

Priv.-Doz. Dr. Thomas Dreibholz

Researcher and Developer for Computer Networks



Personal Details

Academic Titles	✓ Priv.-Doz. Dr. rer. nat. Dipl.-Inform.
First Name	✓ Thomas
Surname	✓ Dreibholz
Internet	✓ thomas.dreibholz@gmail.com ✓ https://www.mntb.no/~dreibh
OpenPGP Key	✓ 21412672518D8B2D1862EFEF5CD5D12AA0877B49 (https://www.mntb.no/~dreibh/key.asc) Fingerprint: 2141 2672 518D 8B2D 1862 EFEF 5CD5 D12A A087 7B49
Work Address	✓ Simula Metropolitan Centre for Digital Engineering A/S Centre for Resilient Networks and Applications (CRNA) Pilestredet 52 0167 Oslo Norway

Work Experiences

Current Position

- 2012 – ...
- ✓ Chief Research Engineer at the Simula Metropolitan Centre for Digital Engineering (part of the Simula Research Laboratory) in Oslo, Norway.
<https://www.simula.no>
Responsibilities:
 - **Research:** Multi-Path Transport, Multi-Path TCP (MPTCP), Quality of Service (QoS), Network Security, Network of the Future
 - **Development:** Development and management of the NORNET CORE testbed environment

Work Experiences (continued)

Previous Work Experience

- 2001 – 2012**
- ✓ Associate professor in the Computer Networking Technology Group at the Institute for Experimental Mathematics of the University of Duisburg-Essen in Essen, Germany.
<https://www.tdr.wiwi.uni-due.de>
Responsibilities:
 - **Research:** Stream Control Transmission Protocol (SCTP), Reliable Server Pooling (RSerPool), Flow Routing, Quality of Service, Network Security
 - **Teaching:** Network Protocols, Network Security, Quality of Service, Linux Traffic Control
- 2002 – 2012**
- ✓ Cisco Certified Academy Instructor (CCAI) of the Cisco Networking Academy at the University of Duisburg-Essen in Essen, Germany.
<http://cna.uni-due.de>
Responsibilities:
 - **Teaching:** Cisco Networking Academy (CNA) curriculum
 - **Administration:** Academy, course and student management, Administration of the academy website
- 2000**
- ✓ Research assistant in the Computer Networking Technology Group at the Department of Computer Science IV of the University of Bonn in Bonn, Germany.
<https://net.cs.uni-bonn.de>

Education

- March 2012**
- ✓ **Habilitation (Priv.-Doz.) in Computer Science**
at the University of Duisburg-Essen in Essen, Germany.
 - **Thesis:** Evaluation and Optimisation of Multi-Path Transport using the Stream Control Transmission Protocol
 - **Advisors:** Erwin P. Rathgeb, Ralf Steinmetz, Paul Müller
<https://www.mntb.no/~dreibh/sctp/>
- March 2007**
- ✓ **Ph.D. Degree (Dr. rer. nat.) in Computer Science**
at the University of Duisburg-Essen in Essen, Germany.
 - **Thesis:** Reliable Server Pooling – Evaluation, Optimization and Extension of a Novel IETF Architecture
 - **Advisors:** Erwin P. Rathgeb, Klaus Echte
<https://www.mntb.no/~dreibh/rserpool/>
- October 2002**
- ✓ Certification as **Cisco Certified Network Associate (CCNA)** and **Cisco Certified Academy Instructor (CCAI)** at the Cisco Networking Academy of the University of Duisburg-Essen in Essen, Germany.
<http://cna.uni-due.de>
- May 2001**
- ✓ **Master's Degree in Computer Science (Dipl.-Inform.)**
at the University of Bonn, Germany.
 - **Thesis:** Management of Layered Variable Bitrate Multimedia Streams over DiffServ with A Priori Knowledge
 - **Advisors:** Peter Martini, Armin B. Cremers
<https://www.mntb.no/~dreibh/diplom/index.e.html>
- October 1998**
- ✓ **Bachelor's Degree (Vordiplom) in Computer Science**
at the University of Bonn, Germany.
<https://www.informatik.uni-bonn.de>

Awards

- September 2015** ✓ **Best Paper Award** for the paper “[Eclipse: A New Dynamic Delay-based Congestion Control Algorithm for Background Traffic](#)” at the 18th International Conference on Network-Based Information Systems (NBiS 2015).
- December 2014** ✓ **Best Paper Award** for the paper “[Measuring and Comparing Internet Path Stability in IPv4 and IPv6](#)” at the 5th IEEE International Conference on the Network of the Future (NoF 2014).
- November 2009** ✓ **Science Award** of the Sparkasse Essen for the Ph.D. thesis “[Reliable Server Pooling – Evaluation, Optimization and Extension of a Novel IETF Architecture](#)”.
- November 2009** ✓ **Scientific Research Accomplishments of Institutions of Higher Education of Hainan Province Award** for the research project “Study of Next Generation Internet New Protocol – RSerPool” in cooperation with Hainan University in Haikou, Hainan/China.
- February 2008** ✓ **Best Paper Award** for the paper “[Reliable Server Pooling – A Novel IETF Architecture for Availability-Sensitive Services](#)” at the 2nd IEEE International Conference on Digital Society (ICDS 2008).

Third-Party Funds

- 05/2012 – ...** ✓ Participation in the project realisation of “NORNET” (project number 208798/F50) within the INFRASTRUKTUR program of the Norwegian Research Council (Forskningsrådet).
- 01/2011 – 12/2011** ✓ Participation in application for and realisation of the extended project phase of “Systematic Evaluation and Further Development of the Transport Protocol SCTP” (original title: “Systematische Untersuchung und Weiterentwicklung des Transportprotokolls SCTP”) with the Deutsche Forschungsgemeinschaft (DFG).
- 01/2009 – 12/2010** ✓ Participation in application for and realisation of the first project phase of “Systematic Evaluation and Further Development of the Transport Protocol SCTP” (original title: “Systematische Untersuchung und Weiterentwicklung des Transportprotokolls SCTP”) with the Deutsche Forschungsgemeinschaft.
- 01/2007 – 12/2008** ✓ Participation in application for and realisation of the extended project phase of “Evaluation, Further Development and Standardization of a Protocol Architecture for Provisioning Highly-Available, Distributed Applications in IP Networks” (original title: “Bewertung, Weiterentwicklung und Standardisierung einer Protokollarchitektur für die Bereitstellung hochverfügbarer, verteilter Anwendungen in IP-basierten Netzen”) with the Deutsche Forschungsgemeinschaft.
- 10/2004 – 09/2006** ✓ Participation in application for and realisation of the first project phase of “Evaluation, Further Development and Standardization of a Protocol Architecture for Provisioning Highly-Available, Distributed Applications in IP Networks” (original title: “Bewertung, Weiterentwicklung und Standardisierung einer Protokollarchitektur für die Bereitstellung hochverfügbarer, verteilter Anwendungen in IP-basierten Netzen”) with the Deutsche Forschungsgemeinschaft.
- 12/2002 – 12/2003** ✓ Participation in the project realisation of “QoS Control for Mass-Market Broadband Delivered over DSL Technology” with British Telecom.
- 10/2001 – 03/2005** ✓ Participation in the project realisation of “KING – Key Components for the Internet of the Next Generation” with the German Ministry for Education and Research (Bundesministerium für Bildung und Forschung – BMBF) and Siemens AG.

