



















- [9] M. Alizadeh, A. Greenberg, D. A. Maltz, J. Padhye, P. Patel, B. Prabhakar, S. Sengupta, and M. Sridharan. Data center tcp (dctcp). In *Proc. ACM SIGCOMM*, 2010.
- [10] D. G. Andersen, H. Balakrishnan, M. F. Kaashoek, and R. Morris. Resilient Overlay Networks. In *Proc. SOSP*, 2001.
- [11] F. Aslam, S. Raza, F. R. Dogar, I. U. Ahmad, and Z. A. Uzmi. Npp: A facility based computation framework for restoration routing using aggregate link usage information. In *International workshop on quality of service in multiservice IP networks*, 2004.
- [12] M. Balakrishnan, T. Mariani, K. Birman, H. Weatherspoon, and E. Vollset. Maelstrom: Transparent Error Correction for Lambda Networks. In *Proc. Usenix NSDI*, 2008.
- [13] T. Benson, A. Akella, and D. A. Maltz. Network traffic characteristics of data centers in the wild. In *Proc. ACM IMC*, 2010.
- [14] J.-C. Bolot. End-to-end packet delay and loss behavior in the internet. In *Proc. ACM SIGCOMM*, 1993.
- [15] M. Calder, X. Fan, Z. Hu, E. Katz-Bassett, J. Heidemann, and R. Govindan. Mapping the expansion of google’s serving infrastructure. In *Proc. ACM IMC*, 2013.
- [16] Y. Chen, R. Mahajan, B. Sridharan, and Z.-L. Zhang. A provider-side view of web search response time. 2013.
- [17] Y.-C. Chiu, B. Schlinker, A. B. Radhakrishnan, E. Katz-Bassett, and R. Govindan. Are we one hop away from a better internet? In *Proc. ACM IMC*, 2015.
- [18] M. Dahlin, B. B. V. Chandra, L. Gao, and A. Nayate. End-to-end wan service availability. *IEEE/ACM Transactions on Networking (TON)*, 11(2):300–313, 2003.
- [19] F. R. Dogar and P. Steenkiste. M2: Using Visible Middleboxes to Serve Pro-active Mobile-Hosts. In *Proc. ACM SIGCOMM MobiArch*, 2008.
- [20] F. R. Dogar and P. Steenkiste. Architecting for Edge Diversity: Supporting Rich Services Over an Unbundled Transport. In *Proc. ACM CoNext*, 2012.
- [21] F. R. Dogar, Z. A. Uzmi, and S. M. Baqai. Caip: a restoration routing architecture for diffserv aware mpls traffic engineering. In *Proc. IEEE DRCN 2005*, 2005.
- [22] F. R. Dogar, A. Phanishayee, H. Pucha, O. Ruwase, and D. G. Andersen. Ditto: a system for opportunistic caching in multi-hop wireless networks. In *ACM MobiCom*, 2008.
- [23] F. R. Dogar, P. Steenkiste, and K. Papagiannaki. Catnap: Exploiting high bandwidth wireless interfaces to save energy for mobile devices. In *Proc. ACM MobiSys*, 2010.
- [24] T. Flach, N. Dukkipati, A. Terzis, B. Raghavan, N. Cardwell, Y. Cheng, A. Jain, S. Hao, E. Katz-Bassett, and R. Govindan. Reducing web latency: the virtue of gentle aggression. In *Proc. ACM SIGCOMM*, 2013.
- [25] P. K. Gummadi, H. V. Madhyastha, S. D. Gribble, H. M. Levy, D. Wetherall, et al. Improving the Reliability of Internet Paths with One-hop Source Routing. In *Proc. Usenix OSDI*, 2004.
- [26] D. Han, A. Anand, F. R. Dogar, B. Li, H. Lim, M. Machado, A. Mukundan, W. Wu, A. Akella, D. G. Andersen, et al. XIA: Efficient Support for Evolvable Internetworking. In *Proc. Usenix NSDI*, 2012.
- [27] O. Haq and F. R. Dogar. Leveraging the Power of the Cloud for Reliable Wide Area Communication. In *Proc. ACM Hotnets*, 2015.
