Hauptseminar Technischer Datenschutz

Paul Walther
Chair of Privacy and Data Security
Learning Goals

- Methods and tools to familiarise with state of the art on research area
  - Finding literature
  - Efficient reading of literature

- Participation in scientific discourse
  - Writing about findings
  - Perform peer review
  - Presentation of findings
## Timeline

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>05.04.22</td>
<td>13:00</td>
<td>Welcome meeting</td>
</tr>
<tr>
<td>11.04.22</td>
<td>23:59</td>
<td><strong>Deadline for sending topic preferences</strong></td>
</tr>
<tr>
<td>12.04.22</td>
<td>13:00</td>
<td>Defense Gregor Garten (presence APB/E006)</td>
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<tr>
<td>19.04.22</td>
<td>13:00</td>
<td><strong>Deadline for meeting with supervisor</strong></td>
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<tr>
<td>19.04.22</td>
<td>13:00</td>
<td>Introduction to literature research</td>
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<tr>
<td>10.05.22</td>
<td>13:00</td>
<td>Introduction to scientific writing</td>
</tr>
<tr>
<td>20.06.22</td>
<td>23:59</td>
<td><strong>Deadline for submission of written report</strong></td>
</tr>
<tr>
<td>21.06.22</td>
<td>13:00</td>
<td>Introduction to peer review</td>
</tr>
<tr>
<td>27.06.22</td>
<td>23:59</td>
<td><strong>Deadline for submission of reviews</strong></td>
</tr>
<tr>
<td>05.07.22</td>
<td>23:59</td>
<td>Deadline revised version of report</td>
</tr>
<tr>
<td>12.07.22</td>
<td>13:00</td>
<td><strong>Presentations</strong></td>
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Timeline

- Times for deadlines and meetings can be found on the website of the TU Dresden
  
  https://tu-dresden.de/ing/informatik/sya/ps/studium/seminars/hs-td
  
- Participation in defenses and colloquia announced on the website is strongly recommended.
Some numbers

- Written report
- English or German
- Around 8 pages (double column)
- LaTeX template can be found on course website
- Summarizes around 8 - 20 papers

- Presentation
- English or German
- 15 minutes for presentation (approx. 12 slides)
- 5 minutes for Q & A

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**Hauptseminar Technischer Datenschutz**

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**Figure 1:** Example for scientific article with two column layout
Grading

- Weighting:
  - Report 60%
  - Presentation 25%
  - Review 15%

- Pass required for report and presentation
- Contacting your supervisor is required

- Common grading criteria:
  - Quality of literature research (coverage and relevance of papers)
  - Quality of discussion (identify and discuss commonalities, differences, and limitations)
  - Working style (autonomy and individual initiative)
Grading

- Core grading criteria for report:
  - Logical structure
  - Citation style and bibliography
  - Grammar and spelling

- Core grading criteria for presentation:
  - Slide quality (logical structure, usage of figures, conciseness of bullet points)
  - Talk quality (Duration, Q & A)

- Core grading criteria for review:
  - Thoroughness, constructiveness, specificity, politeness
# Topics

<table>
<thead>
<tr>
<th>Supervisor</th>
<th>Topic</th>
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<tbody>
<tr>
<td>Sebastian Rehms</td>
<td>Security Automation</td>
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<tr>
<td>Sebastian Rehms</td>
<td>Context-Awareness and Adaptiveness for Access Control</td>
</tr>
<tr>
<td>Stefan Köpsell</td>
<td>Machine Learning based Linkability Attacks</td>
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<tr>
<td>Stefan Köpsell</td>
<td>Confidentiality and (Location) Privacy in V2X Communication</td>
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<td>Stefan Köpsell</td>
<td>Secure Computation based on Homomorphic Encryption</td>
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<td>Stefan Köpsell</td>
<td>Broadcast/Multicast Encryption</td>
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<tr>
<td>Paul Walther</td>
<td>Wireless Identification using RF fingerprints</td>
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<tr>
<td>Paul Walther</td>
<td>Practical Challenges in Quantum Key Agreements</td>
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<tr>
<td>Paul Walther</td>
<td>Machine Learning in Physical Layer Security</td>
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</table>

**Your own topic**

A short topic introduction and initial literature references can be found on the TUD website
Submission of topic preferences

- Send an email to paul.walther@tu-dresden.de

- The email should contain:
  1. Your first and last name
  2. Your first and second preference of the listed topics (title)
    - or -
    A short description of an arbitrary security or privacy-related topic that you find interesting (e.g. from recent news, from lectures)

Deadline for email: Monday, 11.04.2022, 23:59
Further notes

- OPAL will be used only for announcements (participants mailing list)
- The authoritative source for up-to-date notices as well as slides, links etc. is the course website
- Don’t forget to get in contact with your supervisor as soon as a topic has been assigned to you