Open Source Software Projects

- 2017 – ...**
- ✓ **MELODIC – Multi-Cloud Execution-Ware for Large-scale Optimised Data-Intensive Computing**
The vision of the MELODIC project is to enable federated cloud computing for data-intensive applications. Furthermore, it provides the user with an easy-to-use, unified cloud environment, which hides the complexity of a multi-cloud. Particularly, MELODIC combines OpenStack-based cloud systems with the geographic distribution of NorNet sites to provide a realistic test platform.
<https://www.melodic.cloud>
- 2016 – ...**
- ✓ **HENCSAT – Highly Efficient Network Coding for Satellite Applications Testbed**
HENCSAT investigates the benefits of combining Highly Efficient Network Coding (HEVC, H.265) video encoding with torrent transmission and multi-path transport. Goal is to optimise communication services – particularly also using satellite communication – for the communication with unmanned aerial vehicles (UAV) and vehicle convoys in remote areas.
<https://goo.gl/iyXvJE>
- 2016 – ...**
- ✓ **NEAT – A New, Evolutive API and Transport-Layer Architecture for the Internet**
The NEAT project wants to achieve a complete redesign of the way in which Internet applications interact with the network. Goal is to allow network services offered to applications – such as reliability, low-delay communication or security – to be dynamically tailored based on application demands, current network conditions, hardware capabilities or local policies. NEAT therefore particularly also supports multi-path communication with SCTP and Multi-Path TCP (MPTCP).
<https://www.neat-project.org>
- 2015 – ...**
- ✓ **HiPerConTracer – High-Performance Connectivity Tracer**
HIPERCONTRACER is an advanced PING/TRACEROUTE service. It performs regular PING and TRACEROUTE measurements over IPv4 and IPv6 among sites. Results are exported into an SQL database. Analysis scripts can then access this data for research on network connectivity and resilience, as well as for visualising the connectivity within the Internet.
<https://www.nmtb.no/~dreibh/hipercontracer/>
- 2012 – ...**
- ✓ **NorNet Core Testbed**
NORNET is a large-scale Internet research testbed for systems with multi-homing property (i.e. with simultaneous connections to multiple Internet server providers). NORNET CORE denotes its part for wired networks. This Linux-based software consists of a routing layer providing the multi-homing property to research experiments. The research experiments run in virtualised environments, either based on Linux Containers (LXC) or on full virtualisation (VirtualBox and KVM). These environments are hosted at about 20 sites that are distributed all over the world. Use cases for NORNET CORE include research on resilient systems and multi-path transport, particularly with Multi-Path TCP (MPTCP) and SCTP. NORNET CORE furthermore provides a management, monitoring and security infrastructure for the testbed.
<https://www.nmtb.no>
- 2009 – ...**
- ✓ **NetPerfMeter – A Network Performance Metering Tool**
NETPERFMETER is a network performance meter for the UDP, TCP, MPTCP, SCTP and DCCP transport protocols over IPv4 and IPv6. It simultaneously transmits bidirectional flows to an endpoint and measures the resulting flow bandwidths and QoS. The results are written as vector and scalar files. The vector files can be used to create PDF plots of the results.
<https://www.nmtb.no/~dreibh/netperfmeter/>

Open Source Software Projects (continued)

- 2009 – ...
- ✓ **Simulation Model of Concurrent Multipath Transfer for SCTP**
Extensions of the existing SCTP simulation model in OMNET++'s INET Framework to Concurrent Multipath Transfer for SCTP (CMT-SCTP), including an application model for NETPERFMETER to allow for easy comparison between real network measurements and simulations. All extensions have been contributed into the upstream INET Framework project.
<https://inet.omnetpp.org/>
- 2002 – ...
- ✓ **rsplib – Implementation of the Reliable Server Pooling Framework**
RSPLIB is the Open Source implementation of the IETF's Reliable Server Pooling (RSerPool, RFC 5351) framework written in ANSI-C and C++, currently supporting Linux, FreeBSD, MacOS X and Solaris. Its intention is to validate the RSerPool drafts currently under standardization by the IETF and to verify results from my simulative research. As part of my RSerPool research in the context of my Ph.D. Thesis, multiple Internet Drafts have been contributed to the IETF's standardization process. Furthermore, the RSPLIB prototype has become the IETF RSerPool Working Group's reference implementation of RSerPool.
<https://www.mntb.no/~dreibh/rserpool/>
- 2011 – ...
- ✓ **RTP Audio NextGen System**
RTP Audio NextGen is an Open Source audio streaming system with support for SCTP as well as UDP transport. It is a highly advanced and reworked version of the former RTP Audio system with support for SCTP streams and SCTP partial reliability. Furthermore, it also contains a QoS management interface. RTP Audio NextGen may use layered encoding, i.e. the audio quality may be adapted according to QoS constraints. The main purpose of this tool is to support transport protocol and QoS research, by providing a realistic application for performance testing.
<https://www.mntb.no/~dreibh/rtpaudio/>
- 2009 – ...
- ✓ **BibTeXConv – A BIB_TE_X File Converter**
BibTeXConv is a BIB_TE_X file converter which allows to export BIB_TE_X entries to other formats, including customised text output. Furthermore, it provides the possibility to check URLs (including MD5, size and MIME type computations) and to verify ISBN and ISSN numbers.
<https://www.mntb.no/~dreibh/bibtexconv/>
- 2007 – ...
- ✓ **SimProcTC – A Simulation Processing Tool-Chain for OMNET++**
SimProcTC is a model-independent, flexible and powerful tool-chain for the setup, parallel run execution, results aggregation, data analysis and debugging of OMNET++-based simulations, using GNU R and other Open Source software under Linux. It optionally utilises the Reliable Server Pooling (RSerPool) implementation RSPLIB for easily setting up simulation processing pools for distributed execution of simulation runs.
<https://www.mntb.no/~dreibh/omnetpp/>
- 2001 – ...
- ✓ **Socket API implementation for the SCTP Library sctplib**
SCTPLIB is an Open Source userland implementation of the Stream Control Transmission Protocol (SCTP, RFC 4960). The Socket API – realized in C++ and ANSI-C – implements the Unix socket calls (e.g. bind(), connect(), setsockopt(), recvmsg(), ...) for this library. Both packages are multi-platform and support Linux, FreeBSD, MacOS X and Solaris. This project has been a cooperation between the University of Duisburg-Essen, Computer Networking Technology Group at the Institute for Experimental Mathematics and Siemens AG, Munich.
<http://www.sctp.de/sctp.html>

Open Source Software Projects (continued)

- 2003 – ...**
- ✓ **SlideShow – A Program to Create HTML Slideshows**
SlideShow is a C++-based Open Source Linux application generating standards-compliant XHTML-1.1 presentations from a set of image files. It has been created to easily generate online photo albums, including JavaScript-based slideshows.
<https://www.mntb.no/~dreibh/slideshow/>
- 2002 – ...**
- ✓ **SubNetCalc – An IPv4/IPv6 Subnet Address Calculator**
SubNetCalc is a C++-based Open Source program to print various information about a given IPv4 or IPv6 address. It can also identify the address type and extract additional information from the address. Furthermore, it can be used to generate IPv6 Unique Local prefixes.
<https://www.mntb.no/~dreibh/subnetcalc/>
- 2003**
- ✓ **Fractal Generator Project**
FractalGenerator is a KDE-based Open Source program under Linux – written in C++ – to generate fractal images (e.g. the Mandelbrot set). The size of the calculated images is only limited by the computer's virtual memory. This program has been developed as an example for object-oriented programming and creating Qt/KDE applications for the University of Duisburg-Essen's Linux Workshop in 2003.
<https://www.mntb.no/~dreibh/fractalgenerator/>
- 2000 – 2001**
- ✓ **RTP Trace System**
An Open Source, Linux-based real-time network transmission test system using traces of various media types (MPEG 1/2, H.263, MP3, ...). It is realized in C++. This project is part of my Masters Thesis at the University of Bonn, Germany.
https://www.mntb.no/~dreibh/diplom/index_e.html
- 1999 – 2001**
- ✓ **RTP Audio System**
A Linux-based Open Source real-time network audio transmission system, supporting DiffServ, IPv6 and IPv6 flowlabels. Server and clients have been written in C++, a Java client is realized using JNI (Java Native Interface). The system has been a study project at the University of Bonn, Germany; my responsibility has been the implementation of the client/server transmission system itself, including the media codecs and the RTP protocol as well as the client GUI based on the Qt Toolkit.
https://www.mntb.no/~dreibh/rn/index_e.html
- 2000**
- ✓ **Prüfungsamt-Projekt – A Student and Exam Management Tool**
A SQL-based, Open Source database application under Linux – written in C++, using the Qt GUI Toolkit and PostgreSQL – to simplify the work of the University's exams office (Prüfungsamt) using database transactions and triggers. It has been a study project at the University of Bonn, Germany; my responsibilities have been the GUI realization and the SQL trigger implementation.
<https://www.mntb.no/~dreibh/rdbms/>

Technical Competences

Operating Systems

- ✓ AmigaOS (since 1988)
- ✓ AROS (since 1996)
- ✓ Cisco Internet Operating System (since 2001)
- ✓ FreeBSD (since 2001)
- ✓ IBM OS/2 Warp (since 1994)
- ✓ **Linux (since 1994)**
- ✓ Microsoft Windows/MS-DOS (since 1990)

Programming Languages

- ✓ Assembler (Intel x86 since 1992, Motorola 680x0 since 1989)

Technical Competences (continued)

