NSDI ’16: 13th USENIX Symposium  
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Message from the Program Co-Chairs  

Wednesday, March 16, 2016  
Network Architectures and Protocols  

An Industrial-Scale Software Defined Internet Exchange Point  
Arpit Gupta and Robert MacDavid, Princeton University; Rüdiger Birkner, ETH Zürich; Marco Canini, Université catholique de Louvain; Nick Feamster and Jennifer Rexford, Princeton University; Laurent Vanbever, ETH Zürich

XFabric: A Reconfigurable In-Rack Network for Rack-Scale Computers  
Sergey Legtchenko, Nicholas Chen, Daniel Cletheroe, Antony Rowstron, Hugh Williams, and Xiaohan Zhao, Microsoft Research

Be Fast, Cheap and in Control with SwitchKV  
Xiaozhou Li and Raghav Sethi, Princeton University; Michael Kaminsky, Intel Labs; David G. Andersen, Carnegie Mellon University; Michael J. Freedman, Princeton University

Bitcoin-NG: A Scalable Blockchain Protocol  
Ittay Eyal, Adem Efe Gencer, Emin Gün Sirer, and Robbert van Renesse, Cornell University

Exploring Cross-Application Cellular Traffic Optimization with Baidu TrafficGuard  
Zhenhua Li, Tsinghua University and Baidu Mobile Security; Weiwei Wang, Baidu Mobile Security; Tianyin Xu, University of California, San Diego; Xin Zhong, Tsinghua University and Baidu Mobile Security; Xiang-Yang Li, Tsinghua University, University of Science and Technology of China, and Illinois Institute of Technology; Yunhao Liu, Tsinghua University; Christo Wilson, Northeastern University; Ben Y. Zhao, University of California, Santa Barbara

Content Delivery  

Efficiently Delivering Online Services over Integrated Infrastructure  
Hongqiang Harry Liu, Microsoft Research; Raajay Viswanathan, University of Wisconsin—Madison; Matt Calder, Microsoft; Aditya Akella, University of Wisconsin—Madison; Ratul Mahajan, Jitendra Padhye, and Ming Zhang, Microsoft Research

Scalable and Private Media Consumption with Popcorn  
Trinabh Gupta, The University of Texas at Austin and New York University; Natacha Crooks, The University of Texas at Austin and Max Planck Institute for Software Systems (MPI-SWS); Whitney Mulhern, New York University; Srinath Setty, Microsoft Research; Lorenzo Alvisi, The University of Texas at Austin; Michael Walfish, New York University

Speeding up Web Page Loads with Shandian  
Xiao Sophia Wang and Arvind Krishnamurthy, University of Washington; David Wetherall, University of Washington and Google

Polaris: Faster Page Loads Using Fine-grained Dependency Tracking  
Ravi Netravali and Ameesh Goyal, MIT CSAIL; James Mickens, Harvard University; Hari Balakrishnan, MIT CSAIL

CFA: A Practical Prediction System for Video QoE Optimization  
Junchen Jiang and Vyas Sekar, Carnegie Mellon University; Henry Milner, University of California, Berkeley; Davis Shepherd, Conviva; Ion Stoica, University of California, Berkeley, Conviva, and Databricks; Hui Zhang, Carnegie Mellon University and Conviva
Thursday, March 17, 2016

Wireless I

Passive Wi-Fi: Bringing Low Power to Wi-Fi Transmissions ........................................... 151
Bryce Kellogg, Vamsi Talla, Shyamnath Gollakota, and Joshua R. Smith, University of Washington

Decimeter-Level Localization with a Single WiFi Access Point ........................................... 165
Deepak Vasisht, MIT CSAIL; Swarun Kumar, Carnegie Mellon University; Dina Katabi, MIT CSAIL

A Scalable Multi-User Uplink for Wi-Fi .................................................................................. 179
Adriana B. Flores, Sadia Quadri, and Edward W. Knightly, Rice University

Flexible Networks

Compiling Path Queries ........................................................................................................... 207
Srinivas Narayana, Mina Tahmasbi, Jennifer Rexford, and David Walker, Princeton University

