September
  - Topic: How to present papers
  - Presenter: Kristian Torp
  - Topic all **must** have an opinion on!
- Wednesday 13th of September
  - No course
- Wednesday 20th of September
  - Topic: Indexing and updating moving objects
  - Presenter: Simonas Šaltenis

- Any questions?