- ✓ Basic (since 1989)
- ✓ Bash (since 1994)
- ✓ **C (since 1989)**
- ✓ **C++ (since 1993)**
- ✓ HTML (since 1996)
- ✓ Java (since 1997)
- ✓ JavaScript (since 2003)
- ✓ Python (since 2012)
- ✓ R (since 2004)
- ✓ SQL (PostgreSQL, MySQL, Oracle; since 2000)

Software Experiences

- ✓ AmigaOS system programming (since 1988)
- ✓ Concurrent Versions System (CVS, since 2001)
- ✓ Git (since 2012)
- ✓ GNU Plot (since 1999)
- ✓ GNU Privacy Guard (GnuPG, since 2001)
- ✓ GNU R (since 2004)
- ✓ KDE Desktop programming (since 1998)
- ✓ Kernel-based Virtualisation (KVM, since 2012)
- ✓ L^AT_EX 2_ε (since 2000)
- ✓ **Linux/Unix system and network programming (since 1994)**
(threads, sockets, multicast, TCP/IP, SCTP, ...)
- ✓ Nessus (since 2001)
- ✓ **OMNeT++ Discrete Event Simulation Toolkit (since 2003)**
- ✓ OpenSSH (since 2001)
- ✓ PlanetLab (since 2005)
- ✓ PostgreSQL, MySQL, Oracle (since 2000)
- ✓ Qt GUI Toolkit programming (since 1996)
- ✓ Subversion (SVN, since 2004)
- ✓ VirtualBox (since 2012)
- ✓ Wireshark (since 2001)

Network Technologies

- ✓ Internet Protocol, Version 6 (IPv6) (since 1999)
- ✓ **Multi-Path TCP (MPTCP, since 2012)**
- ✓ Real-Time Transport Protocol (RTP), IntServ/DiffServ (since 1999)
- ✓ **Reliable Server Pooling (RSerPool, since 2002)**
- ✓ **Stream Control Transmission Protocol (SCTP, since 2001)**
- ✓ **TCP/IP (since 1996)**
- ✓ Transport Layer Security (TLS, since 2001)

Publications

Books

2012

- ✓ T. Dreibholz: “[Evaluation and Optimisation of Multi-Path Transport using the Stream Control Transmission Protocol](#)”, Habilitation Treatise, University of Duisburg-Essen, Faculty of Economics, Institute for Computer Science and Business Information Systems, URN [urn:nbn:de:hbz:464-20120315-103208-1](https://nbn-resolving.org/urn:nbn:de:hbz:464-20120315-103208-1), March 13, 2012.

2007

- ✓ T. Dreibholz: “[Reliable Server Pooling – Evaluation, Optimization and Extension of a Novel IETF Architecture](#)”, Ph.D. Dissertation, University of Duisburg-Essen, Faculty of Economics, Institute for Computer Science and Business Information Systems, URN [urn:nbn:de:hbz:465-20070308-164527-0](https://nbn-resolving.org/urn:nbn:de:hbz:465-20070308-164527-0), March 7, 2007. **Awarded with the Science Award of the Sparkasse Essen.**

Publications (continued)

- 2001 ✓ T. Dreibholz: “[Management of Layered Variable Bitrate Multimedia Streams over DiffServ with Apriori Knowledge](#)”, Masters Thesis, University of Bonn, Institute for Computer Science, URN [urn:nbn:de:hbz:464-20120416-095753-8](#), February 20, 2001.

Refereed Journal Publications

- 2023 ✓ M. Fida, A. H. M. Ahmed, T. Dreibholz, A. F. Ocampo, A. M. Elmokashfi and F. I. Michelinakis: “[Bottleneck Identification in Cloudified Mobile Networks based on Distributed Telemetry](#)”, in *Transactions on Mobile Computing*, pp. 1–18, IEEE, DOI [10.1109/TMC.2023.3312051](#), ISSN 1558-0660, September 5, 2023.
- ✓ T. Dreibholz and S. Mazumdar: “[Towards a Lightweight Task Scheduling Framework for Cloud and Edge Platform](#)”, in *Internet of Things*, vol. 21, Elsevier, DOI [10.1016/j.iot.2022.100651](#), ISSN 2542-6605, April 2023.
- 2022 ✓ S. Mazumdar and T. Dreibholz: “[Secure Embedded Living: Towards a Self-contained User Data Preserving Framework](#)”, in *IEEE Communications Magazine*, vol. 60, pp. 74–80, DOI [10.1109/MCOM.001.2200165](#), ISSN 0163-6804, November 11, 2022.
- ✓ F. I. Michelinakis, J. S. Pujol-Roig, S. Malacarne, M. Xie, T. Dreibholz, S. Mazumdar, W. Y. Poe, G. Patounas, C. Guerrero, A. M. Elmokashfi and V. Theodorou: “[AI Anomaly Detection for Cloudified Mobile Core Architectures](#)”, in *Transactions on Network and Service Management (TNSM)*, IEEE Computer Society, DOI [10.1109/TNSM.2022.3203246](#), ISSN 1932-4537, Los Alamitos, California/U.S.A., August 31, 2022.
- 2021 ✓ M. Chen, M. W. Raza, T. Dreibholz, X. Zhou and Y. Tan: “[A Multi-Parameter Comprehensive Optimized Algorithm for MPTCP Networks](#)”, in *Electronics*, vol. 10, no. 16, pp. 1–19, MDPI, DOI [10.3390/electronics10161942](#), ISSN 2079-9292, Basel/Switzerland, August 12, 2021.
- 2020 ✓ R. Barik, M. Welzl, G. Fairhurst, T. Dreibholz, A. M. Elmokashfi and S. Gjessing: “[On the Usability of Transport Protocols other than TCP: A Home Gateway and Internet Path Traversal Study](#)”, in *Computer Networks*, vol. 173, Elsevier, DOI [10.1016/j.comnet.2020.107211](#), ISSN 1389-1286, May 22, 2020.
- 2019 ✓ R. Barik, M. Welzl, A. M. Elmokashfi, T. Dreibholz, S. Islam and S. Gjessing: “[On the Utility of Unregulated IP DiffServ Code Point \(DSCP\) Usage by End Systems](#)”, in *Performance Evaluation*, vol. 135, Elsevier, DOI [10.1016/j.peva.2019.102036](#), ISSN 0166-5316, August 26, 2019.
- 2016 ✓ K. V. Yedugundla, S. Ferlin, T. Dreibholz, Ö. Alay, N. Kuhn, P. Hurtig and A. Brunström: “[Is Multi-Path Transport Suitable for Latency Sensitive Traffic?](#)”, in *Computer Networks*, vol. 105, pp. 1–21, Elsevier, DOI [10.1016/j.comnet.2016.05.008](#), ISSN 1389-1286, August 4, 2016.
- 2014 ✓ E. G. Gran, T. Dreibholz and A. Kvalbein: “[NorNet Core – A Multi-Homed Research Testbed](#)”, in *Computer Networks, Special Issue on Future Internet Testbeds*, vol. 61, pp. 75–87, DOI [10.1016/j.bjp.2013.12.035](#), ISSN 1389-1286, March 14, 2014.
- 2011 ✓ T. Dreibholz, I. Rüngeler, R. Seggelmann, M. Tüxen, E. P. Rathgeb and R. R. Stewart: “[Stream Control Transmission Protocol: Past, Current, and Future Standardization Activities](#)”, in *IEEE Communications Magazine*, vol. 49, no. 4, pp. 82–88, DOI [10.1109/MCOM.2011.5741151](#), ISSN 0163-6804, April 5, 2011.

Publications (continued)

- 2010** ✓ T. Dreibholz, X. Zhou, M. Becke, J. Pulinthanath, E. P. Rathgeb and W. Du: “[On the Security of Reliable Server Pooling Systems](#)”, in *International Journal on Intelligent Information and Database Systems (IJIIDS)*, vol. 4, no. 6, pp. 552–578, DOI [10.1504/IJIIDS.2010.036894](#), ISSN 1751-5858, December 2010.
- 2009** ✓ T. Dreibholz and E. P. Rathgeb: “[Overview and Evaluation of the Server Redundancy and Session Failover Mechanisms in the Reliable Server Pooling Framework](#)”, in *International Journal on Advances in Internet Technology (IJAIT)*, vol. 2, no. 1, pp. 1–14, ISSN 1942-2652, June 8, 2009.
- ✓ W. Zhu, T. Dreibholz, E. P. Rathgeb and X. Zhou: “[A Scalable QoS Device for Broadband Access to Multimedia Services](#)”, in *SERSC International Journal of Multimedia and Ubiquitous Engineering (IJMUE)*, vol. 4, no. 2, pp. 157–172, ISSN 1975-0080, April 30, 2009.
- 2008** ✓ T. Dreibholz and E. P. Rathgeb: “[An Evaluation of the Pool Maintenance Overhead in Reliable Server Pooling Systems](#)”, in *SERSC International Journal on Hybrid Information Technology (IJHIT)*, vol. 1, no. 2, pp. 17–32, ISSN 1738-9968, April 2008.