- [28] C.-Y. Hong, S. Kandula, R. Mahajan, M. Zhang, V. Gill, M. Nanduri, and R. Wattenhofer. Achieving high utilization with software-driven WAN. In *Proc. SIGCOMM*, 2013.
- [29] P. Hurtig, W. John, and A. Brunström. Recent trends in tcp packet-level characteristics. In *Proc. ICNS*, 2011.
- [30] A. M. Iftikhar, F. Dogar, and I. A. Qazi. Towards a redundancy-aware network stack for data centers. In *Proc. HotNets*, 2016.
- [31] S. Jain, A. Kumar, S. Mandal, J. Ong, L. Poutievski, A. Singh, S. Venkata, J. Wanderer, J. Zhou, M. Zhu, et al. B4: Experience with a globally-deployed software defined WAN. In *Proc. SIGCOMM*, 2013.
- [32] S. Kandula, I. Menache, R. Schwartz, and S. R. Babbula. Calendaring for wide area networks. 2014.
- [33] S. Khattak, D. Fifield, S. Afroz, M. Javed, S. Sundaresan, V. Paxson, S. J. Murdoch, and D. McCoy. Do You See What I See? Differential Treatment of Anonymous Users. In *Proc. NDSS*, 2016.
- [34] A. Li, X. Yang, S. Kandula, and M. Zhang. Cloudcmp: comparing public cloud providers. In *Proc. ACM IMC*, 2010.
- [35] H. V. Madhyastha, E. Katz-Bassett, T. E. Anderson, A. Krishnamurthy, and A. Venkataramani. iplane nano: Path prediction for peer-to-peer applications. In *Proc. Usenix NSDI*, 2009.
- [36] E. Nordstrom, D. Shue, P. Gopalan, R. Kiefer, M. Arye, S. Ko, J. Rexford, and M. J. Freedman. Serval: An end-host stack for service-centric networking. In *Proc. 9th USENIX NSDI*, San Jose, CA, April 2012.
- [37] A. Pathak, Y. A. Wang, C. Huang, A. Greenberg, Y. C. Hu, R. Kern, J. Li, and K. W. Ross. Measuring and evaluating TCP splitting for cloud services. In *Proc. of PAM*, 2010.
- [38] V. Paxson. End-to-end internet packet dynamics. In *Proc. ACM SIGCOMM*, 1997.
- [39] R. K. Sitaraman, M. Kasbekar, W. Lichtenstein, and M. Jain. Overlay networks: An akamai perspective. In *Advanced Content Delivery, Streaming, and Cloud Services*. John Wiley & Sons, 2014.
- [40] A.-J. Su, D. R. Choffnes, A. Kuzmanovic, and F. E. Bustamante. Drafting behind akamai (travelocity-based detouring). In *Proc. ACM SIGCOMM*, 2006.
- [41] S. Sundaresan, W. de Donato, N. Feamster, R. Teixeira, S. Crawford, and A. Pescapè. Broadband internet performance: A view from the gateway. In *Proc. ACM SIGCOMM*, 2011.
- [42] D. B. Terry, V. Prabhakaran, R. Kotla, M. Balakrishnan, M. K. Aguilera, and H. Abu-Libdeh. Consistency-based service level agreements for cloud storage. In *Proc. ACM SOSP*, 2013.
- [43] R. Viswanathan, G. Ananthanarayanan, and A. Akella. Clarinet: Wan-aware optimization for analytics queries. In *Proc. OSDI*, 2016.
- [44] A. Vulimiri, C. Curino, B. Godfrey, J. Padhye, and G. Varghese. Global analytics in the face of bandwidth and regulatory constraints. In *Proc. Usenix NSDI*, 2015.
- [45] Z. Wu, M. Butkiewicz, D. Perkins, E. Katz-Bassett, and H. V. Madhyastha. Spanstore: Cost-effective geo-replicated storage spanning multiple cloud services. In *Proc. ACM SOSP*, 2013.
- [46] Y. Xu, C. Yu, J. Li, and Y. Liu. Video telephony for end-consumers: measurement study of Google+, iChat, and Skype. In *Proc. ACM IMC*, 2012.
- [47] H. Zhang, K. Chen, W. Bai, D. Han, C. Tian, H. Wang, H. Guan, and M. Zhang. Guaranteeing deadlines for inter-datacenter transfers. In *Proc. EuroSys*, 2015.