DD2470 Advanced Topics in Visualization and Computer Graphics 6.0 credits

Avancerade ämnen i visualisering och datorgrafik

This is a translation of the Swedish, legally binding, course syllabus.

If the course is discontinued, students may request to be examined during the following two academic years

Establishment

Course syllabus for DD2470 valid from Autumn 2017

Grading scale

A, B, C, D, E, FX, F

Education cycle

Second cycle

Main field of study

Computer Science and Engineering

Specific prerequisites

Language of instruction

The language of instruction is specified in the course offering information in the course catalogue.

Intended learning outcomes

After passing the course, the students should be able to:

- understand, carry out and present a method from a recent research paper in visualisation and computer graphics or parts thereof,
- understand the current research challenges in visualisation and computer graphics,
- conduct effective searches of research literature relevant to visualisation and computer graphics,
- navigate the scientific publication landscape including conferences, journals and bibliometrics,
- effectively and efficiently read research articles by understanding their structure and aspects such as novelty, technical soundness, evaluation and usability

so that they will be able to

- benefit from the body of academic research in their future career, thereby fueling knowledge transfer to industry and success rates in doctoral studies.

Course contents

Give an overview of relevant research publication, the structure of a research paper and how to, in an efficient way, search for relevant literature.

Read, present and discuss recent research papers in visualisation and computer graphics. Implement a method, or parts thereof, published in a research paper.

Course literature

Conference proceedings from for example:

IEEE Visualization EuroVis

PacificVis SIGGRAPH SIGGRAPHAsia

Eurographics

Journals, for example:

Transactions on Visualization and ComputerGraphics Transactions on Graphics

Computer GraphicsForum Computers and Graphics

Examination

- PRO1 - Project 1, 2.0 credits, grading scale: A, B, C, D, E, FX, F
- PRO2 - Project 2, 4.0 credits, grading scale: A, B, C, D, E, FX, F

Based on recommendation from KTH's coordinator for disabilities, the examiner will decide how to adapt an examination for students with documented disability.

The examiner may apply another examination format when re-examining individual students.

Ethical approach

- All members of a group are responsible for the group's work.
- In any assessment, every student shall honestly disclose any help received and sources used.
- In an oral assessment, every student shall be able to present and answer questions about the entire assignment and solution.