Refereed Conference Publications

- 2024** ✓ J. M. Evang and T. Dreibholz: “[Optimizing Network Latency: Unveiling the Impact of Reflection Server Tuning](#)”, in *Proceedings of the 6th International Workshop on Recent Advances for Multi-Clouds and Mobile Edge Computing (M2EC) in conjunction with the 38th International Conference on Advanced Information Networking and Applications (AINA)*, Kitakyushu, Fukuoka/Japan, April 18, 2024.
- 2023** ✓ S. Bjørnstad, J. Ali and T. Dreibholz: “[Detecting Physical Impacts by Monitoring State of Polarisation in a Live Fibre-To-The-Home Data-Communication Air-Cable](#)”, in *Proceedings of the 28th International Conference on Optical Fiber Sensors (OFS)*, Hamamatsu, Shizuoka/Japan, November 21, 2023.
- ✓ F. Fu, G. Lu, J. Huang and T. Dreibholz: “[A Survey of Blockchain-Based Identity Anonymity Research](#)”, in *Proceedings of the 13th International Conference on Computer Engineering and Networks (CENet)*, Springer Nature, DOI [10.1007/978-981-99-9247-8_44](#), ISSN 1876-1100, Wuxi, Jiangsu/People’s Republic of China, November 4, 2023.
- ✓ J. Zhang, X. Zhang, Z. Liu, F. Fu, J. Nie, J. Huang and T. Dreibholz: “[A Survey of Security Vulnerabilities and Detection Methods for Smart Contracts](#)”, in *Proceedings of the 13th International Conference on Computer Engineering and Networks (CENet)*, Springer Nature, DOI [10.1007/978-981-99-9247-8_43](#), ISSN 1876-1100, Wuxi, Jiangsu/People’s Republic of China, November 4, 2023.
- ✓ T. Dreibholz: “[High-Precision Round-Trip Time Measurements in the Internet with HiPerConTracer](#)”, in *Proceedings of the 31st International Conference on Software, Telecommunications and Computer Networks (SoftCOM)*, DOI [10.23919/SoftCOM58365.2023.10271612](#), ISBN 979-8-3503-0107-6, Split, Dalmacija/Croatia, September 22, 2023.
- ✓ S. Mazumdar and T. Dreibholz: “[Towards A Data Privacy-Aware Execution Zone Creation on Cloud/Fog Platform](#)”, in *Proceedings of the 49th Euromicro Conference Series on Software Engineering and Advanced Applications (SEAA)*, pp. 140–149, DOI [10.1109/SEAA60479.2023.00030](#), ISBN 979-8-3503-4235-2, Durrës/Albania, September 8, 2023.

Publications (continued)

- ✓ T. Dreibholz, S. Bjørnstad and J. Ali: “A Scalable Infrastructure for Continuous State of Polarisation Monitoring for Revealing Security and Vulnerability Impacts in Optical Networks”, in *Proceedings of the 17th International Conference on Telecommunications (ConTEL)*, pp. 1–8, DOI [10.1109/ConTEL58387.2023.10198969](https://doi.org/10.1109/ConTEL58387.2023.10198969), ISBN 979-8-3503-0223-3, Graz, Steiermark/Austria, July 11, 2023.
- ✓ S. Mazumdar and T. Dreibholz: “Proactive Resource Orchestration Framework for Cloud/Fog Platform”, in *Proceedings of the 28th IEEE Symposium on Computers and Communications (ISCC)*, pp. 259–265, DOI [10.1109/ISCC58397.2023.10218068](https://doi.org/10.1109/ISCC58397.2023.10218068), ISBN 979-8-3503-0048-2, Gammarth, Tunis/Tunisia, July 10, 2023.
- ✓ S. Bjørnstad, J. Ali, T. Dreibholz and E. Sæthre: “A Scalable Data Collection System for Continuous State of Polarisation Monitoring”, in *Proceedings of the 23rd International Conference on Transparent Optical Networks (ICTON)*, pp. 1–4, DOI [10.1109/ICTON59386.2023.10207183](https://doi.org/10.1109/ICTON59386.2023.10207183), ISBN 979-8-3503-0303-2, Bucharest/Romania, July 3, 2023.
- 2022 ✓ S. Mazumdar and T. Dreibholz: “Towards a Privacy Preserving Data Flow Control via Packet Header Marking”, in *Proceedings of the 24th IEEE International Conference on High Performance Computing, Data, and Analytics (HPCC)*, pp. 1509–1516, DOI [10.1109/HPCC-DSS-SmartCity-DependSys57074.2022.00232](https://doi.org/10.1109/HPCC-DSS-SmartCity-DependSys57074.2022.00232), ISBN 979-8-3503-1993-4, Chengdu, Sichuan/People’s Republic of China, December 18, 2022.
- ✓ S. Mazumdar and T. Dreibholz: “Towards a Blockchain and Fog-Based Proactive Data Distribution Framework for ICN”, in *Proceedings of the International Conference on Parallel and Distributed Computing, Applications and Technologies (PD-CAT)*, pp. 175–186, DOI [10.1007/978-3-031-29927-8_14](https://doi.org/10.1007/978-3-031-29927-8_14), ISBN 978-3-031-29927-8, Sendai, Miyagi/Japan, December 7, 2022.
- ✓ T. Dreibholz and S. Mazumdar: “Find Out: How Do Your Data Packets Travel?”, in *Proceedings of the 18th IEEE International Conference on Network and Service Management (CNSM)*, pp. 359–363, DOI [10.23919/CNSM55787.2022.9965091](https://doi.org/10.23919/CNSM55787.2022.9965091), ISBN 978-3-903176-51-5, Thessaloniki, Greece, November 1, 2022.
- ✓ T. Dreibholz, M. Fida, A. H. M. Ahmed, A. F. Ocampo and F. I. Michelinakis: “A Live Demonstration of In-Band Telemetry in OSM-Orchestrated Core Networks”, in *Proceedings of the 47th IEEE Conference on Local Computer Networks (LCN)*, pp. 245–247, DOI [10.1109/LCN53696.2022.9843413](https://doi.org/10.1109/LCN53696.2022.9843413), ISBN 978-1-6654-8001-7, Edmonton, Alberta/Canada, September 28, 2022.
- ✓ A. Arouna, S. Bjørnstad, S. J. Ryan, T. Dreibholz, S. Rind and A. M. Elmokashfi: “Network Path Integrity Verification using Deterministic Delay Measurements”, in *Proceedings of the 6th IEEE/IFIP Network Traffic Measurement and Analysis Conference (TMA)*, ISBN 978-3-903176-47-8, Enschede, Overijssel/Netherlands, June 29, 2022.
- ✓ T. Dreibholz and S. Mazumdar: “Load Distribution for Mobile Edge Computing with Reliable Server Pooling”, in *Proceedings of the 4th International Workshop on Recent Advances for Multi-Clouds and Mobile Edge Computing (M2EC) in conjunction with the 36th International Conference on Advanced Information Networking and Applications (AINA)*, pp. 590–601, DOI [10.1007/978-3-030-99619-2_55](https://doi.org/10.1007/978-3-030-99619-2_55), ISBN 978-3-030-99619-2, Sydney, New South Wales/Australia, April 15, 2022.

Publications (continued)

2021

- ✓ M. Xie, T. Dreibholz, F. I. Michelinakis, J. Pujol-Roig, W. Y. Poe, A. M. Elmokashfi, S. Majumdar and S. Malacarne: “[An Exposed Closed-Loop Model for Customer-Driven Service Assurance Automation](#)”, in *Proceedings of the 30th IEEE European Conference on Networks and Communications (EuCNC)*, pp. 419–424, DOI [10.1109/EuCNC/6GSummit51104.2021.9482533](#), ISBN 978-1-6654-1526-2, Porto/Portugal, June 9, 2021.
- ✓ T. Dreibholz and S. Mazumdar: “[Reliable Server Pooling Based Workload Offloading with Mobile Edge Computing: A Proof-of-Concept](#)”, in *Proceedings of the 3rd International Workshop on Recent Advances for Multi-Clouds and Mobile Edge Computing (M2EC) in conjunction with the 35th International Conference on Advanced Information Networking and Applications (AINA)*, vol. 3, pp. 582–593, DOI [10.1007/978-3-030-75078-7_58](#), ISBN 978-3-030-75078-7, Toronto, Ontario/Canada, May 14, 2021.

