

CONTACT INFORMATION	Chair of Connected Mobility, I11 Department of Informatics Technische Universität München Boltzmannstraße 3, Garching bei München 85748, Germany	✉ bajpaiv@in.tum.de 🌐 www.vaibhavbajpai.com
RESEARCH INTERESTS	Future Internet Protocols, Content Delivery, Network Management, Reproducibility	
AWARDS	ACM SIGCOMM Best Paper Award IEEE ComSoc Award for the Best Dissertation in Network and Service Management	2018 2017
EDUCATION	Jacobs University Bremen , Germany – Doctor of Philosophy, Computer Science – Master of Science, Computer Science Uttar Pradesh Technical University , India – Bachelor of Technology, Computer Science and Engineering	2012 – 2016 2010 – 2012 2005 – 2009
APPOINTMENTS	Technische Universität München , Germany (– advised by Prof. Jörg Ott) – Postdoctoral Fellow Jacobs University Bremen , Germany (– advised by Prof. Jürgen Schönwälder) – Research Associate Infosys Technologies Ltd , Bangalore, India – Systems Engineer	2017 – 2012 – 2016 2009 – 2010
SELECTED PUBLICATIONS	<u>Vaibhav Bajpai</u> , Jürgen Schönwälder A Longitudinal View of Dual-stacked Websites: Failures, Latency & Happy Eyeballs IEEE/ACM Transactions on Networking (TON) XXX 2019 [ISI Impact: 3.11] https://doi.org/10.1109/TNET.2019.2895165 A.Dhamdhere, D.Clark, A.Garrido, M.Luckie, R.Mok, G.Akiwate, K.Gogia, <u>V.Bajpai</u> , A.Snoeren, k.claffy Inferring Persistently Congested Interdomain Links. ACM SIGCOMM, August 2018 [18%, 40/222] https://doi.org/10.1145/3230543.3230549 <u>Vaibhav Bajpai</u> , Saba Ahsan, Jürgen Schönwälder, Jörg Ott Measuring YouTube Content Delivery over IPv6 ACM SIGCOMM Computer Communication Review (CCR) October 2017 [ISI Impact: 3.81] https://doi.org/10.1145/3155055.3155057 <u>Vaibhav Bajpai</u> , Steffie Jacob Eravuchira, Jürgen Schönwälder Dissecting Last-mile Latency Characteristics ACM SIGCOMM Computer Communication Review (CCR) October 2017 [ISI Impact: 3.81] https://doi.org/10.1145/3155055.3155059 A.Mandalari, A.Lutu, A.Custura, A.Safari, O.Alay, M.Bagnulo, <u>V.Bajpai</u> , A.Brunstrom, J.Ott, M.Mellia, G.Fairhurst Experience: Implications of Roaming in Europe.	TON'19 SIGCOMM'18 Best Paper Award SIGCOMM CCR'17 SIGCOMM CCR'17 MOBICOM'18

ACM MOBICOM (Experience Paper), October 2018 [22.5%, 42/187]
<https://doi.org/10.1145/3241539.3241577>

Vaibhav Bajpai, Jürgen Schönwälder
A Survey on Internet Performance Measurement
Platforms & Standardization Efforts.
IEEE Communications Surveys & Tutorials (COMST)
April 2015: [ISI Impact: 17.2]
<http://dx.doi.org/10.1109/COMST.2015.2418435>

COMST'15

Trinh Viet Doan, Ljubica Pajević, Vaibhav Bajpai, Jörg Ott
Tracing the Path to YouTube: A Quantification of Path Lengths and
Latencies toward Content Caches
IEEE Communications Magazine, November 2018 [ISI Impact: 10.44]
<https://doi.org/10.1109/MCOM.2018.1800132>

COMMAG'18

Vaibhav Bajpai, Jürgen Schönwälder
Network Flow Query Language:
Design, Implementation, Performance & Applications
IEEE Transactions on Network and Service Management (TNSM)
March 2017 [ISI Impact: 3.28]
<http://dx.doi.org/10.1109/TNSM.2016.2633511>

TNSM'17

A.Asrese, S.Eravuchira, V.Bajpai, P.Sarolahti, J.Ott
Measuring Web Latency and Rendering Performance:
Method, Tools & Longitudinal Dataset
IEEE Transactions on Network and Service Management (TNSM)
XXX 2019 [ISI Impact: 3.28]
<https://doi.org/10.1109/TNSM.2019.2896710>