Simplifying Software-Defined Network Optimization Using SOL ........................................... 223
Victor Heorhiadi and Michael K. Reiter, University of North Carolina at Chapel Hill; Vyas Sekar, Carnegie Mellon University

Paving the Way for NFV: Simplifying Middlebox Modifications Using StateAlyzr ............... 239
Junaid Khalid, Aaron Gember-Jacobson, Roney Michael, Anubhavnidhi Abhashkumar, and Aditya Akella, University of Wisconsin—Madison

Embark: Securely Outsourcing Middleboxes to the Cloud ...................................................... 255
Chang Lan, Justine Sherry, Raluca Ada Popa, and Sylvia Ratnasamy, University of California, Berkeley; Zhi Liu, Tsinghua University

Dependability and Monitoring

BUZZ: Testing Context-Dependent Policies in Stateful Networks ........................................... 275
Seyed K. Fayaz, Tianlong Yu, Yoshiaki Tobioka, Sagar Chaki, and Vyas Sekar, Carnegie Mellon University

Minimizing Faulty Executions of Distributed Systems ............................................................ 291
Colin Scott and Aurojit Panda, University of California, Berkeley; Vjekoslav Brjakovic, International Computer Science Institute; George Necula, University of California, Berkeley; Arvind Krishnamurthy, University of Washington; Scott Shenker, University of California, Berkeley, and International Computer Science Institute

FlowRadar: A Better NetFlow for Data Centers ..................................................................... 311
Yuliang Li and Rui Miao, University of Southern California; Changhoon Kim, Barefoot Networks; Minlan Yu, University of Southern California

Sibyl: A Practical Internet Route Oracle .................................................................................... 325
Ítalo Cunha, Universidade Federal de Minas Gerais; Pietro Marchetta, University of Napoli Federico II; Matt Calder, Yi-Ching Chiu, and Brandon Schlinker, University of Southern California; Bruno V. A. Machado, Universidade Federal de Minas Gerais; Antonio Pescapè, University of Napoli Federico II; Vasileios Giotsas, University of California, San Diego/CAIDA; Harsha V. Madhyastha, University of Michigan; Ethan Katz-Bassett, University of Southern California

VAST: A Unified Platform for Interactive Network Forensics ................................................ 345
Matthias Vallentin, University of California, Berkeley; Vern Paxson, University of California, Berkeley, and International Computer Science Institute; Robin Sommer, International Computer Science Institute and Lawrence Berkeley National Laboratory
Resource Sharing

Ernest: Efficient Performance Prediction for Large-Scale Advanced Analytics
Shivaram Venkataraman, Zongheng Yang, Michael Franklin, Benjamin Recht, and Ion Stoica, University of California, Berkeley

Cliffhanger: Scaling Performance Cliffs in Web Memory Caches
Asaf Cidon and Assaf Eisenman, Stanford University; Mohammad Alizadeh, MIT CSAIL; Sachin Katti, Stanford University

FairRide: Near-Optimal, Fair Cache Sharing
Qifan Pu and Haoyuan Li, University of California, Berkeley; Matei Zaharia, Massachusetts Institute of Technology; Ali Ghodsi and Ion Stoica, University of California, Berkeley

HUG: Multi-Resource Fairness for Correlated and Elastic Demands
Mosharaf Chowdhury, University of Michigan; Zhenhua Liu, Stony Brook University; Ali Ghodsi and Ion Stoica, University of California, Berkeley, and Databricks Inc.

Friday, March 18, 2016

Distributed Systems

Consensus in a Box: Inexpensive Coordination in Hardware
Zsolt István, David Sidler, and Gustavo Alonso, ETH Zürich; Marko Vukolić, IBM Research—Zürich

StreamScope: Continuous Reliable Distributed Processing of Big Data Streams
Wei Lin and Haochuan Fan, Microsoft; Zhengping Qian, Microsoft Research; Junwei Xu, Sen Yang, and Jingren Zhou, Microsoft; Lidong Zhou, Microsoft Research

