Course Overview

Wireless Internet Communication
https://www.ce.cit.tum.de/cm/teaching/2023-seminar-wireless-internet-communication/

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October 25, 2023
Outline

1. Seminar Structure and Grading Scheme
   a. Reviews
   b. Presentation
   c. Participation
2. HotCRP Example
3. Presentation Examples
4. Organizational Matters
5. Thesis opportunities
1. Seminar Structure and Grading Scheme

- Regular conference paper publication process:
  - Call for Papers: Submission until specified date
  - Round of reviews by technical committee: decision to accept/reject?
  - Presentation of accepted/revised papers during conference sessions
    - Followed by discussion and Q&A

- In this seminar: Reviews + Presentations
  - Pre-selected (published) papers on Internet measurements
  - Each student reviews papers for the sessions
    - Include 3 in-depth questions about paper
  - Each student presents 1 paper (~12-13 min + 5-7 min discussion)
    - Include own thoughts (on relevance of paper) in 1-2 slides

Grading

- 40% for Reviews
- 10% for Presentations
- 40% for Participation
- 10% for Final Project
2. HotCRP Example (https://hotcrp.com/)

Internet Measurements Seminar 2016 Home

Search

Selected papers (or select all 14), then Download Tag Assign Decide Mail

<table>
<thead>
<tr>
<th>ID</th>
<th>Title</th>
<th># Reviews</th>
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<tbody>
<tr>
<td>1</td>
<td>Characterizing a Meta-CDN</td>
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<td>2</td>
<td>Open Connect Everywhere: A Glimpse at the Internet Ecosystem through the Lens of the Netflix CDN</td>
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<td>3</td>
<td>A First Look at QUIC in the Wild</td>
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<td>Real-time Video Quality of Experience Monitoring for HTTPS and QUIC</td>
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<td>5</td>
<td>Mission Accomplished? HTTPS Security after DigiNotar</td>
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<td>6</td>
<td>Understanding the Role of Registrars in DNSSEC Deployment</td>
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<td>Performance Characterization of a Commercial Video Streaming Service</td>
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<td>8</td>
<td>Vroom: Accelerating the Mobile Web with Server-Aided Dependency Resolution</td>
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<td>9</td>
<td>Deep Diving into Africa's Inter-Country Latencies</td>
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<td>10</td>
<td>Inside the Walled Garden: Deconstructing Facebook's Free Basics Program</td>
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<td>11</td>
<td>Cell Spotting: Studying the Role of Cellular Networks in the Internet</td>
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<td>12</td>
<td>Dissecting VOD Services for Cellular: Performance, Root Causes and Best Practices</td>
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<td>13</td>
<td>Challenges in Inferring Internet Congestion Using Throughput Measurements</td>
<td>5/6</td>
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<td>14</td>
<td>TCP Congestion Signatures</td>
<td>7/8</td>
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Paper summary
Please summarize the paper briefly in your own words.

Strengths
What are the paper's strengths? You may comment on the importance of the problems addressed, the novelty of the proposed solutions, the technical depth and potential impact.

Weaknesses
What are the paper's weaknesses? Just a couple sentences, please.

Technical Aspects
Is the research question well-motivated? What technical aspects are missing to understand the paper?

Security Considerations
Did the authors cover attacks and defense mechanisms (implicitly/explicitly)? Are there others that are missing?

Presentation of Proposal
Does the abstract convince the reader to read the full paper? Is the paper well-written and well-organized overall? Does the conclusion address the problem identified in the introduction?
3. Presentation Examples

- Presentations typically follow the structure of the paper
  - Motivate the subject, briefly introduce background if necessary
  - Explain methodology
  - Present and discuss **key results**
  - Summarize key findings/conclusions and describe outlook
    - Include personal reflection and thoughts on the paper

- Examples for presentations: [https://www.ce.cit.tum.de/cm/teaching/2017-seminar-internet-measurements/](https://www.ce.cit.tum.de/cm/teaching/2017-seminar-internet-measurements/)
4. Organizational Matters

- Seminar sessions will take place roughly every two weeks to provide enough time for reading and preparation of papers via BBB (https://bbb.in.tum.de/tri-rcp-hs5-rcn)

- Reviewing process: Invite to local HotCRP instance
  - Presented papers will be imported to HotCRP for reviewing
  - Review form provides prompts to assist in commenting on the papers
  - Reviews due until presentation date if not presenting on that day
  - Overall 6 Reviews throughout the seminar
5. Thesis opportunities

- The CM Chair has multiple open topics for
  - GR
  - BT
  - MT
- QUIC, Multipath, Edge, ICN, NDN, …
- See https://www.ce.cit.tum.de/cm/thesis-guided-research/open-thesis-topics-guided-research/
- Tell your fellow students