Seminar - Dienstgüte und Programmierbarkeit am Netzwerk-Edge
Kickoff Agenda: Seminar - Dienstgüte und Programmierbarkeit am Netzwerk-Edge

- General Information
- Seminar Topics
- Workshop - Literature Research (on 23.10.2019)
- Workshop – Giving Presentations (only if required)
Seminar - Dienstgüte und Programmierbarkeit am Netzwerk-Edge

- Seminar
  - Focus on justified design decisions based on an in-depth study of related work
  - Good preparation for a bachelor or master thesis

- Topic definitions and starting related work are provided by the supervisor
- Individual or group work (max 2-3 per group)
- Main Tasks:
  - Read, compare and critically evaluate the literature on the provided topic
  - Discuss the solution designs of the related work in form of a final report that you write
  - Present your findings in form of a 15 min presentation
Timeline of the Seminar

- Send your topic selection to amr.rizk@uni-ulm.de (→21.10.2019)
- (after 21.10.2019) - You will receive the assignment / your group info
- 23.10.2019 Workshop Literature Research
- Seminar Consultation Hours
  - Since we have multiple topics Email me beforehand
  - Weekly Wed. 12:15 – 13:45 - Room 43.2.103
- Report Submission (10.02.2020)
  - Submit the final written report
  - Length and content depends on task type and group size!
- Final Presentations (12.02.2020)
  - Presentation and discussion of your work

You can find all details on our homepage!
http://www.uni-ulm.de/in/mrm → Lehre → Vorlesungen (WS) → Seminar Dienstgüte
One more thing...
- Steve Jobs

- Although that should be obvious

Plagiarism is not tolerated in this seminar.

By participating in this seminar, you declare that all submissions (report etc.) are the result of your own independent scholarly work, and that in all cases material from the work of others (in books, articles, essays, dissertations, and on the internet) is acknowledged, and quotations and paraphrases are clearly indicated.

- If we, nevertheless, detect plagiarized parts:
  - Your submission will be graded with 5.0
  - We will notify your examinations office
TOPICS
Decide on one topic → pick one paper → send your choice to amr.rizk@uni-ulm.de until 21.10.2019
Topic 1: Methods of Quality of Service Provisioning

- Why (and How) Networks Should Run Themselves
- Future of Ultra-Dense Networks Beyond 5G
- Can Beacons be Compressed to Reduce the Channel Load in Vehicular Networks?
- Cooperative Data Routing & Scheduling In Software Defined Vehicular Networks
Topic 2: Vehicle-to-X Communication

- Temporal Reachability in Vehicular Networks

- Software-Defined VANETs

- ARVE: Augmented Reality Applications in Vehicle to Edge Networks

- Effect of the Configuration of Platooning Maneuvers on the Traffic Flow under Mixed Traffic Scenarios

- Multiple Access in Cellular V2X: Performance Analysis in Highly Congested Vehicular Networks
Topic 3: Programmable Network Edge

- Programmable Packet Scheduling at Line Rate
- CONGA: distributed congestion-aware load balancing for datacenters
- DRILL: Micro Load Balancing for Low-latency Data Center Networks
Thank you!

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