2020

- ✓ M. Chen, T. Dreibholz, X. Zhou and X. Yang: “[Improvement and Implementation of a Multi-Path Management Algorithm Based on MPTCP](#)”, in *Proceedings of the 45th IEEE Conference on Local Computer Networks (LCN)*, pp. 134–143, DOI [10.1109/LCN48667.2020.9314778](#), ISBN 978-1-7281-7158-6, Sydney, New South Wales/Australia, November 16, 2020.
- ✓ T. Dreibholz: “[HiPerConTracer - A Versatile Tool for IP Connectivity Tracing in Multi-Path Setups](#)”, in *Proceedings of the 28th IEEE International Conference on Software, Telecommunications and Computer Networks (SoftCOM)*, pp. 1–6, DOI [10.23919/SoftCOM50211.2020.9238278](#), ISBN 978-953-290-099-6, Hvar, Dalmacija/Croatia, September 17, 2020.
- ✓ I. A. Livadariu, T. Dreibholz, A. S. Al-Selwi, H. Bryhni, O. Lysne, S. Bjørnstad and A. M. Elmokashfi: “[On the Accuracy of Country-Level IP Geolocation](#)”, in *Proceedings of the ACM/IRTF Applied Networking Research Workshop (ARNW)*, pp. 67–73, DOI [10.1145/3404868.3406664](#), ISBN 978-1-4503-8039-3, Madrid/Spain, July 27, 2020.
- ✓ P. Saxena, T. Dreibholz, H. Skinnemoen, Ö. Alay, Á. Vazquez-Castro, S. Ferlin and G. Acar: “[Resilient Hybrid SatCom and Terrestrial Networking for Unmanned Aerial Vehicles](#)”, in *Proceedings of the 39th IEEE International Conference on Computer Communications (INFOCOM), International Workshop on Wireless Sensor, Robot and UAV Networks (WiSARN)*, pp. 418–423, DOI [10.1109/INFOCOMWKSHP50562.2020.9162943](#), ISBN 978-1-7281-8696-2, Toronto, Ontario/Canada, July 6, 2020.
- ✓ M. Xie, J. S. Pujol-Roig, F. I. Michelinakis, T. Dreibholz, C. Guerrero, A. G. Sánchez, W. Y. Poe, Y. Wang and A. M. Elmokashfi: “[AI-Driven Closed-Loop Service Assurance with Service Exposures](#)”, in *Proceedings of the 29th IEEE European Conference on Networks and Communications (EuCNC)*, pp. 265–270, DOI [10.1109/EuCNC48522.2020.9200943](#), ISBN 978-1-7281-4355-2, Dubrovnik, Dubrovnik-Neretva/Croatia, June 17, 2020.
- ✓ T. Dreibholz: “[Flexible 4G/5G Testbed Setup for Mobile Edge Computing using OpenAirInterface and Open Source MANO](#)”, in *Proceedings of the 2nd International Workshop on Recent Advances for Multi-Clouds and Mobile Edge Computing (M2EC) in conjunction with the 34th International Conference on Advanced Information Networking and Applications (AINA)*, pp. 1143–1153, DOI [10.1007/978-3-030-44038-1_105](#), ISBN 978-3-030-44037-4, Caserta, Campania/Italy, April 15, 2020.

Publications (continued)

- 2019**
- ✓ Y. Luo, X. Zhou, T. Dreibholz and H. Kuang: “[A Real-Time Video Streaming System over IPv6+MPTCP Technology](#)”, in *Proceedings of the 1st International Workshop on Recent Advances for Multi-Clouds and Mobile Edge Computing (M2EC) in conjunction with the 33rd International Conference on Advanced Information Networking and Applications (AINA)*, pp. 1007–1019, DOI [10.1007/978-3-030-15035-8_99](#), ISBN 978-3-030-15034-1, Matsue, Shimane/Japan, March 27, 2019.
 - ✓ J. Hong, T. Dreibholz, J. A. Schenkel and J. A. Hu: “[An Overview of Multi-Cloud Computing](#)”, in *Proceedings of the 1st International Workshop on Recent Advances for Multi-Clouds and Mobile Edge Computing (M2EC) in conjunction with the 33rd International Conference on Advanced Information Networking and Applications (AINA)*, pp. 1055–1068, DOI [10.1007/978-3-030-15035-8_103](#), ISBN 978-3-030-15034-1, Matsue, Shimane/Japan, March 27, 2019.
 - ✓ T. Dreibholz, S. Mazumdar, F. Zahid, A. Taherkordi and E. G. Gran: “[Mobile Edge as Part of the Multi-Cloud Ecosystem: A Performance Study](#)”, in *Proceedings of the 27th Euromicro International Conference on Parallel, Distributed and Network-Based Processing (PDP)*, pp. 59–66, DOI [10.1109/EMPDP.2019.8671599](#), ISBN 978-1-7281-1644-0, Pavia, Lombardia/Italy, February 13, 2019.
- 2018**
- ✓ Q. Tan, X. Yang, L. Zhao, X. Zhou and T. Dreibholz: “[A Statistic Procedure to Find Formulae for Buffer Size in MPTCP](#)”, in *Proceedings of the 3rd IEEE Advanced Information Technology, Electronic and Automation Control Conference (IAEAC)*, pp. 900–907, DOI [10.1109/IAEAC.2018.8577570](#), ISBN 978-1-5386-4509-3, Chongqing/People’s Republic of China, October 13, 2018.
 - ✓ R. Barik, M. Welzl, A. M. Elmokashfi, T. Dreibholz and S. Gjessing: “[Can WeBRTC QoS Work? A DSCP Measurement Study](#)”, in *Proceedings of the 30th International Teletraffic Congress (ITC)*, pp. 167–175, DOI [10.1109/ITC30.2018.00034](#), ISBN 978-0-9883045-5-0, Wien/Austria, September 6, 2018.
- 2017**
- ✓ K. Wang, T. Dreibholz, X. Zhou, F. Fu, Y. Tan, X. Cheng and Q. Tan: “[On the Path Management of Multi-Path TCP in Internet Scenarios based on the NorNet Testbed](#)”, in *Proceedings of the IEEE International Conference on Advanced Information Networking and Applications (AINA)*, pp. 1–8, DOI [10.1109/AINA.2017.29](#), ISBN 978-1-5090-6028-3, Taipei, Taiwan/People’s Republic of China, March 27, 2017.
 - ✓ F. Zhou, T. Dreibholz, X. Zhou, F. Fu, Y. Tan and Q. Gan: “[The Performance Impact of Buffer Sizes for Multi-Path TCP in Internet Setups](#)”, in *Proceedings of the IEEE International Conference on Advanced Information Networking and Applications (AINA)*, pp. 9–16, DOI [10.1109/AINA.2017.26](#), ISBN 978-1-5090-6028-3, Taipei, Taiwan/People’s Republic of China, March 27, 2017.
- 2016**
- ✓ S. Ferlin, Ö. Alay, D. A. Hayes, T. Dreibholz and M. Welzl: “[Revisiting Congestion Control for Multipath TCP with Shared Bottleneck Detection](#)”, in *Proceedings of the 35th IEEE International Conference on Computer Communications (INFOCOM)*, pp. 2419–2427, ISBN 978-1-4673-9953-1, San Francisco, California/U.S.A., April 14, 2016.
- 2015**
- ✓ F. Fu, X. Zhou, T. Dreibholz, K. Wang, F. Zhou and Q. Gan: “[Performance Comparison of Congestion Control Strategies for Multi-Path TCP in the NorNet Testbed](#)”, in *Proceedings of the 4th IEEE/CIC International Conference on Communications in China (ICCC)*, pp. 607–612, DOI [10.1109/ICCCChina.2015.7448667](#), ISBN 978-1-5090-0243-6, Shenzhen, Guangdong/People’s Republic of China, November 3, 2015.