TNSM'19

RESEARCH VISITS	MPI Informatik , DE (– hosted by Prof. Anja Feldmann) – Duration: 1 Week CAIDA , USA (– hosted by Prof. kc claffy) – Duration: 1 Week	11/2018 08/2017
PROJECTS	SSICLOPS – Scalable & Secure Infrastructures for Cloud Operations – Contributions to WP1 and WP5 FLAMINGO – Management of the Future Internet – Responsible for WP1 – Contributions to WP2, WP3, WP4, and WP5 LEONE – From Global Measurements to Local Management – Contributions to WP1, WP2, WP3 and WP4	2017 – 2018 2015 – 2016 2012 – 2015
TEACHING	Lecturer – Technische Universität München – Seminar: Internet of People: Connectivity, Mobility and Privacy – Seminar: Internet Measurements – Seminar: Decentralized Internet Architectures: Opportunities and Challenges – Seminar: Future Internet Protocols: Design Principles and Deployment Guest Lecturer – Technische Universität München – Protocol Design – Connected Mobility Basics – Networked Multimedia Systems Guest Lecturer – Jacobs University Bremen	2019 2017, 2018, 2019 2018 2017, 2018 2018 2018 2017

- Operating Systems 2013, 2014
- Computer Networks 2013, 2014
- Advanced Computer Networks 2012, 2014

Teaching Assistant – Jacobs University Bremen

responsibilities involved preparing and grading assignments

- Internet Measurement and Management Lab 2014
- Computer Networks 2011, 2013, 2014
- Software Engineering Lab 2012
- Algorithms and Data Structures 2011

PC SERVICE

Technical Program Committee:

- IEEE/IFIP Conference on Network and Service Management (CNSM) 2019
- ACM SIGCOMM Workshop on QUIC 2019
- IFIP Traffic Measurement and Analysis Conference (TMA) 2018, 2019
- IFIP Networking 2017, 2018, 2019
- IFIP/IEEE International Symposium on Integrated Network Management (IM) 2017, 2019
- ACM CoNEXT Workshop on QUIC 2018
- ACM SIGCOMM Workshop on Big Data Analytics and Machine Learning (Big-DAMA) 2018
- IEEE/IFIP Network Operations and Management Symposium (NOMS) 2018
- ACM CoNEXT Student Workshop 2017

Jury:

- SIGCOMM Hackathon 2018

Shadow Technical Program Committee:

- Conference on Network and Service Management (CNSM) 2016
- Conference on emerging Networking EXperiments and Technologies (CoNEXT) 2015

External Reviewer:

- IEEE INFOCOM 2018, 2019
- IEEE Communications Magazine (Network & Service Management Series) 2014 – 2019
- IEEE Communications Magazine (Open Call) 2018, 2019
- IEEE Transactions on Network and Service Management (TNSM) 2016 – 2019
- IEEE Communications Magazine (Feature Topic: Green Internet of Things) 2018
- IEEE/ACM Transactions on Networking (TON) 2018
- ACM SIGCOMM Computer Communication Review (CCR) 2016, 2018
- Wiley International Journal of Network Management (IJNM) 2016, 2018
- ACM SIGCOMM Computer Communication Review (CCR) Artefacts Review 2017
- IEEE Communications Surveys and Tutorials (COMST) 2017
- IEEE Communications Magazine (Network Testing & Analytics Series) 2017
- IEEE Communications Magazine (Feature Topic: Human-Driven Edge Computing) 2017
- ACM Transactions on Multimedia Computing, Communications & Applications (TOMM) 2017
- ACM Transactions on Internet Technology (TOIT) 2017
- IFIP Traffic Measurement and Analysis Conference (TMA) 2017
- ACM Multimedia Conference (ACM-MM) 2017
- ACM SIGCOMM Workshop on Network & OS Support for Digital Audio & Video (NOSSDAV) 2017
- IEEE Communications Magazine (Feature Topic: Advances in Networking Software) 2016
- IEEE Communications Magazine (Standards Supplement Series) 2016
- Springer Journal of Network and Systems Management (JNSM) 2014, 2016
- IEEE Communications Letters 2016
- Wiley International Journal of Network Management (IJNM) 2016
- IEEE Conference on Network and Service Management (CNSM) 2015
- IFIP/IEEE International Symposium on Integrated Network Management (IM) 2013, 2015
- Conference on Autonomous Infrastructure, Management and Security (AIMS) 2013, 2014
- IFIP Networking Conference 2014
- IEEE/IFIP Network Operations and Management Symposium (NOMS) 2014

