

Seminar aus Security WS18 – Lecture 00: Preliminary Discussion

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ESSE



ESSE – Establishing Security

- Institute of Information Systems Engineering
- Research Group for Industrial Software (INSO)
- Working Group Establishing Security (ESSE)
- Lectures
 - Introduction to Security (*WS, Bachelor*)
 - Security for Systems Engineering (CTF-Contest) (*SS, Bachelor*)
 - Advanced Security for Systems Engineering (*WS, Master*)
 - IT Security in Large IT Infrastructures (CTF-Contest) (*SS, Master*)
 - Seminar on Security
 - Projects
 - Bachelor Thesis, Master Thesis, PhD Thesis

Research Topics (Excerpt)

- Electronic Payments
- Large IT Infrastructures
- Connected Cars
- Secure and Anonymous Communication
- Embedded Security and Internet of Things
- Governance, Risk and Compliance
- eHealth
- Penetration Testing, Security Audits, Security Certification
- Identification, Authentication and Authorization, eID solutions
- IT Security Teaching Methods

Excerpt of Applying Subject Areas

- Malware and Internet Crime
- Physical Security of IT Systems
- Applied Cryptography
- Exploit Development, Offensive Computing, and Exploit Mitigation
- Rootkits and OS Security
- Honeypots, Honeynets, and Honeytokens
- Mobile Security
- Privacy-Protection in Cloud/Mobile Applications
- Security Usability for End-2-End Security
- Security Engineering in the Software Life-Cycle

- Questions regarding Seminar aus Security
 - <https://security.inso.tuwien.ac.at/>
 - Tuwel forum
 - lva.security@inso.tuwien.ac.at – please state the lecture name as this e-mail address is used for multiple lectures
 - *Please don't use other ways, e.g., Tuwel submission comments*
- Office Hour on agreement, Exercise Interviews, . . . :
Wiedner Hauptstraße 76/2/2
- esse@inso.tuwien.ac.at

Seminar aus Security WS18



INSO – Industrial Software

Institute of Information Systems Engineering | Faculty of Informatics | TU Wien

Seminar aus Security provides *knowledge in selected topics of IT-Security* in the form of *discussions*, a *comparative literature search* and a *presentation of the results*.

In particular, the following aspects are relevant:

- Audience-friendly work-up of a topic
- Presentation in a conference-like setting
- Giving and taking feedback

Lecture

Select a base paper

Search for relevant literature and present it

Present the structure of your paper and your presentation

Write the paper

Review 2 papers of other students

Improve your paper based on the student reviews

Submit your final paper

Present your results

Lecture – Schedule

- 03.10.2018** Preliminary Discussion
- 05.10.2018** Deadline for Registration in TISS
- 08.10.2018** Start for Selection of a Base Paper in TUWEL
- 10.10.2018** Deadline for the Selection of a Base Paper in TUWEL
- 17.10.2018, 16:00-19:00** Presentation of the Literature
- 23.10.2018, 18:00-20:00** Presentation of the Slide and Paper Structure
- 21.11.2018** Paper Submission
- 07.12.2018** Review Submission
- 07.01.2019** Final Paper Submission
- 16.01.2019, 16:00-19:00** Final Presentation
- 17.02.2019** Voluntary Paper Enhancement Submission

Requirements for the Paper and the Slides

- Paper
 - Paper in English
 - Exactly 5 pages
 - Use the \LaTeX template

- Presentation/Slides
 - Slides and presentation in English
 - 10 minutes for presentation, max. 5 minutes for discussion
 - Use the \LaTeX template

Assessment Criteria for Papers

- Quality of the paper – max. 60 points
 - Content
 - Phrasing
 - Scientificity
 - Quality of the literature (be better than some published papers :))
- *The paper is a literature paper only. You don't have to write a paper based on your own practical research.*

You can, however, if you want :)

Assessment Criteria for Reviews and Presentations

- Quality of the review – max. 20 points
 - Argumentation
 - Conclusiveness
 - Explanation

- Quality of the presentation – max. 20 points

Requirements for the Submissions

- The paper, the paper diff and the slides must be PDF
- The submission of the final paper contains
 - The final paper
 - Colored changes between draft and final paper (use `latexdiff`)

Please mind requirements such as page numbers and structure

- Deadlines are sharp!
- Breaking structure conventions leads to paper rejection (0 points)
- Only the final paper submission is graded, but submitting the first draft late will exclude you from the review process (You will automatically get 0 points for the reviews.)
- The points received on the voluntary paper enhancement submission replace the points received on the final paper submission
- You will receive a certificate after the first submission

Excerpt of Topics for WS2018

- Penetration Testing
- Security/Privacy of Connected Cars
- Teaching IT Security
- Smart Homes
- Hardware Security
- Blockchain Technology
- Crypto Currencies/Ecash
- Open-source intelligence (OSINT)
- Advanced Persistent Threats (APT)
- Penetration Testing
- IoT Security
- Mobile Security
- Security of Embedded Systems
- Two Factor Authentication
- Quantum Cryptography
- Alternative Authentication Methods
- Exploit Mitigation & Program Analysis
- Censorship Resistance
- Anonymity
- Adversarial Machine Learning
- Privacy

Support for Questions Regarding the Lecture

- Questions that are interesting/should be visible for other students as well
 - Tuwel forum
 - *Please note: We do not monitor other forums*
 - *Please do not use other ways, e.g. Tuwel submission comments*

- Specific questions
 - lva.security@inso.tuwien.ac.at – please state the lecture name as this e-mail address is used for multiple lectures
 - Office hour

Thank you!

<https://security.inso.tuwien.ac.at/semsec-ws2018/>