Publications (continued)

- ✓ H. Adhari, T. Dreibholz, S. Werner and E. P. Rathgeb: “Eclipse: A New Dynamic Delay-based Congestion Control Algorithm for Background Traffic”, in *Proceedings of the 18th International Conference on Network-Based Information Systems (NBiS)*, pp. 115–123, DOI [10.1109/NBiS.2015.21](https://doi.org/10.1109/NBiS.2015.21), ISBN 978-1-4799-9942-2, Taipei/Taiwan, September 2, 2015. **Awarded with the Best Paper Award.**
- ✓ I. A. Livadariu, S. Ferlin, Ö. Alay, T. Dreibholz, A. Dhamdhere and A. M. El-mokashfi: “Leveraging the IPv4/IPv6 Identity Duality by using Multi-Path Transport”, in *Proceedings of the 18th IEEE Global Internet Symposium (GI) at the 34th IEEE Conference on Computer Communications (INFOCOM)*, pp. 312–317, DOI [10.1109/INFCOMW.2015.7179403](https://doi.org/10.1109/INFCOMW.2015.7179403), ISBN 978-1-4673-7131-5, Hong Kong/People’s Republic of China, April 27, 2015.
- ✓ T. Dreibholz, J. Børgeengen and J. Werme: “Monitoring and Maintaining the Infrastructure of the NorNet Testbed for Multi-Homed Systems”, in *5th International Workshop on Protocols and Applications with Multi-Homing Support (PAMS)*, pp. 611–616, DOI [10.1109/WAINA.2015.76](https://doi.org/10.1109/WAINA.2015.76), ISBN 978-1-4799-1775-4, Gwangju/South Korea, March 25, 2015.
- ✓ T. Dreibholz, X. Zhou and F. Fu: “Multi-Path TCP in Real-World Setups – An Evaluation in the NorNet Core Testbed”, in *5th International Workshop on Protocols and Applications with Multi-Homing Support (PAMS)*, pp. 617–622, DOI [10.1109/WAINA.2015.74](https://doi.org/10.1109/WAINA.2015.74), ISBN 978-1-4799-1775-4, Gwangju/South Korea, March 25, 2015.
- ✓ S. Ferlin, T. Dreibholz and Ö. Alay: “Multi-Path Transport over Heterogeneous Wireless Networks: Does it really pay off?”, in *Proceedings of the IEEE Global Communications Conference (GLOBECOM)*, pp. 4807–4813, DOI [10.1109/GLOCOM.2014.7037567](https://doi.org/10.1109/GLOCOM.2014.7037567), ISBN 978-1-4799-3512-3, Austin, Texas/U.S.A., December 11, 2014.
- ✓ F. Golkar, T. Dreibholz and A. Kvalbein: “Measuring and Comparing Internet Path Stability in IPv4 and IPv6”, in *Proceedings of the 5th IEEE International Conference on the Network of the Future (NoF)*, pp. 1–5, DOI [10.1109/NOF.2014.7119767](https://doi.org/10.1109/NOF.2014.7119767), ISBN 978-1-4799-7531-0, Paris/France, December 4, 2014. **Awarded with the Best Paper Award.**
- ✓ A. Aziz, D. Hoffstadt, E. P. Rathgeb and T. Dreibholz: “A Distributed Infrastructure to Analyse SIP Attacks in the Internet”, in *Proceedings of the IFIP Networking Conference*, pp. 1–9, DOI [10.1109/IFIPNetworking.2014.6857088](https://doi.org/10.1109/IFIPNetworking.2014.6857088), ISBN 978-3-901882-58-6, Trondheim, Sør-Trøndelag/Norway, June 4, 2014.
- ✓ S. Ferlin, T. Dreibholz and Ö. Alay: “Tackling the Challenge of Bufferbloat in Multi-Path Transport over Heterogeneous Wireless Networks”, in *Proceedings of the IEEE/ACM International Symposium on Quality of Service (IWQoS)*, pp. 123–128, DOI [10.1109/IWQoS.2014.6914310](https://doi.org/10.1109/IWQoS.2014.6914310), ISBN 978-1-4799-4852-9, Hong Kong/People’s Republic of China, May 26, 2014.
- ✓ H. Adhari, S. Werner, T. Dreibholz and E. P. Rathgeb: “LEDBAT-MP – On the Application of Lower-than-Best-Effort for Concurrent Multipath Transfer”, in *Proceedings of the 4th International Workshop on Protocols and Applications with Multi-Homing Support (PAMS)*, DOI [10.1109/WAINA.2014.125](https://doi.org/10.1109/WAINA.2014.125), ISBN 978-1-4799-2652-7, Victoria, British Columbia/Canada, May 16, 2014.
- ✓ S. Ferlin, T. Dreibholz, Ö. Alay and A. Kvalbein: “Measuring the QoS Characteristics of Operational 3G Mobile Broadband Networks”, in *Proceedings of the 4th International Workshop on Protocols and Applications with Multi-Homing Support (PAMS)*, pp. 753–758, DOI [10.1109/WAINA.2014.123](https://doi.org/10.1109/WAINA.2014.123), ISBN 978-1-4799-2652-7, Victoria, British Columbia/Canada, May 16, 2014.

2014

Publications (continued)

2013

- ✓ M. Becke, T. Dreibholz, A. Bayer, M. Packeiser and E. P. Rathgeb: “[Alternative Transmission Strategies for Multipath Transport of Multimedia Streams over Wireless Networks](#)”, in *Proceedings of the 12th IEEE International Conference on Telecommunications (ConTEL)*, pp. 147–153, ISBN 978-953-184-175-7, Zagreb, Središnja Hrvatska/Croatia, June 26, 2013.
- ✓ T. Dreibholz: “[The NorNet Project: A Research Platform for Robust and Secure Networks](#)”, in *Proceedings of the Essener Workshop zur Netzsicherheit (EWNS)*, Essen, Nordrhein-Westfalen/Germany, April 8, 2013.
- ✓ T. Dreibholz and E. G. Gran: “[Design and Implementation of the NorNet Core Research Testbed for Multi-Homed Systems](#)”, in *Proceedings of the 3rd International Workshop on Protocols and Applications with Multi-Homing Support (PAMS)*, pp. 1094–1100, DOI [10.1109/WAINA.2013.71](#), ISBN 978-0-7695-4952-1, Barcelona, Catalonia/Spain, March 27, 2013.

2012

- ✓ M. Becke, T. Dreibholz, H. Adhari and E. P. Rathgeb: “[On the Fairness of Transport Protocols in a Multi-Path Environment](#)”, in *Proceedings of the IEEE International Conference on Communications (ICC)*, pp. 2666–2672, DOI [10.1109/ICC.2012.6363695](#), ISBN 978-1-4577-2052-9, Ottawa, Ontario/Canada, June 12, 2012.
- ✓ M. Becke, T. Dreibholz, H. Adhari and E. P. Rathgeb: “[A Future Internet Architecture supporting Multipath Communication Networks](#)”, in *Proceedings of the 13th IEEE/IFIP Network Operations and Management Symposium (NOMS)*, pp. 639–642, DOI [10.1109/NOMS.2012.6211975](#), ISBN 978-1-4673-0268-5, Maui, Hawaii/U.S.A., April 19, 2012.
- ✓ T. Dreibholz, H. Adhari, M. Becke and E. P. Rathgeb: “[Simulation and Experimental Evaluation of Multipath Congestion Control Strategies](#)”, in *Proceedings of the 2nd International Workshop on Protocols and Applications with Multi-Homing Support (PAMS)*, DOI [10.1109/WAINA.2012.186](#), ISBN 978-0-7695-4652-0, Fukuoka/Japan, March 29, 2012.

2011

- ✓ T. Dreibholz, M. Becke, H. Adhari and E. P. Rathgeb: “[Evaluation of A New Multipath Congestion Control Scheme using the NetPerfMeter Tool-Chain](#)”, in *Proceedings of the 19th IEEE International Conference on Software, Telecommunications and Computer Networks (SoftCOM)*, pp. 1–6, ISBN 978-953-290-027-9, Hvar, Dalmacija/Croatia, September 16, 2011.
- ✓ T. Dreibholz, M. Becke, H. Adhari and E. P. Rathgeb: “[On the Impact of Congestion Control for Concurrent Multipath Transfer on the Transport Layer](#)”, in *Proceedings of the 11th IEEE International Conference on Telecommunications (ConTEL)*, pp. 397–404, ISBN 978-953-184-152-8, Graz, Steiermark/Austria, June 16, 2011.
- ✓ T. Dreibholz: “[Server-Redundanz und Lastverteilung einfach in eigene Anwendungen integrieren – mit Reliable Server Pooling und RSPLIB](#)”, in *Proceedings of the LinuxTag*, Berlin/Germany, May 12, 2011.
- ✓ H. Adhari, T. Dreibholz, M. Becke, E. P. Rathgeb and M. Tüxen: “[Evaluation of Concurrent Multipath Transfer over Dissimilar Paths](#)”, in *Proceedings of the 1st International Workshop on Protocols and Applications with Multi-Homing Support (PAMS)*, pp. 708–714, DOI [10.1109/WAINA.2011.92](#), ISBN 978-0-7695-4338-3, Singapore, March 22, 2011.

