



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.

Establishment

On 04/21/2020, the Dean of the EECS School has decided to establish this official course syllabus to apply from the autumn term of 2020, registration number: J-2020-0615.

Grading scale

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

Education cycle

Second cycle

Main field of study

Computer Science and Engineering

Specific prerequisites

Completed course DH2320 Introduction to visualisation and computer graphics or DD2258 Introduction to visualisation, computer graphics and image and video processing.

Active participation in a course offering where the final examination is not yet reported in LADOK is considered equivalent to completion of the course. This applies only to students

who are first-time registered for the prerequisite course offering or have both that and the applied-for course offering in their individual study plan.

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 student should be able to

- carry out and present a whole, or parts of, a method from a current research report in visualisation and computer graphics
- give an account of current research challenges in visualisation and computer graphics
- search for research literature that is relevant for visualisation and computer graphics efficiently
- navigate the scientific publication landscape including conferences, journals and bibliometrics,
- read research articles efficiently and evaluate them with regard to structure and aspects such as novelty, technical soundness, evaluation and usability

in order to be able to benefit from academic research in their future career and thereby contribute to knowledge transfer to the industry.

Course contents

Give an overview of relevant research publications, the structure of a research paper and how to, in an efficient manner, 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.

Examination

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

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

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.