

SIGCOMM-2012 Paper List – trimmed by WangYu

File	Details
Session 1: Middlebox and Middleware Session Chair: Ramana Kompella	
p1	Multi-Resource Fair Queueing for Packet Processing <i>Ali Ghodsi (UC Berkeley / KTH), Vyas Sekar (Intel Labs), Matei Zaharia (UC Berkeley), Ion Stoica (UC Berkeley)</i>
p13	Making Middleboxes Someone Else's Problem: Network Processing as a Cloud Service <i>Justine Sherry (UC Berkeley), Shaddi Hasan (UC Berkeley), Colin Scott (UC Berkeley), Arvind Krishnamurthy (University of Washington), Sylvia Ratnasamy (UC Berkeley), Vyas Sekar (Intel Labs)</i>
p25	HyperDex: A Distributed, Searchable Key-Value Store <i>Robert Escriva (Cornell University), Bernard Wong (University of Waterloo), Emin Gün Sirer (Cornell University)</i>
Session 2: Wireless Communication Session Chair: Jon Crowcroft	
p37	Picasso: Flexible RF and Spectrum Slicing <i>Steven Hong (Stanford University), Jeff Mehlman (Stanford University), Sachin Katti (Stanford University)</i>
p49	Spinal Codes <i>Jonathan Perry (MIT), Peter A. Iannucci (MIT), Kermin Elliott Fleming (MIT), Hari Balakrishnan (MIT), Devavrat Shah (MIT)</i>
p61	Efficient and Reliable Low-Power Backscatter Networks <i>Jue Wang (MIT), Haitham Hassanieh (MIT), Dina Katabi (MIT), Piotr Indyk (MIT)</i>
Session 3: Data Centers: Latency Session Chair: Sachin Katti	
p115	Deadline-Aware Datacenter TCP (D2TCP) <i>Balajee Vamanan (Purdue University), Jahangir Hasan (Google Inc.), T. N. Vijaykumar (Purdue University)</i>
p127	Finishing Flows Quickly with Preemptive Scheduling <i>Chi-Yao Hong (University of Illinois at Urbana-Champaign), Matthew Caesar (University of Illinois at Urbana-Champaign), P. Brighten Godfrey (University of Illinois at Urbana-Champaign)</i>
p139	DeTail: Reducing the Flow Completion Time Tail in Datacenter Networks <i>David Zats (UC Berkeley), Tathagata Das (UC Berkeley), Prashanth Mohan (UC Berkeley), Dhruva Borthakur (Facebook), Randy Katz (UC Berkeley)</i>
Session 4: Measuring Networks Session Chair: Sergey Gorinsky	
p151	Inferring Visibility: Who's (not) talking to whom? <i>Gonca Gursun (Boston University), Natali Ruchansky (Boston University), Evimaria Terzi (Boston University), Mark Crovella (Boston University)</i>
p163	Anatomy of a Large European IXP <i>Bernhard Ager (ETH Zurich), Nikolaos Chatzis (TU Berlin / T-Labs), Anja Feldmann (TU Berlin / T-Labs), Nadi Sarrar (TU Berlin / T-Labs), Steve Uhlig (Queen Mary, University of London), Walter Willinger (AT&T Labs-Research)</i>
p175	Measuring and Fingerprinting Click-Spam in Ad Networks <i>Vacha Dave (MSR India and UT Austin), Saikat Guha (Microsoft Research India), Yin Zhang (Univ. of Texas at Austin)</i>
Session 5: Data Centers: Resources Management Session Chair: Emin Gün Sirer	
p187	FairCloud: Sharing The Network In Cloud Computing <i>Lucian Popa (HP Labs), Gautam Kumar (UC Berkeley), Mosharaf Chowdhury (UC Berkeley), Arvind</i>