ORGANISER	Dagstuhl Seminar (#18412). <i>Encouraging Reproducibility</i>	2018
	https://www.dagstuhl.de/18412	
	TMA Shadow PC. <i>Traffic Measurement and Analysis Conference Shadow PC</i>	2018
	http://tma.ifip.org/2018/shadow-pc	
COORDINATOR	MIR. <i>Munich Internet Research Retreat</i>	2017, 2018
	https://www.cm.in.tum.de/mir3	
	Dagstuhl Seminar (#16012). <i>Global Measurement Practice and Experience</i>	2016
	https://www.dagstuhl.de/16012	
UNIVERSITY SERVICES	CM Doctoral Retreat. <i>TU Munich Connected Mobility Doctoral Retreat</i>	2017, 2018
	https://www.cm.in.tum.de/doctoral-seminar	
	TUM Admissions Committee for CS Masters Applications.	2017–
MENTORING	Doctoral Students (– funded by Jörg Ott)	
	– Trinh Viet Doan. <i>Decentralised Internet</i>	2018–
	– Alemnew Sheferaw Asrese. <i>Measuring Web Latency and Rendering Performance</i>	2017–
	– Stefan Neumeier. <i>Teleoperated Driving by Using a Predictive Virtual Model Based Approach</i>	2017–
	– Ermias Walelgne. <i>Measuring Performance and Stability in Cellular Networks</i>	2017–
	Master Students	
	– Dinh Nguyen. <i>A Longitudinal Analysis of QoE using the Google CRUX Dataset</i>	2019
	– David Nguyen. <i>A Deep Dive into Netflix Performance and QoE</i>	2019
	– Tat Dat Pham. <i>Comparison of (de-)centralised Video Streaming Platforms over Mobile Networks</i>	2019
	– Rohit Gupta. <i>A Longitudinal View of FCC Dataset on Broadband Performance</i>	2019
	– Rohit Panda. <i>Evaluating Web and Video Content Delivery over Google QUIC</i>	2019
	– Jeslin Thomas John. <i>Performance Measurements and Evaluations of Centralized DNS Services</i>	2018
	– Taimoor Alam. <i>Cross-media Sensor Data Synchronisation for Teleoperated Driving</i>	2018
	– Sornrakitch Thanumaiweerakun. <i>An Active Measurement Tool for P2P-based Video Streaming</i>	2018
	– Sergey Podanev. <i>Measuring YouTube Content Delivery over Google QUIC</i>	2018
	– Abhishek Kapoor. <i>Measuring NetFlix Performance over IPv6</i>	2018
	– Trinh Viet Doan. <i>Quantifying Latency and Path Lengths of Content Caches</i>	2017
	– Steffie Jacob Eravuchira. <i>Measuring Webpage Similarity from Dual-Stacked Hosts</i>	2015
	– Corneliu-Claudiu Prodescu. <i>IPFIX support for NFQL</i>	2013
	Bachelor Students	
	– Felix Bergmann. <i>Evaluating the Adoption and Performance of TLS 1.3</i>	2019
	– Florian Sprang. <i>Interactive Dashboard of Content Delivery using Longitudinal Datasets</i>	2019
	– Luca Schumann. <i>Impact of Packet Loss and its Implications on Content Delivery using QUIC</i>	2019
	– Altan Kesan. <i>Investigation of Mobile Roaming in Europe using a Netalyzr Dataset</i>	2018
	– Justus Fries. <i>Measuring the Extend of CDN Centralisation on the Web</i>	2018
	– Markus Oberprieler. <i>A Mobile App to measure a Decentralised Video Streaming Platform</i>	2018
	– Bernhard Jaeger. <i>Measuring Google QUIC Connect Times</i>	2018
	– Stefan Su. <i>Correlating YouTube QoE with Content Delivery Paths</i>	2018
	– Martin Kunzmann. <i>Analysing the Impact of CDNs on IPv6 performance</i>	2018
	– Muhammed Sahin. <i>Analysing the Impact of CDNs on IPv6 penetration</i>	2018
	– Ozan Kaya. <i>Comparison of IPv4 and IPv6 Geolocation Accuracy</i>	2017
	– Otar Bichiashvil. <i>Large-scale TCP throughput performance measurement over IPv4 and IPv6</i>	2015
	– Vlad Victor Ungureanu. <i>LMAP Protocol Implementation</i>	2015
	– Durim Morina. <i>A front-end parser for NFQL</i>	2013
	– Mjellma Berisha. <i>NETCONF over TLS implementation</i>	2013
JOURNAL PUBLICATIONS	Vaibhav Bajpai, Jürgen Schönwälder A Longitudinal View of Dual-stacked Websites: Failures, Latency & Happy Eyeballs IEEE/ACM Transactions on Networking (TON) XXX 2019: [ISI Impact: 3.11] IETF 99 presentation: https://goo.gl/Xd42wf	TON'19