Social Hash: An Assignment Framework for Optimizing Distributed Systems Operations on Social Networks.
Alon Shalita, Brian Karrer, Igor Kabiljo, Arun Sharma, Alessandro Presta, and Aaron Adcock, Facebook; Herald Kllapi, University of Athens; Michael Stumm, University of Toronto

The Design and Implementation of the Warp Transactional Filesystem
Robert Escriva and Emin Gün Sirer, Cornell University

BlowFish: Dynamic Storage-Performance Tradeoff in Data Stores
Anurag Khandelwal, Rachit Agarwal, and Ion Stoica, University of California, Berkeley

In-Network Processing

Universal Packet Scheduling
Radhika Mittal, Rachit Agarwal, and Sylvia Ratnasamy, University of California, Berkeley; Scott Shenker, University of California, Berkeley, and International Computer Science Institute

Maglev: A Fast and Reliable Software Network Load Balancer
Daniel E. Eisenbud, Cheng Yi, Carlo Contavalli, Cody Smith, Roman Kononov, Eric Mann-Hielscher, Ardas Cilingiroglu, and Bin Cheyney, Google Inc.; Wentao Shang, University of California, Los Angeles; Jinnah Dylan Hosein, SpaceX

Enabling ECN in Multi-Service Multi-Queue Data Centers
Wei Bai, Li Chen, and Kai Chen, Hong Kong University of Science and Technology; Haitao Wu, Microsoft

DFC: Accelerating String Pattern Matching for Network Applications
Byungkwan Choi, Jongwook Chae, Muhammad Jamshed, Kyoungsoo Park, and Dongsu Han, Korea Advanced Institute of Science and Technology (KAIST)

(Friday March 18, continues on next page)
Security and Privacy

Diplomat: Using Delegations to Protect Community Repositories .................................................567
Trishank Karthik Kuppusamy, Santiago Torres-Arias, Vladimir Diaz, and Justin Cappos, New York University

AnonRep: Towards Tracking-Resistant Anonymous Reputation .........................................................583
Ennan Zhai, Yale University; David Isaac Wolinsky, Facebook, Inc.; Ruichuan Chen, Nokia Bell Labs; Ewa Syta, Yale University; Chao Teng, Facebook, Inc.; Bryan Ford, École Polytechnique Fédérale de Lausanne (EPFL)

Mind the Gap: Towards a Backpressure-Based Transport Protocol for the Tor Network ..................597
Florian Tschorsch and Björn Scheuermann, Humboldt University of Berlin

Sieve: Cryptographically Enforced Access Control for User Data in Untrusted Clouds .......................611
Frank Wang, MIT CSAIL; James Mickens, Harvard University; Nickolai Zeldovich and Vinod Vaikuntanathan, MIT CSAIL

Earp: Principled Storage, Sharing, and Protection for Mobile Apps .......................................................627
Yuanzhong Xu, Tyler Hunt, Youngjin Kwon, and Martin Georgiev, The University of Texas at Austin; Vitaly Shmatikov, Cornell Tech; Emmett Witchel, The University of Texas at Austin

Wireless II

iCellular: Device-Customized Cellular Network Access on Commodity Smartphones ..................643
Yuanjie Li, University of California, Los Angeles; Haotian Deng and Chunyi Peng, The Ohio State University; Zengwen Yuan, Guan-Hua Tu, Jiayao Li, and Songwu Lu, University of California, Los Angeles

Diamond: Nesting the Data Center Network with Wireless Rings in 3D Space ...............................657
Yong Cui and Shihan Xiao, Tsinghua University; Xin Wang, Stony Brook University; Zhenjie Yang and Chao Zhu, Tsinghua University; Xiangyang Li, Tsinghua University and University of Science and Technology of China; Liu Yang, Beijing University of Posts and Telecommunications; Ning Ge, Tsinghua University

Ripple II: Faster Communication through Physical Vibration .........................................................671
Nirupam Roy and Romit Roy Choudhury, University of Illinois at Urbana–Champaign

PhyCloak: Obfuscating Sensing from Communication Signals ............................................................685
Yue Qiao, Ouyang Zhang, Wenjie Zhou, Kannan Srinivasan, and Anish Arora, The Ohio State University