Publications (continued)

- ✓ M. Becke, T. Dreibholz, E. P. Rathgeb and J. Formann: “[Link Emulation on the Data Link Layer in a Linux-based Future Internet Testbed Environment](#)”, in *Proceedings of the 10th International Conference on Networks (ICN)*, pp. 92–98, ISBN 978-1-61208-002-4, St. Maarten/Netherlands Antilles, January 25, 2011.

2010

- ✓ T. Dreibholz, M. Becke, E. P. Rathgeb and M. Tüxen: “[On the Use of Concurrent Multipath Transfer over Asymmetric Paths](#)”, in *Proceedings of the IEEE Global Communications Conference (GLOBECOM)*, DOI [10.1109/GLOCOM.2010.5683579](#), ISBN 978-1-4244-5637-6, Miami, Florida/U.S.A., December 7, 2010.
- ✓ T. Dreibholz, R. Seggelmann, M. Tüxen and E. P. Rathgeb: “[Transmission Scheduling Optimizations for Concurrent Multipath Transfer](#)”, in *Proceedings of the 8th International Workshop on Protocols for Future, Large-Scale and Diverse Network Transports (PFLDNeT)*, vol. 8, ISSN 2074-5168, Lancaster, Pennsylvania/U.S.A., November 29, 2010.
- ✓ T. Dreibholz, M. Becke, C. Henke and E. P. Rathgeb: “[An Approach for Transferring an End-to-End Transport Service into a Functional Building Block Structure](#)”, in *Proceedings of the 5th GI/ITG KuVS Workshop on the Future Internet*, Stuttgart, Baden-Württemberg/Germany, June 9, 2010.
- ✓ X. Zhou, T. Dreibholz, M. Becke, J. Pulinthanath, E. P. Rathgeb and W. Du: “[The Software Modeling and Implementation of Reliable Server Pooling and RSPLIB](#)”, in *Proceedings of the 8th ACIS Conference on Software Engineering Research, Management and Applications (SERA)*, pp. 129–136, DOI [10.1109/SERA.2010.26](#), ISBN 978-0-7695-4075-7, Montréal, Québec/Canada, May 24, 2010.
- ✓ T. Dreibholz, M. Becke, J. Pulinthanath and E. P. Rathgeb: “[Applying TCP-Friendly Congestion Control to Concurrent Multipath Transfer](#)”, in *Proceedings of the 24th IEEE International Conference on Advanced Information Networking and Applications (AINA)*, pp. 312–319, DOI [10.1109/AINA.2010.117](#), ISBN 978-0-7695-4018-4, Perth, Western Australia/Australia, April 21, 2010.
- ✓ T. Dreibholz, M. Becke, J. Pulinthanath and E. P. Rathgeb: “[Implementation and Evaluation of Concurrent Multipath Transfer for SCTP in the INET Framework](#)”, in *Proceedings of the 3rd ACM/ICST International Workshop on OMNeT++*, DOI [10.4108/ICST.SIMUTOOLS2010.8673](#), ISBN 978-963-9799-87-5, Torremolinos, Málaga/Spain, March 19, 2010.

2009

- ✓ T. Dreibholz, X. Zhou, E. P. Rathgeb and W. Du: “[A PlanetLab-Based Performance Analysis of RSerPool Security Mechanisms](#)”, in *Proceedings of the 10th IEEE International Conference on Telecommunications (ConTEL)*, pp. 213–220, ISBN 978-953-184-131-3, Zagreb, Središnja Hrvatska/Croatia, June 8, 2009.
- ✓ X. Zhou, T. Dreibholz, E. P. Rathgeb and W. Du: “[Takeover Suggestion – A Registrar Redundancy Handling Optimization for Reliable Server Pooling Systems](#)”, in *Proceedings of the 10th IEEE/ACIS International Conference on Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing (SNPD)*, pp. 168–173, DOI [10.1109/SNPD.2009.17](#), ISBN 978-3-642-01202-0, Daegu/South Korea, May 27, 2009.
- ✓ X. Zhou, T. Dreibholz, F. Fu, W. Du and E. P. Rathgeb: “[Evaluation and Optimization of the Registrar Redundancy Handling in Reliable Server Pooling Systems](#)”, in *Proceedings of the IEEE 23rd International Conference on Advanced Information Networking and Applications (AINA)*, pp. 256–262, DOI [10.1109/AINA.2009.25](#), ISBN 978-0-7695-3638-5, Bradford, West Yorkshire/United Kingdom, May 26, 2009.

Publications (continued)

2008

- ✓ T. Dreibholz, X. Zhou and E. P. Rathgeb: “[SimProcTC – The Design and Realization of a Powerful Tool-Chain for OMNeT++ Simulations](#)”, in *Proceedings of the 2nd ACM/ICST International Workshop on OMNeT++*, pp. 1–8, DOI [10.4108/ICST.SIMUTOOLS2009.5517](#), ISBN 978-963-9799-45-5, Rome/Italy, March 6, 2009.
- ✓ X. Zhou, T. Dreibholz, W. Du and E. P. Rathgeb: “[Evaluation of Attack Countermeasures to Improve the DoS Robustness of RSerPool Systems by Simulations and Measurements](#)”, in *Proceedings of the 16. ITG/GI Fachtagung Kommunikation in Verteilten Systemen (KiVS)*, Informatik aktuell, pp. 217–228, Springer, DOI [10.1007/978-3-540-92666-5_18](#), ISBN 978-3-540-92665-8, Kassel, Hessen/Germany, March 5, 2009.
- ✓ W. Zhu, T. Dreibholz, E. P. Rathgeb and X. Zhou: “[A Scalable QoS Device for Broadband Access to Multimedia Services](#)”, in *Proceedings of the IEEE International Conference on Future Generation Communication and Networking (FGCN)*, vol. 1, pp. 343–348, DOI [10.1109/FGCN.2008.124](#), ISBN 978-0-7695-3431-2, Sanya, Hainan/People’s Republic of China, December 13, 2008.
- ✓ T. Dreibholz and E. P. Rathgeb: “[Towards the Future Internet – An Overview of Challenges and Solutions in Research and Standardization](#)”, in *Proceedings of the 2nd GI/ITG KuVS Workshop on the Future Internet*, Karlsruhe, Baden-Württemberg/Germany, November 11, 2008.
- ✓ P. Schöttle, T. Dreibholz and E. P. Rathgeb: “[On the Application of Anomaly Detection in Reliable Server Pooling Systems for Improved Robustness against Denial of Service Attacks](#)”, in *Proceedings of the 33rd IEEE Conference on Local Computer Networks (LCN)*, pp. 207–214, DOI [10.1109/LCN.2008.4664171](#), ISBN 978-1-4244-2413-9, Montréal, Québec/Canada, October 16, 2008.
- ✓ W. Zhu, T. Dreibholz and E. P. Rathgeb: “[Analysis and Evaluation of a Scalable QoS Device for Broadband Access to Multimedia Services](#)”, in *Proceedings of the 33rd IEEE Conference on Local Computer Networks (LCN)*, pp. 504–505, DOI [10.1109/LCN.2008.4664212](#), ISBN 978-1-4244-2413-9, Montréal, Québec/Canada, October 15, 2008.
- ✓ T. Dreibholz, E. P. Rathgeb and X. Zhou: “[On Robustness and Countermeasures of Reliable Server Pooling Systems against Denial of Service Attacks](#)”, in *Proceedings of the 7th International IFIP Networking Conference*, Lecture Notes in Computer Science, vol. 4982, pp. 586–598, Springer, DOI [10.1007/978-3-540-79549-0_51](#), ISBN 978-3-540-79548-3, Singapore, May 7, 2008.
- ✓ T. Dreibholz and E. P. Rathgeb: “[A Powerful Tool-Chain for Setup, Distributed Processing, Analysis and Debugging of OMNeT++ Simulations](#)”, in *Proceedings of the 1st ACM/ICST International Workshop on OMNeT++*, DOI [10.4108/ICST.SIMUTOOLS2008.2990](#), ISBN 978-963-9799-20-2, Marseille, Bouches-du-Rhône/France, March 7, 2008.
- ✓ X. Zhou, T. Dreibholz and E. P. Rathgeb: “[A New Server Selection Strategy for Reliable Server Pooling in Widely Distributed Environments](#)”, in *Proceedings of the 2nd IEEE International Conference on Digital Society (ICDS)*, pp. 171–177, DOI [10.1109/ICDS.2008.12](#), ISBN 978-0-7695-3087-1, Sainte Luce/Martinique, February 14, 2008.
- ✓ T. Dreibholz and E. P. Rathgeb: “[Reliable Server Pooling – A Novel IETF Architecture for Availability-Sensitive Services](#)”, in *Proceedings of the 2nd IEEE International Conference on Digital Society (ICDS)*, pp. 150–156, DOI [10.1109/ICDS.2008.11](#), ISBN 978-0-7695-3087-1, Sainte Luce/Martinique, February 14, 2008. **Awarded with the Best Paper Award.**