	<i>Krishnamurthy (Univ. of Washington), Sylvia Ratnasamy (UC Berkeley), Ion Stoica (UC Berkeley)</i>
p199	The Only Constant is Change: Incorporating Time-Varying Network Reservations in Data Centers <i>Di Xie (Purdue University), Ning Ding (Purdue University), Y. Charlie Hu (Purdue University), Ramana Kompella (Purdue University)</i>
p211	It's Not Easy Being Green <i>Peter Xiang Gao (University of Waterloo), Andrew R Curtis (University of Waterloo), Bernard Wong (University of Waterloo), S. Keshav (University of Waterloo)</i>
Session 6: Wireless and Mobile Networking Session Chair: Srinivasan Seshan	
p223	Flashback: Decoupled Lightweight Wireless Control <i>Asaf Cidon (Stanford University), Kanthi Nagaraj (Stanford University), Sachin Katti (Stanford University), Pramod Viswanath (UIUC)</i>
p235	MegaMIMO: Scaling Wireless Capacity with User Demand <i>Hariharan Rahul (MIT CSAIL), Swarun Suresh Kumar (MIT CSAIL), Dina Katabi (MIT CSAIL)</i>
p247	TUBE: Time Dependent Pricing for Mobile Data <i>Sangtae Ha (Princeton University), Soumya Sen (Princeton University), Carlee Joe-Wong (Princeton University), Youngbin Im (Seoul National University), Mung Chiang (Princeton University)</i>
p259	CarSpeak: A Content-Centric Network for Autonomous Driving <i>Swarun Kumar (Massachusetts Institute of Technology), Lixin Shi (Massachusetts Institute of Technology), Stephanie Gil (Massachusetts Institute of Technology), Nabeel Ahmed (Massachusetts Institute of Technology), Dina Katabi (Massachusetts Institute of Technology), Daniela Rus (Massachusetts Institute of Technology)</i>
Session 7: Network Formalism and Algorithmics Session Chair: Matt Caesar	
p311	Perspectives on Network Calculus - No Free Lunch, But Still Good Value <i>Florin Ciucu (Telekom Innovation Laboratories / TU Berlin), Jens Schmitt (University of Kaiserslautern)</i>
p323	Abstractions for Network Update <i>Mark Reitblatt (Cornell University), Nate Foster (Cornell University), Jennifer Rexford (Princeton University), Cole Schlesinger (Princeton University), David Walker (Princeton University)</i>
p335	A Smart Pre-Classifer to Reduce Power Consumption of TCAMs for Multi-dimensional Packet Classification <i>Yadi Ma (University of Wisconsin-Madison), Suman Banerjee (University of Wisconsin-Madison)</i>
Session 8: Streaming and Content Networking Session Chair: Fabián Bustamante	
p347	ShadowStream: Performance Evaluation as a Capability in Production Internet Live Streaming Networks <i>Chen Tian (Yale University), Richard Alimi (Google), Y. R. Yang (Yale University), David Zhang (PPLive)</i>
p359	A Case for a Coordinated Internet-Scale Video Control Plane <i>Xi Liu (Conviva), Florin Dobrian (Conviva), Henry Milner (Conviva), Junchen Jiang (CMU), Vyas Sekar (Intel Labs), Ion Stoica (Conviva/UC Berkeley), Hui Zhang (Conviva/CMU)</i>
p371	Optimizing Cost and Performance for Content Multihoming <i>Hongqiang Harry Liu (Yale University), Ye Wang (Yale University), Yang Richard Yang (Yale University), Hao Wang (Google), Chen Tian (Yale University)</i>
Session 9: Routing Session Chair: Craig Partridge	
p383	Private and verifiable interdomain routing decisions <i>Mingchen Zhao (University of Pennsylvania), Wenchao Zhou (University of Pennsylvania), Alexander J. T. Gurney (University of Pennsylvania), Andreas Haeberlen (University of Pennsylvania), Micah Sherr (Georgetown University), Boon Thau Loo (University of Pennsylvania)</i>
p395	LIFEGUARD: Practical Repair of Persistent Route Failures

	<i>Ethan Katz-Bassett (University of Washington / University of Southern California), Colin Scott (University of California, Berkeley), David R. Choffnes (University of Washington), Íalo Cunha (UFMG, Brazil), Vytautas Valancius (Georgia Tech), Nick Feamster (University of Maryland), Harsha V. Madhyastha (University of California, Riverside), Tom Anderson (University of Washington), Arvind Krishnamurthy (University of Washington)</i>
p407	On-Chip Networks from a Networking Perspective: Congestion and Scalability in Many-Core Interconnects <i>George Nychis (Carnegie Mellon University), Chris Fallin (Carnegie Mellon University), Thomas Moscibroda (Microsoft Research Asia), Onur Mutlu (Carnegie Mellon University), Srinivasan Seshan (Carnegie Mellon University)</i>
Session 10: Data Centers: Network Resilience Session Chair: Bruce Maggs	
p419	NetPilot: Automating Datacenter Network Failure Mitigation <i>Xin Wu (Duke University), Daniel Turner (University of California, San Diego), Chao-Chih Chen (University of California, Davis), David A. Maltz (Microsoft), Xiaowei Yang (Duke University), Lihua Yuan (Microsoft), Ming Zhang (Microsoft)</i>
p431	Surviving Failures in Bandwidth-Constrained Datacenters <i>Peter Bodik (Microsoft Research), Ishai Menache (Microsoft Research), Mosharaf Chowdhury (UC Berkeley), Pradeepkumar Mani (Microsoft), David A. Maltz (Microsoft), Ion Stoica (UC Berkeley)</i>
p443	Mirror Mirror on the Ceiling: Flexible Wireless Links for Data Centers <i>Xia Zhou (UC Santa Barbara), Zengbin Zhang (UC Santa Barbara), Yibo Zhu (UC Santa Barbara), Yubo Li (Xi'an Jiaotong University, China), Saipriya Kumar (UC Santa Barbara), Amin Vahdat (Google/UC San Diego), Ben Y. Zhao (UC Santa Barbara), Haitao Zheng (UC Santa Barbara)</i>