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Wednesday, April 2, 2014

Datacenter Networks

Circuit Switching Under the Radar with REACToR

He Liu, Feng Lu, Alex Forencich, Rishi Kapoor, Malveeka Tewari, Geoffrey M. Voelker, George Papen, Alex C. Snoeren, and George Porter, University of California, San Diego

Catch the Whole Lot in an Action: Rapid Precise Packet Loss Notification in Data Center

Peng Cheng, Fengyuan Ren, Ran Shu, and Chuang Lin, Tsinghua University

High Throughput Data Center Topology Design

Ankit Singla, P. Brighten Godfrey, and Alexandra Kolla, University of Illinois at Urbana-Champaign

Debugging Complex Systems

Adtributor: Revenue Debugging in Advertising Systems

Ranjita Bhagwan, Rahul Kumar, Ramachandran Ramjee, George Varghese, Surjyakanta Mohapatra, Hemanth Manoharan, and Piyush Shah, Microsoft

DECAF: Detecting and Characterizing Ad Fraud in Mobile Apps

Bin Liu, University of Southern California; Suman Nath, Microsoft Research; Ramesh Govindan, University of Southern California; Jie Liu, Microsoft Research

I Know What Your Packet Did Last Hop: Using Packet Histories to Troubleshoot Networks

Nikhil Handigol, Brandon Heller, Vimalkumar Jeyakumar, David Mazières, and Nick McKeown, Stanford University

Libra: Divide and Conquer to Verify Forwarding Tables in Huge Networks

Hongyi Zeng, Stanford University; Shidong Zhang and Fei Ye, Google; Vimalkumar Jeyakumar, Stanford University; Mickey Ju and Junda Liu, Google; Nick McKeown, Stanford University; Amin Vahdat, Google and University of California, San Diego

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Software Dataplane Verification

Mihai Dobrescu and Katerina Argyraki, École Polytechnique Fédérale de Lausanne

NetCheck: Network Diagnoses from Blackbox Traces

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Exalt: Empowering Researchers to Evaluate Large-Scale Storage Systems

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