DAT5/F9D/INF7/KDE3  Fall 2006

Advanced Issues in Database Technology

daaisy

Center for Data-Intensive Systems
Course Topics

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

• 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

• 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

- 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)

- 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)

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

• 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

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?

- 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

• 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?

• 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

• 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

- 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

• 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

• 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?