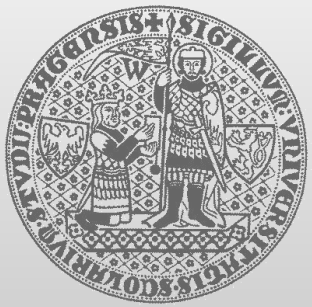
Homework 5: Research Papers

http://d3s.mff.cuni.cz

Department of Distributed and Dependable Systems

Pavel Parízek



CHARLES UNIVERSITY IN PRAGUE

faculty of mathematics and physics

Task

- Read one research paper
- Create slides (optional)
- Present during the labs
  - What: key ideas, summary (content), your opinion
  - How: slides (PowerPoint), drawing on whiteboard

Organization

- Two or three presentations at each slot
  - Length: easy paper 20 minutes, medium 30-35, hard 50
- Choose your group (size: 1-3)
- Pick one slot
  - First option: **16.5**
  - Second option: **23.5**
- Select one paper
  - You will get a PDF file by email later today

Department of Distributed and Dependable Systems

Easy papers

1) D. Engler and M. Musuvathi. Static Analysis versus Software Model Checking for Bug Finding. VMCAI 2004

2) N. Palix, G. Thomas, S. Saha, C. Calves, J. Lawall, and G. Muller. Faults in Linux: Ten Years Later. ASPLOS 2011

3) P. Marinescu and C. Cadar. KATCH: High-Coverage Testing of Software Patches. ESEC/FSE 2013

Medium papers

4) M. Naik, A. Aiken, and J. Whaley. Effective Static Race Detection for Java. PLDI 2006

5) T. Reps. Program Analysis via Graph Reachability. Information & Software Technology, 40(11-12), 1998

6) S. Chandra, E. Torlak, S. Barman, and R. Bodik. Angelic Debugging. ICSE 2011

7) G. Jin, L. Song, W. Zhang, S. Lu, and B. Liblit. Automated Atomicity-Violation Fixing. PLDI 2011

8) S. Park, R. Vuduc, and M.J. Harrold. Falcon: Fault Localization in Concurrent Programs. ICSE 2010

9) R. Leino and P. Muller. A Basis for Verifying Multi-threaded Programs. ESOP 2009

10) A. Gurfinkel, T. Kahsai, A. Komuravelli, and J.A. Navas. The SeaHorn Verification Framework. CAV 2015

Hard papers

11) A. Farzan, A. Holzer, N. Razavi, and H. Veith. Con2colic Testing. ESEC/SIGSOFT FSE 2013

12) W. Zhang, J. Lim, R. Olichandran, J. Scherpelz, G. Jin, S. Lu, and T. Reps. ConSeq: Detecting Concurrency Bugs through Sequential Errors. ASPLOS 2011