

Course Overview

Internet Measurements Seminar

<https://www.ce.cit.tum.de/cm/teaching/summer-term-2024/2024-seminar-internet-measurements/>

Mike Kosek, Justus Fries, Trinh Viet Doan

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Outline

1. Seminar Structure and Grading Scheme
 - a. Reviews
 - b. Presentation
 - c. Learning Outcomes
2. HotCRP Example and Reviewing Process
3. Presentation Examples
4. Organizational Matters

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 Grading
40%
 - Include 3 in-depth questions about the paper **10%**
 - Each student presents 1 paper (**~12-13 min + 5-7 min discussion**) **40%**
 - Include your own thoughts on the paper in 1 slide **10%**

1. Learning Outcomes

- ❑ Learn about latest research in the area of Internet Measurements
 - Current problems, state-of-the-art methodology, open questions

- ❑ Acquire general skill set by taking roles of a reviewer and a presenter
 - Scientific conference/workshop, peer reviewing, paper publication process
 - How are good research papers presented in written form?
 - Importance of reproducibility and artifacts
 - Critical thinking while reading/reviewing papers and listening to talks
 - Questioning content, identifying strengths/weaknesses
 - Extract key results and main findings → takeaways
 - Presentation and discussion of results in concise manner for a talk

2. HotCRP Example (<https://hotcrp.com/>)

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Search

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ID	Title	# Reviews	RepCod
<input type="checkbox"/>	#1 Characterizing a Meta-CDN	0	
<input type="checkbox"/>	#2 Open Connect Everywhere: A Glimpse at the Internet Ecosystem through the Lens of the Netflix CDN	6	
<input type="checkbox"/>	#3 A First Look at QUIC in the Wild	6	
<input type="checkbox"/>	#4 Real-time Video Quality of Experience Monitoring for HTTPS and QUIC	5	
<input type="checkbox"/>	#5 Mission Accomplished? HTTPS Security after DigiNotar	5/6	
<input type="checkbox"/>	#6 Understanding the Role of Registrars in DNSSEC Deployment	7	
<input type="checkbox"/>	#7 Performance Characterization of a Commercial Video Streaming Service	0	
<input type="checkbox"/>	#8 Vroom: Accelerating the Mobile Web with Server-Aided Dependency Resolution	6	
<input type="checkbox"/>	#9 Deep Diving into Africa's Inter-Country Latencies	6/7	
<input type="checkbox"/>	#10 Inside the Walled Garden: Deconstructing Facebook's Free Basics Program	6	
<input type="checkbox"/>	#11 Cell Spotting: Studying the Role of Cellular Networks in the Internet	6/7	
<input type="checkbox"/>	#12 Dissecting VOD Services for Cellular: Performance, Root Causes and Best Practices	7	
<input type="checkbox"/>	#13 Challenges in Inferring Internet Congestion Using Throughput Measurements	5/6	
<input type="checkbox"/>	#14 TCP Congestion Signatures	7/8	

Select papers (or select all 14), then [Download](#) · [Tag](#) · [Assign](#) · [Decide](#) · [Mail](#)

Write Review

Offline reviewing Upload form: No file chosen
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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?

2. Reviewing Process

- Reviewing process: Invite to HotCRP instance
 - Check email address (login) in invitation email
 - Registration form: affiliation can be anything we do not use it
 - Presented papers will be imported to HotCRP for reviewing
 - Review form provides prompts to assist in commenting on the papers
 - For in-depth questions:
 - Avoid generic questions such as “*Can we apply AI/ML?*”
 - Try to ask questions that, e.g., propose changing the design or configuration of the study and briefly elaborate on why
 - Reviews due until presentation date **if not presenting** on that day
 - I.e., before a session, you either review OR prepare a presentation
 - Overall 6 reviews throughout the seminar

3. Presentation Examples

- ❑ Presentations typically follow the structure of the paper
 - Motivate the subject (~15% of time)
 - Explain methodology (~40% of time)
 - Keep it simple: don't lose yourself in details; add background if needed
 - Present and discuss **main/most interesting** results (~30% of time)
 - Usually summarized in abstract
 - Summarize main findings/conclusions and describe outlook (~10% of time)
 - Add your own thoughts on the paper in 1 slide (~5% of time)
 - E.g., what are strengths, weaknesses, limitations
- ❑ Practice your presentation
 - Get feedback from your fellow students
 - Be aware of the **time limit of ~12-13 min**

4. Organizational Matters (1)

- Paper selection
 - List of seminar papers in Moodle
 - Send us your preferences by May 03, 2024, 23:59 via Email:
 - Papers: Top 5 papers in descending order
 - Presentation dates: Top 3 presentation dates in descending order
 - We will assign the papers and presentation dates by May 06, 2024, and announce them via Moodle.

4. Organizational Matters (2)

- Seminar sessions will take place roughly every two weeks to provide enough time for reading and preparation of papers via BBB (<https://bbb.cit.tum.de/tri-kdf-hf5-4fc>)

Sessions start at 4 p.m.

- Next dates:
 - Preferences — May 03 (**check Moodle!**)
 - Session 1 — May 22
 - Session 2 — June 05
 - Session 3 — June 19
 - Grading — Early July