ID3012 Advanced Topics in Networked Systems 7.5 credits

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Course Syllabus

Established Course Syllabus as PDF:

- Valid from Autumn 2014

Postgraduate course

Postgraduate courses at ICT/Communication Systems

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 scheduled hour per week, and requires that students read research papers and write paper evaluations before each class (total of four hours of preparation).

- Educational level

Third cycle

- Academic level (A-D)

D

- Subject area: ICT
- Grade scale: P/F

Learning outcomes

After the course, the student should be able to:

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

Course main content

The syllabus for this research-oriented course is driven by published papers in the broad area of networked systems. Written evaluations for selected papers that demand critical reasoning will be a part of the examination requirements. The written evaluation is submitted *before* each weekly meeting. Students must present at least two research papers and will be assessed 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, OSDI, CoNEXT) will be the main source for the papers that will be discussed.

Eligibility

The course is open to PhD students.

Prerequisites

Good knowledge of systems and networks.

Literature

Research articles

Examination

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

Grading scale: Pass / Fail

Offered by

ICT/Communication Systems

Contact

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Examiner

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Supplementary information

Language of instruction: English