<https://doi.org/10.1109/TNET.2019.2895165>

A.Asrese, S.Eravuchira, V.Bajpai, P.Sarolahti, J.Ott
Measuring Web Latency and Rendering Performance:
Method, Tools & Longitudinal Dataset
IEEE Transactions on Network and Service Management (TNSM)
XXX 2019 [ISI Impact: 3.28]
<https://doi.org/10.1109/TNSM.2019.2896710>.

TNSM'19

Trinh Viet Doan, Ljubica Pajević, Vaibhav Bajpai, Jörg Ott
Tracing the Path to YouTube: A Quantification of Path Lengths and
Latencies toward Content Caches
IEEE Communications Magazine, November 2018 [ISI Impact: 10.44]
<https://doi.org/10.1109/MCOM.2018.1800132>
RIPE 77 presentation: <https://ripe77.ripe.net/archives/video/2253>

COMMAG'18

Vaibhav Bajpai, Saba Ahsan, Jürgen Schönwälder, Jörg Ott
Measuring YouTube Content Delivery over IPv6
ACM SIGCOMM Computer Communication Review (CCR)
October 2017 [ISI Impact: 3.81]
<https://doi.org/10.1145/3155055.3155057>
IETF 99 presentation: <https://goo.gl/YbyqoD>
APNIC labs coverage: <https://goo.gl/mCEjEX>

SIGCOMM CCR'17

Vaibhav Bajpai, Steffie Jacob Eravuchira, Jürgen Schönwälder
Dissecting Last-mile Latency Characteristics
ACM SIGCOMM Computer Communication Review (CCR)
October 2017 [ISI Impact: 3.81]
<https://doi.org/10.1145/3155055.3155059>

SIGCOMM CCR'17

Vaibhav Bajpai, Jürgen Schönwälder
Network Flow Query Language: Design, Implementation, Performance & Applications
IEEE Transactions on Network and Service Management (TNSM)
March 2017 [ISI Impact: 3.28]
<http://dx.doi.org/10.1109/TNSM.2016.2633511>.

TNSM'17

Vaibhav Bajpai, Steffie Jacob Eravuchira, Jürgen Schönwälder
Lessons Learned from using the RIPE Atlas Platform for Measurement Research
ACM Computer Communication Review (CCR Editorial)
July 2015 [ISI Impact: 3.81]
<http://dx.doi.org/10.1145/2805789.2805796>
RIPE 68 presentation: <https://goo.gl/A7o79y>

SIGCOMM CCR'15

Editorial

Vaibhav Bajpai, Jürgen Schönwälder
A Survey on Internet Performance Measurement Platforms & Standardization Efforts.
IEEE Communications Surveys & Tutorials (COMST)
April 2015: [ISI Impact: 17.2]
<http://dx.doi.org/10.1109/COMST.2015.2418435>

COMST'15

CONFERENCE
PUBLICATIONS

A.Asrese, E.Walelgne V.Bajpai, A.Lutu, O.Alay, J.Ott
Measuring Web Quality of Experience in Cellular Networks
Passive and Active Measurement Conference, March 2019 [26.6%, 20/75]

PAM'19

A.Mandalari, A.Lutu, A.Custura, A.Safari, O.Alay,
M.Bagnulo, V.Bajpai, A.Brunstrom, J.Ott, M.Mellia, G.Fairhurst
Experience: Implications of Roaming in Europe.
ACM MOBICOM (Experience Paper), October 2018 [22.5%, 42/187]
<https://doi.org/10.1145/3241539.3241577>

