


Introduction to the projects

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Informationsteknologi

Today

- How do we do the projects?
- Start to work on the project!

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Informationsteknologi

Improving computer science education in Uppsala – encouraging diversity

- "Umbrella project" which in its turn contains smaller projects.
- Overall aim: Present ideas and insights to the department.
- In special cases, it is possible to select projects outside the umbrella

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What is a good project?

- Relevant, answers to a need
- Contains an empirical component (data collection and analysis)
- Transferable
- Sustainable
- Can be evaluated
- Small enough
- "I like it!"

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Sub-projects

- In teams of two or three
- Self-selected topics, that fits under the umbrella.

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Sub-projects

- Different data collection
 - Interview
 - Questionnaires
 - Litterature surveys
 - Lab instructions
 - Course plans
 - Students
 - Teachers
 - Directors
 - Combinations
- Different methodologies
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Subprojects, examples

- Different questions
- How shall a lecture be adapted to students who speak English as their second language?
- How shall we avoid cheating?
- What makes a lab good for all?
- What makes a lecture good for all?
- What makes a course good for all?
- What are the main practical problems for an international student?
- What, in Computer Science, is the hardest to learn?
- Why are there so few female students in CS?
- How shall the department become better at welcoming foreign/female/all students?
- What is a good examination?

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The report

- 3 – 8 pages, ACM-format.
- Also, a one page-version (Hint, write the long first).
- Rtf-format. Use Word or Openoffice or similar.
- The short reports will be put together into one long report (by Anders). This will be given to the department.

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Each 3 – 8 page report

- Abstract
 - A short summary. Write last
- Introduction and motivation
 - What is it all about? Why are the authors interested in this particular research question?
- Research question
 - The research question
- Related literature
 - An overview of related literature. Google Scholar and ACM Digital Library (available as a Database for Uppsala University Library) are good sources
- Methodology
 - How was data collected?
 - From whom?
 - And how was in analysed?
- Results
 - Results in details
- Conclusions
 - What can we learn? What are the big conclusions, but still only built in the results
- Discussion
 - New insights, new research questions, advices to the department

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The 1 page report

- Introduction and motivation and Research question
- Related literature
- Methodology
- Results
- Conclusions and Discussion

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Next steps

- Send a project plan to me **and** Arnold Pears arnold.pears@it.uu.se
 - Dead-line, project plan: Nov 3, 23.59
 - Subject line "CSEd project"
 - Give the names of all participants, with e-mail addresses
 - Present the project plan in less than one page
 - Supervisor: Arnold Pears
- Course presentation and discussion
 - Dead-line report: Dec 7, 23.59
 - Presentations: Dec 13, full day
- External presentation
 - April 6
 - Teknisk-naturvetenskaplig fakultets universitetspedagogiska konferens
 - Selected projects
 - Conclusions/Summary

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Now

- Create groups!
- Select topics

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