Joint seminar:
T-110.5291 Seminar on Network Security
T-110.5191 Seminar on Internetworking
T-106.6360 Seminar on Software Technology
and Systems Research

2014

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Today's agenda

1. Overview and organization
2. English support
3. Course theme
4. **Project topics**
5. Timetable
6. Signing up for the course
7. First draft, full draft, final paper
8. What is a good seminar paper?

Overview

- Joint seminar course
- Master-level course 5 ECTS
- Students write a technical paper (~5-8 pages)
  - format of a technical or scientific conference publication
- Requirements:
  - writing the paper
  - presentation and attendance on the seminar day
  - acting as opponent for another student
  - mandatory course feedback
- Individual tutor for each student
- Individual work, no groups
- Max ~25 participants by application

Which course code?

- Joint seminar:

  T-110.5291 Seminar on Network Security
  T-110.5191 Seminar on Internetworking
  T-106.6360 Seminar on Software Technology
  and Systems Research

- Don't worry about choosing the course code. They are interchangeable in your degree (one can replace another as a required course)
- The course credits will be registered to the course code that is most relevant to the topic of your paper
- We'll ask about you preference at the end of the course
- You can include several of these seminar courses in your degree, or even the same seminar twice, but nobody is required to take more than one to graduate

Organization

- Responsible teacher: Tuomas Aura
- Course assistant: Sandeep Tamrakar
- All course material will be in Noppa
- Email alias: t-110.5291@tkk.fi
  Please use this for all the course codes!
- Optima for paper and comments submission
- Tutors are researchers, doctoral students, and exprienced security professionals

English support

- Roger Munn
- Individual feedback on your writing
- Three meetings, groups and time in Noppa
- No study credits
- Mandatory — not really, but if you do not take advantage of the offered support, you may be penalized for poor English in your paper
- If you register for the English support, you must attend the sessions

Topic introductions

- Topics list in Noppa
  - Doctoral students should propose their own topic
  - Master students are usually better off choosing a topic from the list
  - Everyone must have a tutor

- Tutors: please introduce yourself first, then use 1-2 minutes on each topic

Timetable and signing up

- See the detailed course schedule in Noppa

- Sign up for the course by following the instructions in Noppa

    - Bachelor and exchange students, 1st-year Master student: discuss with professor before signing up

    - In 2014, please send the registration email to t-110.5291@tkk.fi for all the course codes

First draft

- Outline: logical and makes a point (a message, central theme, focus, something to say)
- At least one page of text (readable English)
- Key literature references
- Use the course template and Latex and Bibtex
  - Note: use the new template from Noppa
- Tutors should help especially with the outline and finding good references

Full draft

- 5-8 pages using the Latex template
- Most of the text and main ideas written, structure close to final
- References: original or authoritative, relevant, correct, up-to-date
- One week later, deadline for tutor and opponent comments

Contents of a good seminar paper

- Makes a small contribution to technical or scientific knowledge
  - Original work with the student's own idea, analysis, evaluation, measurement, implementation, comparison, summary, example, experiences etc.
- The reader learns something
- Uses diagrams and examples
- Covers a broad area extensively or a smaller area in depth
- References to high-quality scientific literature and authoritative technical sources

Format of a good seminar paper

- **Readable** and correct English
- **Neutral and objective** style suitable for scientific and technical writing
- **Structure** of a conference paper: title, abstract, introduction, background, body sections, conclusion, references, (appendices)
- In computer-science papers, body sections can vary:
  - experimental setup, results, discussion
  - problem, solution, evaluation
  - architecture, implementation, evaluation
  - technology 1, 2, 3, comparison (but make sure to do your own analysis!)
- Correct and sufficient in-text citations to **acknowledge sources**; correct and consistently formatted references

Finding research literature

- Finding research publications:
  - Google Scholar, http://scholar.google.com/
  - Microsoft Academic Search, http://academic.research.microsoft.com/
  - ACM Digital Library / ACM Guide to Computing Literature, http://dl.acm.org/
  - IEEE Xplore, http://ieeexplore.ieee.org/
- Access to PDFs in online libraries from home:
  - Most online libraries can be accessed freely from the campus
  - Library portal http://www.nelliportaali.fi/ enables access from anywhere: log in with your Aalto user account, search for the online library ("find database") that you want to access (e.g. "LNCS"), and follow the link to the library

Cut and paste? – just don't!

- Do not cut and paste text or images from the web or somewhere else
- Do not cut and paste even if you plan to change it later
- Do not rewrite somebody else's text sentence by sentence
- Clearly mark quotations, for example:
  - *According to Smith* [14]*, "uncertainties include fuzzyness and randomness".*
  - *The structure this this section follows closely Smith al.* [15].
  - You can quote images but it is much better to draw your own
- Anyone found copying even a small amount of someone else's work without correct citations will fail the course and may face further disciplinary action

Questions?