MOBICOM'18

A.Dhamdhere, D.Clark, A.Garrido, M.Luckie, R.Mok,

- G.Akiwate, K.Gogia, V.Bajpai, A.Snoeren, k.claffy
Inferring Persistently Congested Interdomain Links.
ACM SIGCOMM, August 2018 [18%, 40/222]
<https://doi.org/10.1145/3230543.3230549>
SIGCOMM'18
Best Paper Award
- E.Walelgne, S.Kim, V.Bajpai, S.Neumeier, J.Manner, J.Ott
Factors Affecting Web Flows in Cellular Networks
IFIP Networking, Zürich, May 2018 [24.4%, 55/225]
RIPE 77 presentation: <https://goo.gl/YL2aRL>
IFIP NETWORKING'18
- Ermias Walelgne, Jukka Manner, Vaibhav Bajpai, Jörg Ott
Analyzing Throughput and Stability in Cellular Networks
Network Operations & Management Symposium, Apr 2018 [32.2%, 56/174]
<https://doi.org/10.1109/NOMS.2018.8406261>
NOMS'18
- Ricky Mok, Vaibhav Bajpai, Amogh Dhamdhere, kc claffy
Revealing the Load Balancing Behavior of YouTube Traffic on Interdomain Links
Passive and Active Measurement Conference (PAM), Mar 2018 [40%, 20/50]
https://doi.org/10.1007/978-3-319-76481-8_17
PAM'18
- Vaibhav Bajpai, Jürgen Schönwälder
Understanding the Impact of Network Infrastructure Changes
Using Large-Scale Measurement Platforms
Symposium on Integrated Network Management, May 2017
<https://doi.org/10.23919/INM.2017.7987382>
IM'17
Best Dissertation Digest Award
- V.Bajpai, S.Eravuchira, J.Schönwälder, R.Kisteleki, E.Aben
Vantage Point Selection for IPv6 Measurements:
Benefits & Limitations of RIPE Atlas Tags
Symposium on Integrated Network Management, May 2017 [28.6%, 44/154]
<https://doi.org/10.23919/INM.2017.7987262>
RIPE 72 presentation: <https://goo.gl/AQj2WN>
IM'17
- S. Eravuchira, V.Bajpai, J.Schönwälder, S.Crawford
Measuring Web Similarity from Dual-stacked Hosts
Conference on Network & Service Management, Oct 2016 [27.6%, 32/116]
<https://doi.org/10.1109/CNSM.2016.7818415>
RIPE 72 presentation: <https://goo.gl/pUry46>
CNSM'16
- Vaibhav Bajpai, Jürgen Schönwälder
IPv4 versus IPv6 – Who connects faster?
IFIP Networking Conference, May 2015 [23.2%, 47/202]
<http://dx.doi.org/10.1109/IFIPNetworking.2015.7145323>
IFIP NETWORKING'15
- Saba Ahsan, Vaibhav Bajpai, Jörg Ott, Jürgen Schönwälder
Measuring YouTube from Dual-Stacked Hosts
Passive and Active Measurement Conference, March 2015 [27%, 27/100].
http://dx.doi.org/10.1007/978-3-319-15509-8_19
Invited at Workshop on Research & Applications of Internet Measurements, Oct 2015
PAM'15
- Vaibhav Bajpai, Johannes Schauer, Jürgen Schönwälder
NFQL: A Tool for Querying Network Flow Records
International Symposium on Integrated Network Management, May 2013
<https://goo.gl/dpw4uR>
IETF 87 presentation: <https://goo.gl/w178yy>
IM'13
- V.Bajpai, V. Bashko, C.David, S.Kuryla, V.Perelman, J.Schauer,
N.Melnikov, A.Sehgal, J.Schönwälder
Design & Prototype Implementation of the WattsApp Telemetry Platform

International Conference on Green Computing and Communications, Nov 2012
<http://dx.doi.org/10.1109/GreenCom.2012.21>

Vaibhav Bajpai, Vladislav Perelman
A 3D Object Reconstruction System using a Laser Line Projector
IEEE Germany Student Conference (GSC), November 2012
<https://goo.gl/oPcE4P>

Vaibhav Bajpai, Nikolay Melnikov, Anuj Sehgal, Jürgen Schönwälder,
Flow-based Identification of Failures Caused by IPv6 Transition Mechanisms
Autonomous Infrastructure, Management & Security, June 2012 [43.5%, 10/23]
http://dx.doi.org/10.1007/978-3-642-30633-4_19

