FID3012 Advanced Topics in Networked Systems 7.5 credits

Avancerade ämnen i nätverkssystem

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

Establishment

Course syllabus for FID3012 valid from Autumn 2014

Grading scale

G

Education cycle

Third cycle

Specific prerequisites

The course is open to PhD students.

Language of instruction

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

Intended learning outcomes

After the course, the student should be able to:

- Present a research problem and research results in a concise way and the within the allotted time.
- Defend the research approach, design decisions, and the evaluation methods in a discussion.
- Moderate a discussion after a research presentation.

Course contents

The syllabus for this research-oriented course is driven by published papers in the broad area of in networked systems. Written evaluations is submitted before each weekly meeting. Students must present at least two research papers and will be graded on the quality of their presentation. The course topics include, but are not limited to: reliable networked systems, software defined networks, network virtualization, datacenter networks, cloud computing, and big data. The top networked systems conferences (such as SIGCOMM, NSDI, SOSP, CoNEXT) will be the main source for the papers that will be discussed.

Disposition

The course consists of seminars in which the students will present and discuss research topics in networked systems, and covers four consecutive periods of an academic year, and starts in the Fall every year. The course meets one hour per week, and requires that students read research papers and write paper evaluations before each class (total of four hours of preparation).

Course literature

Forskningsartiklar/

Examination

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.

Examination is based on compulsory attendence, paper evaluations, and oral presentations.

Grading scale: P/F

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.