T-110.5291
Seminar on Network Security
2012

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

- T-110.5291 Seminar on Network Security P (5 cr)
- Final-year Master-level course
- 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

Organization

- Responsible teacher: Tuomas Aura
- Course assistant: Sandeep Tamrakar
- All course material will be in Noppa
- Email alias: t-110.5291@tkk.fi
- 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 — or you will be penalized for any poor language in your paper

Course theme 2012

- Security and privacy in digital services
- Digital services, mobile devices, and ubiquitous computing have become part of our everyday work and life
- On the open Internet, everything is exposed to attacks
- How to make the services and their supporting infrastructure safer?

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

Check the times from Noppa!

Date	Event
Mon 10.9., 16:15-18:00, T3	**First course meeting.** Presentation of the topics.
Fri 14.9., Midday 12:00	Deadline for signing up for the course
Mon 17.9.	Accepted students and their topics are announced.
Thu 1.10., Midday	**Deadline: First Draft submission**
Fri 5.10.	Feedback from your tutor
Thu 25.10., Midday	**Deadline: Full draft submission**
Fri 5.11., Midday	Deadline: Opponent comment submission
Fri 5.11.	Feedback from your tutor
Thu 22.11. Midday	**Deadline: Final paper submission**
Mon 26.11.	Seminar proceedings compiled for printing and online
Mon 3.12., 16:15-18:00, T3	**Second course meeting**
Mon 3.12., Midday	**Deadline: Presentation slide submission**
Fri 14.12., Full Day 08-19, AS1	**Seminar day, presentations**
Tue 18.12, Midday	Deadline: opponent comment submission
Tue 18.12	Grade suggestions and feedback from tutors

Signing up for the course

- Students sign up by sending an application to t-110.5291@tkk.fi
  - Your name and student number in the subject line
  - Given name, family name
  - Student number
  - E-mail address
  - Your Aalto University account username (for Optima account)
  - Your major and minor subject, or Master program
  - Your transcript of completed courses

- *Bachelor and exchange students: discuss with professor before signing up*

First draft (1.10.)

- 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 (25.10.)

- 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, 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, 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, "uncertainties include fuzzyness and randomness"* [14].
  - *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?