AIMS'12

IETF RFCs

Jürgen Schönwälder, Vaibhav Bajpai
A YANG Data Model for LMAP Measurement Agents
IETF RFC 8194, August 2017
<http://dx.doi.org/10.17487/RFC8194>

RFC 8194

WORKSHOP PUBLICATIONS

V.Bajpai, M.Kühlewind, J.Ott, J.Schönwälder, A.Sperotto, B.Trammell
Challenges with Reproducibility
ACM SIGCOMM 2017 Reproducibility Workshop, August 2017.
<https://doi.org/10.1145/3097766.3097767>

SIGCOMM WORKSHOP'17

Vaibhav Bajpai, Jürgen Schönwälder
Measuring the Effects of Happy Eyeballs
Applied Networking Research Workshop, July 2016. [30%, 9/30]
<http://dx.doi.org/10.1145/2959424.2959429>
Register coverage: <https://goo.gl/XGsLtJ>
APNIC labs coverage: <https://goo.gl/xzJbtQ>

IRTF ANRW'16

Vaibhav Bajpai, Jürgen Schönwälder
Understanding the Impact of Network Infrastructure Changes using
Large-Scale Measurement Platforms
Autonomous Infrastructure, Management & Security, June 2013. [50%, 7/14]
http://dx.doi.org/10.1007/978-3-642-38998-6_5

AIMS'13

EDITORIALS

V.Bajpai, A.Brunstrom, A.Feldmann, W.Kellerer, A.Pras,
H.Schulzrinne, G.Smaragdakis, M.Wählich, K.Wehrle
The Dagstuhl Beginners Guide to Reproducibility
for Experimental Networking Research
ACM Computer Communication Review (CCR Editorial), Jan 2019

SIGCOMM CCR'19
Editorial

Matthias Flittner, Mohamed Mahfoudi, Damien Saucez, Matthias Wählich,
Luigi Iannone, Vaibhav Bajpai, Alex Afanasyev
A Survey on Artifacts from CoNEXT, ICN, IMC, & SIGCOMM in 2017
ACM Computer Communication Review (CCR Editorial)
Jan 2018 <https://doi.org/10.1145/3211852.3211864>
Dataset: <https://artefacts.cm.in.tum.de/2017>

SIGCOMM CCR'18
Editorial

THESIS

Vaibhav Bajpai
Understanding the Impact of Network Infrastructure Changes
using Large-Scale Measurement Platforms
PhD Thesis, Jacobs University Bremen, August 2016
<http://nbn-resolving.de/urn:nbn:de:gbv:579-opus-1005861>

PhD'16

Vaibhav Bajpai
Network Flow Query Language
Masters Thesis, Jacobs University Bremen, August 2012
<http://cnds.eecs.jacobs-university.de/archive/msc-2012-vbajpai.pdf>

