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Introduction

Course T-110.5191 Spring 2015
Seminar on Internetworking

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January 12, 2015

Learning outcomes

- **Become knowleadgeable** about a specific topic related to networking or security
- **Find** relevant research papers and technical documentation
- **Overview** existing literature on a specific topic
- **Evaluate** others' argumentations critically
- **Write a technical paper**
- **Present** and **defend** techical content

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Seminar paper

- students select a topic and get a tutor assigned
- iterative process
  - draft versions submitted
  - feedback on both English and technical content
- individual work

Other activities

- final course presentation
- acting as opponent for another student

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Course overview

Staff

- Mario Di Francesco (responsible teacher)
- Sanja Šćepanović (teaching assistant)

Contact information

- course email alias: `t-110.5191@list.aalto.fi`
- office hours by appointment

Credits

- 5 ECTS credits

Course completion

- seminar paper, final presentation, opponent feedback and course feedback
- attending the seminar days

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Course scope and development

Course history and theme

- originally including only topics related to networking and mobile/distributed computing
- currently offered as a joint seminar
  - scope also includes security and software technology
- credits can be registered with different course codes
  - i.e., T-110.5191, T-110.5291, or T-106.6360
  - depending on the assigned topic and your preference

Course development

- streamlined course activities
- additional support for writing and presenting technical content

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Required background

Students are expected to know

- basic LaTeX skills
  - related material posted in Noppa under "Additional reading"
- basics of security
  - (a)symmetric cryptography
  - network security
- networking protocols and technologies
  - TCP / IP stack and the related protocols
  - communication standards such as Ethernet and WiFi
- basic programming skills for computer science

**Only some of the requirements above apply,
depending on the assigned topic**

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Lectures

Writing and presenting technical content

- next Monday at 10:15 – 12:00 in lecture room T2

English support

- English teacher (Roger Munn)
- three meetings for individual feedback

Attendance

- not mandatory except for the seminar days
  - final course presentations
  - 7–8 May 2015 (details to be provided)

Course material

- slides posted right after the lecture
- additional material listed in the slides
  and posted in Noppa under "Additional reading"

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Lectures

Date	Time	Room	Topic
19.01.2015	10:15 – 12:00	T2	Presenting Technical Content
13.02.2015	10:00 – 13:00	A106	English Class (Group A)
16.02.2015	10:00 – 13:00	A106	English Class (Group B)
27.03.2015	10:00 – 13:00	A106	English Class (Group A)
30.03.2015	10:00 – 13:00	A106	English Class (Group B)
24.04.2015	10:00 – 13:00	A106	English Class (Group A)
27.04.2015	10:00 – 13:00	A106	English Class (Group B)
07.05.2015	**09:15 – 18:00**	**T6**	**First Seminar Day**
08.05.2015	**09:15 – 18:00**	**T6**	**Second Seminar Day**

Up-to-date schedule available in Noppa

`https://noppa.aalto.fi/noppa/kurssi/t-110.5191/luennot`

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Seminar paper

A technical paper typeset in LaTeX

- topic
  - **–** chosen by the student from a list of available topics
  - **–** `https://wiki.aalto.fi/display/TEAC/Spring+2015+topics`
  - **–** has to be requested by sending an email to the course alias
  - **–** detailed instructions available in Noppa under "Seminar topics"
- 5–8 pages of technical content
- course LaTeX template available in Noppa under "Assignments"

Writing process

- two draft versions submitted
- technical feedback from the tutor,
  writing feedback from the English teacher
- final paper due on April 18, 2015

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Acting as opponent

What is an opponent?

- not a person who competes against somebody or a dissident
- within a disputation or debate
  - opponent points out some aspects for clarification
  - student is questioned and has to defend his (her) arguments

Practicalities

- each student will be assigned
  a seminar paper written by another student
- feedback and inquiry
  - for the draft paper as written text
  - for the final paper as questions during the seminar days

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Seminar days

Format

- presentations about the seminar paper
  - with question time (both opponent and audience)
- a keynote speech by an expert in networking (to be confirmed)
- lunch provided by school

Important

- mandatory attendance
- mark both days (i.e., 7–8 May 2015) in your calendar
  - may become one day with multiple tracks
  - details will be provided later, possibly by Easter

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Tasks as opponent

Feedback on the seminar draft

- read the assigned seminar paper draft
  - the course staff will select it
- write the feedback and return it
  - detailed instructions will be available in Noppa

Questions about the presentation

- read the final paper of the same student
- prepare a few questions before the final presentation
- ask at least one question (two is better) during the seminar day

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Assessment

Seminar paper

- it is the most important outcome of the course
- it determines the final grade
- other course activities also affect the grade ($\pm$1 point)
  - attendance
  - presentation
  - quality of feedback and questions as opponent

Submissions

- through Rubyric
- submission links in the next slide
  - also posted in Noppa under "Assignments"

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Deadlines at a glance

Date	Description	Submission URL
07.02.2015	First draft	`https://rubyric.cs.hut.fi/submit/1190`
21.03.2015	Second draft	`https://rubyric.cs.hut.fi/submit/1191`
02.04.2015	Opponent feedback	Not available
18.04.2015	**Final paper**	`https://rubyric.cs.hut.fi/submit/1192`
02.05.2015	**Slides**	`https://rubyric.cs.hut.fi/submit/1193`

All submission deadlines at 23:59 local time in Finland

Up-to-date schedule available in Noppa

`https://noppa.aalto.fi/noppa/kurssi/t-110.5191/harjoitustyot`

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Course rules

Individual work

- the seminar paper must be your own
- do not copy and do not reuse papers from previous courses
  - be warned: Aalto has a license for an automated testing tool

Respect deadlines

- no requests for extensions
- submit the drafts and the final paper well in advance
  - do not wait until the very last minute: submitting at least 12 hours before the deadline is usually a sensible choice
  - you cannot blame a flaky Internet connection for a missed deadline!

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Summary and agenda

Today's lecture

- introduction and practicalities
  - learning outcomes of the course
  - organization and assessment methods
- course topics
  - overview and tutor presentations

Next lecture

- Monday, January 19, 2015 at 10:15 in T2
- topic: writing and presenting technical content

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What to do this week

Register to the course
- through WebOodi (`https://oodi.aalto.fi/`)
- possibly by today or anyway as soon as possible

Test access to Rubyric
- let the staff know in case of any issues

Request the topic by the deadline
- Thursday, January 15, 2015 at 23:59 EEST
- instructions available in Noppa under "Seminar topics"

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All communications about the course will be given via Noppa

Make sure to enroll in the course through Oodi and frequently check the email address associated with your Aalto account