



# Seminar Common Flaws in Protocol Security

## Session 1

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I20

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18. Oct 2022

Phase	Description	Creates Deliverable	Due Date
P	Choose a topic	Citation graph	18.10.2022
I	Deep dive & Concept	Identify research questions	25.10.2022
II	Refine concept	A well structured idea for your paper	08.11.2022
III	Writing	Paper draft (review version)	13.12.2022
IV	Reviewing & writing	Your reviews	20.12.2022
VI	Presentation deadline	Presentation ready	30.01.2023
–	End of Lecture Period	Paper camera ready	11.02.2023

We want you to develop your skills as a member of the [scientific community](#):

- ▶ Surveying skills (Related Work).
- ▶ Ability to conceptualize abstract concepts for yourself.
- ▶ Ability to adjust such concepts.
- ▶ Ability to present your thoughts to others in clarity.

⇒ **Show us that you possess those skills, by presenting a representative work!**

Some paper types that would be perfectly suited as demonstrator of your amazing research skills:

- ▶ Simplified representation of existing knowledge (simplify for the next reader).
- ▶ Reproduction of an experiment and interpretation of results.
- ▶ Creative combinations of existing techniques.
- ▶ Systemization of Knowledge and discussion.

**Your paper does not need to present groundbreaking innovation!**  
(ofc cool if it does)

- ▶ Meeting (about) every 2 weeks in presence. **The TUM calendar counts!**
- ▶ Regularly: Complete provided exercises, and receive feedback from us and others.
- ▶ We will have at least one round of personal meetings with us and each of you. (When?)
- ▶ Issues?

- ▶ <https://scholar.google.com>
- ▶ <https://semanticscholar.org>
- ▶ <https://dblp.uni-trier.de>
- ▶ <https://arxiv.org>
- ▶ Get around paywalls using <https://login.eaccess.ub.tum.de/login> or bookmarklet:

```
1 javascript:void(location.href='https://eaccess.ub.tum.de/login?url='+location.href)
```

- ▶ Researchers' homepages can be **valuable!** (source code, raw data, instructions, technical information, ...)

**“Hey... you wanna be buddys ?”**

## **Identify points of interests for your paper concept**

For this we ask you to execute the following iterative process.



**1. Go through your catalog of papers (Make notes!) and ask yourself questions like**

- (a) What are remaining research questions, what was hard to understand? **What annoyed you?** Provide context to your answers!
- (b) Have those results been reproduced? If not, why not ?
- (c) Which works or results should be compared with each other ? What would such a discussion yield?
- (d) Why was an attack possible ? Is there an underlying systematic problem? What was affected? What can be done now ?

**2. Try to resolve those questions (e.g.)**

- (a) Are there better explanations in other papers ? Has future work already been addressed ?
- (b) Are there already reproductions of this aspect ? If so, do you agree with the methodology ?
- (c) What comparisons were drawn in other works on this topic?
- (d) How did the community react to this attack ? Are there follow up-publications?

**3. Repeat on the new material until you are left with a large collection of unresolved questions.**

**Be ready to present those possible research questions to the course.**

Questions?