MSc'12

- EVENT REPORTS
- Vaibhav Bajpai, Olivier Bonaventure, Kimberly Claffy, Daniel Karrenberg
Encouraging Reproducibility in Scientific Research of the Internet
(Report on Dagstuhl Seminar #18412)
Reports, Volume X, Issue X, XXX 2019
<https://www.dagstuhl.de/18412>
- V. Bajpai, A.Berger, P.Eardley, J.Ott, J.Schönwälder
Global Measurements: Practice and Experience
(Report on Dagstuhl Seminar #16012)
ACM Computer Communication Review (CCR Editorial)
April 2016 <http://dx.doi.org/10.1145/2935634.2935641>
Dagstuhl Reports, Volume 6, Issue 1, May 2016
<http://dx.doi.org/10.4230/DagRep.6.1.15>
- Vaibhav Bajpai, Jürgen Schönwälder
A Report on the 1st NMRG Workshop on Large Scale Network Measurements
Journal of Network and Systems Management
September 2014 <http://dx.doi.org/10.1007/s10922-014-9328-2>
- POSTERS
- E.Walelgne, A.Asrese, V.Bajpai, J.Ott, J.Manner
Using Crowdsourcing Data for Adaptive Video Streaming in Cellular Network
ACM Mobisys Poster, June 2018
<http://doi.acm.org/10.1145/3210240.3210804>
- E.Walelgne, J.Manner, V.Bajpai, J.Ott
Analyzing the Performance & Stability of Cellular Networks
ACM Internet Measurement Conference (IMC) Poster, Nov 2017
- S.Neumeier, E.Walelgne, V.Bajpai, J.Ott, C.Facchi
Ping on the Move
ACM Internet Measurement Conference (IMC) Poster, Nov 2017
- Vaibhav Bajpai, Radek Krejčí
Managing SamKnows Probes using NETCONF
Network Operations & Management Symposium (NOMS) Poster
May 2014 <http://dx.doi.org/10.1109/NOMS.2014.6838279>
- Vaibhav Bajpai, Jürgen Schönwälder
NETCONF Interoperability Lab
Network Operations & Management Symposium (NOMS) Poster
May 2014 <http://dx.doi.org/10.1109/NOMS.2014.6838278>
- Vaibhav Bajpai, Jürgen Schönwälder
Measuring TCP Connect Times of Dual-Stacked Web Services
Conference on Network and Service Management (CNSM) Poster, Oct 2013
<http://dx.doi.org/10.1109/CNSM.2013.6727822>
- INTERNET DRAFTS
- Jürgen Schönwälder, Vaibhav Bajpai
Using RESTCONF with LMAP Measurement Agents
IETF Internet Draft (I-D), June 2017 [Expired Document]
<http://tools.ietf.org/html/draft-ietf-lmap-restconf-04>
- M.Bagnulo, T.Burbridge, S.Crawford, J.Schönwälder, V.Bajpai
Large Measurement Platform Protocol
IETF Internet Draft (I-D), September 2014 [Expired Document]
<http://tools.ietf.org/html/draft-bagnulo-lmap-http-03>
- Vaibhav Bajpai, Jürgen Schönwälder
Measuring the Effects of Happy Eyeballs
IETF Internet Draft (I-D), July 2013 [Expired Document]

SIGCOMM CCR'16
Editorial

JNSM'14

<http://tools.ietf.org/html/draft-bajpai-happy-01>

TALKS

Vaibhav Bajpai, Jürgen Schönwälder

A Longitudinal View of Dual-stacked Websites: Failures, Latency & Happy Eyeballs
IETF 99 IPv6 Operations Working Group, Prague, Jul 2017

IETF 99

Also presented at Orange R&D, Nov 2017 and CAIDA, San Diego, Aug 2017,

<https://goo.gl/Xd42wf>

Vaibhav Bajpai, Saba Ahsan, Jörg Ott, Jürgen Schönwälder

Measuring YouTube Content Delivery over IPv6

IETF 99

IETF 99 Measurements and Analysis for Protocols Working Group, Prague, Jul 2017

Also presented at Orange R&D, Nov 2017 and CAIDA, San Diego, Aug 2017,

<https://goo.gl/YbyqoD>

Vaibhav Bajpai

Measuring IPv6 Performance

Munich Internet Research Retreat, Raitenhaslach, Nov 2016

<https://goo.gl/ANk2b5>

Vaibhav Bajpai

Understanding the Impact of Network Infrastructure Changes using
Large-scale Measurement Platforms.

TU Munich Doctoral Seminar, Raitenhaslach, Oct 2016

<https://goo.gl/83snjp>

Vaibhav Bajpai, Jürgen Schönwälder

Measuring the Effects of Happy Eyeballs

RIPE 73

RIPE 73 IPv6 Working Group, Madrid, Oct 2016

<https://ripe73.ripe.net/archives/video/1467>

V.Bajpai, S.Eravuchira, J.Schönwälder, S.Crawford

Measuring Webpage Similarity from Dual-Stacked Hosts

RIPE 72

RIPE 72 Plenary, Copenhagen, May 2016

<https://ripe72.ripe.net/archives/video/126>

V.Bajpai, S.Eravuchira, J.Schönwälder, R.Kisteleki, E.Aben

Vantage Point Selection for IPv6 Measurements:

Benefits and Limitations of RIPE Atlas Tags

RIPE 72

MAT Working Group Meeting at RIPE 72, Copenhagen, May 2016

<https://ripe72.ripe.net/archives/video/167>

Vaibhav Bajpai

Measuring IPv6 Performance

DE-CIX, Frankfurt, April 2016.

<https://goo.gl/No9pRS>

M.Bagnulo, T.Burbridge, S.Crawford, J.Schönwälder, V.Bajpai

Large Measurement Platform Protocol

IETF 91

LMAP Working Group Meeting at IETF 91, Honolulu, Nov 2014.

<http://www.ietf.org/proceedings/91/slides/slides-91-lmap-8.pdf>

Steffie Jacob Eravuchira, Vaibhav Bajpai, Jürgen Schönwälder

Measurement Research within the Python3 Ecosystem

RIPE 69

MAT Working Group Meeting at RIPE 69, London, Nov 2014

<https://ripe69.ripe.net/archives/video/10125>

Vaibhav Bajpai, Steffie Jacob Eravuchira, Jürgen Schönwälder

Lessons Learned From Using the RIPE Atlas Platform for Measurement Research

RIPE 68

MAT Working Group Meeting at RIPE 68, Warsaw, May 2014.

<https://ripe68.ripe.net/archives/video/240>

Vaibhav Bajpai, Jürgen Schönwälder
Measuring TCP Connect Times of Dual-Stacked Web Services
IRTF NMRG Workshop on Large-Scale Network Measurements
CNSM 2013, Zürich, October 2013.
<http://goo.gl/3ACsAA>

V.Bajpai, J.Schauer, C.Prodescu, J.Schönwälder
NFQL: A Tool for Querying Network Flow Records IETF 87
IRTF NMRG Workshop on NetFlow/IPFIX at IETF 87, Berlin, July 2013
<http://www.ietf.org/proceedings/87/slides/slides-87-nmrg-0.pdf>

Vaibhav Bajpai, Jürgen Schönwälder IETF 87
Measuring the Effects of Happy Eyeballs
v6ops Working Group Meeting at IETF 87, Berlin, July 2013
<http://www.ietf.org/proceedings/87/slides/slides-87-v6ops-8.pdf>

Vaibhav Bajpai, Jürgen Schönwälder RIPE 66
Measuring the Effectiveness of Happy Eyeballs
IPv6 Working Group Meeting at RIPE 66, Dublin, May 2013.
<https://ripe66.ripe.net/archives/video/1208>
RIPE Labs coverage: <https://goo.gl/1mERYV>

TUTORIALS

Vaibhav Bajpai, Nikolay Melnikov
Large-Scale Measurement Platforms
Autonomous Infrastructure, Management & Security (AIMS), Barcelona, June 2013.
<http://cnds.eecs.jacobs-university.de/tutorials>

INVITED SEMINARS

– MIR. *Munich Internet Research Retreat, Raitenhaslach* 2016
– CM Doctoral Retreat. *TU Munich Connected Mobility Doctoral Retreat, Raitenhaslach* 2016
– Leone/IETF/BBF Workshop. *Large-scale Measurements, Dublin* 2014
– Dagstuhl Seminar (#13472). *Global Measurement Framework, Wadern* 2013

OPEN SOURCE CONTRIBUTIONS

– [youtube](#), A tool to measure youtube performance delivered over IPv4 and IPv6
– [simweb](#), A tool to measure similarity of webpages delivered over IPv4 and IPv6
– [nfql](#), A C implementation of the network flow query language
– [happy](#), A happy eyeballs [RFC 6555] probing tool
– [ncclient](#), A Python library for NETCONF clients
– [libnetconf](#), A NETCONF library in C intended for building NETCONF clients and servers.
– [scamper](#), A scalable and extensible packet prober for active measurement of the Internet
– [mtr](#), A network diagnostic tool
– [homebrew-versions](#), Versioned formulae for the Homebrew package manager

HONORS

– RIPE RACI fellowship to attend RIPE 66 2013
– Graduated with a 1.0 grade on the masters thesis, 1.64 overall GPA in masters 2012
– Graduated as a top student of the class (80.84%) in bachelors 2009
– Ranked 9th amongst bachelor freshmen from 600 colleges affiliated with university 2005
– Graduated as a top student of the class (3rd in city) in XII (93.4%) 2005
– Merit certificate for 100% marks in Computer Science in XII 2005
– Graduated as a top student of the class in X (86.0%) 2003
– Merit certificate for 100% marks in Science in X (felicitated by the State Govt) 2003
– All-India merit position 35th in Junior Mathematics Olympiad 2002

MEMBERSHIPS

– IEEE Membership
– IEEE Communications Society Membership
– Internet Society Membership
– SIGCOMM Membership
– IFIP TC6 Working Group 6.6 Membership

LANGUAGES

- English
- Hindi
- German

fluent
native
A1 level

REFERENCES

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