Publications (continued)

2007

- ✓ X. Zhou, T. Dreibholz and E. P. Rathgeb: “[A New Approach of Performance Improvement for Server Selection in Reliable Server Pooling Systems](#)”, in *Proceedings of the 15th IEEE International Conference on Advanced Computing and Communication (ADCOM)*, pp. 117–121, DOI [10.1109/ADCOM.2007.19](#), ISBN 0-7695-3059-1, Guwahati/India, December 19, 2007.
- ✓ X. Zhou, T. Dreibholz and E. P. Rathgeb: “[Evaluation of a Simple Load Balancing Improvement for Reliable Server Pooling with Heterogeneous Server Pools](#)”, in *Proceedings of the IEEE International Conference on Future Generation Communication and Networking (FGCN)*, vol. 1, pp. 173–180, DOI [10.1109/FGCN.2007.119](#), ISBN 0-7695-3048-6, Jeju Island/South Korea, December 8, 2007.
- ✓ T. Dreibholz and E. P. Rathgeb: “[An Evaluation of the Pool Maintenance Overhead in Reliable Server Pooling Systems](#)”, in *Proceedings of the IEEE International Conference on Future Generation Communication and Networking (FGCN)*, vol. 1, pp. 136–143, DOI [10.1109/FGCN.2007.62](#), ISBN 0-7695-3048-6, Jeju Island/South Korea, December 6, 2007.
- ✓ X. Zhou, T. Dreibholz and E. P. Rathgeb: “[Improving the Load Balancing Performance of Reliable Server Pooling in Heterogeneous Capacity Environments](#)”, in *Proceedings of the 3rd Asian Internet Engineering Conference (AINTEC)*, Lecture Notes in Computer Science, vol. 4866, pp. 125–140, Springer, DOI [10.1007/978-3-540-76809-8_12](#), ISBN 978-3-540-76808-1, November 28, 2007.
- ✓ T. Dreibholz, X. Zhou and E. P. Rathgeb: “[A Performance Evaluation of RServer Pool Server Selection Policies in Varying Heterogeneous Capacity Scenarios](#)”, in *Proceedings of the 33rd IEEE EuroMirco Conference on Software Engineering and Advanced Applications*, pp. 157–164, DOI [10.1109/EUROMICRO.2007.9](#), ISBN 0-7695-2977-1, Lübeck, Schleswig-Holstein/Germany, August 29, 2007.
- ✓ T. Dreibholz and E. P. Rathgeb: “[On Improving the Performance of Reliable Server Pooling Systems for Distance-Sensitive Distributed Applications](#)”, in *Proceedings of the 15. ITG/GI Fachtagung Kommunikation in Verteilten Systemen (KiVS)*, Informatik aktuell, pp. 39–50, Springer, DOI [10.1007/978-3-540-69962-0_4](#), ISBN 978-3-540-69962-0, Bern/Switzerland, February 28, 2007.

2005

- ✓ T. Dreibholz and E. P. Rathgeb: “[The Performance of Reliable Server Pooling Systems in Different Server Capacity Scenarios](#)”, in *Proceedings of the IEEE TENCON*, DOI [10.1109/TENCON.2005.300939](#), ISBN 0-7803-9312-0, Melbourne, Victoria/Australia, November 22, 2005.
- ✓ T. Dreibholz, A. J. IJsselmuiden and J. L. Adams: “[An Advanced QoS Protocol for Mass Content](#)”, in *Proceedings of the IEEE Conference on Local Computer Networks (LCN) 30th Anniversary*, pp. 517–518, DOI [10.1109/LCN.2005.25](#), ISBN 0-7695-2421-4, Sydney, New South Wales/Australia, November 17, 2005.
- ✓ T. Dreibholz and E. P. Rathgeb: “[On the Performance of Reliable Server Pooling Systems](#)”, in *Proceedings of the IEEE Conference on Local Computer Networks (LCN) 30th Anniversary*, pp. 200–208, DOI [10.1109/LCN.2005.98](#), ISBN 0-7695-2421-4, Sydney, New South Wales/Australia, November 16, 2005.
- ✓ T. Dreibholz and E. P. Rathgeb: “[RServerPool – Providing Highly Available Services using Unreliable Servers](#)”, in *Proceedings of the 31st IEEE EuroMirco Conference on Software Engineering and Advanced Applications*, pp. 396–403, DOI [10.1109/EUROMICRO.2005.50](#), ISBN 0-7695-2431-1, Porto/Portugal, September 2, 2005.

Publications (continued)

- ✓ T. Dreibholz: “[Das rsplib-Projekt – Hochverfügbarkeit mit Reliable Server Pooling](#)”, in *Proceedings of the LinuxTag*, Karlsruhe, Baden-Württemberg/Germany, June 24, 2005.
 - ✓ T. Dreibholz and E. P. Rathgeb: “[Implementing the Reliable Server Pooling Framework](#)”, in *Proceedings of the 8th IEEE International Conference on Telecommunications (ConTEL)*, vol. 1, pp. 21–28, ISBN 953-184-081-4, Zagreb, Središnja Hrvatska/Croatia, June 15, 2005.
 - ✓ T. Dreibholz, E. P. Rathgeb and M. Tüxen: “[Load Distribution Performance of the Reliable Server Pooling Framework](#)”, in *Proceedings of the 4th IEEE International Conference on Networking (ICN)*, Lecture Notes in Computer Science, vol. 3421, pp. 564–574, Springer, DOI [10.1007/978-3-540-31957-3_65](#), ISBN 3-540-25338-6, Saint Gilles Les Bains/Reunion Island, April 21, 2005.
- 2004**
- ✓ T. Dreibholz, A. J. IJsselmuiden and J. L. Adams: “[Simulation of an Advanced QoS Protocol for Mass Content](#)”, in *Proceedings of the 2nd International Conference on Performance Modelling and Evaluation of Heterogeneous Networks (HET-NETs)*, Ikley, West Yorkshire/United Kingdom, July 26, 2004.
- 2003**
- ✓ T. Dreibholz, A. Jungmaier and M. Tüxen: “[A New Scheme for IP-based Internet Mobility](#)”, in *Proceedings of the 28th IEEE Local Computer Networks Conference (LCN)*, pp. 99–108, DOI [10.1109/LCN.2003.1243117](#), ISBN 0-7695-2037-5, Königswinter, Nordrhein-Westfalen/Germany, October 22, 2003.
 - ✓ T. Dreibholz, A. J. Smith and J. L. Adams: “[Realizing a Scalable Edge Device to Meet QoS Requirements for Real-Time Content Delivered to IP Broadband Customers](#)”, in *Proceedings of the 10th IEEE International Conference on Telecommunications (ICT)*, vol. 2, pp. 1133–1139, DOI [10.1109/ICTEL.2003.1191595](#), ISBN 0-7803-7661-7, Papeete/French Polynesia, February 26, 2003.
 - ✓ T. Dreibholz and M. Tüxen: “[High Availability using Reliable Server Pooling](#)”, in *Proceedings of the Linux Conference Australia (LCA)*, Perth, Western Australia/Australia, January 24, 2003.
- 2002**
- ✓ T. Dreibholz: “[An Efficient Approach for State Sharing in Server Pools](#)”, in *Proceedings of the 27th IEEE Local Computer Networks Conference (LCN)*, pp. 348–349, DOI [10.1109/LCN.2002.1181806](#), ISBN 0-7695-1591-6, Tampa, Florida/U.S.A., November 8, 2002.
- ### Refereed Poster and Demonstration Presentations
- 2023**
- ✓ T. Dreibholz: “[A Live Demonstration of HiPerConTracer 2.0](#)”, in *Proceedings of the 31st International Conference on Software, Telecommunications and Computer Networks (SoftCOM)*, Split, Dalmacija/Croatia, September 22, 2023.
- 2021**
- ✓ T. Dreibholz and S. Mazumdar: “[A Demo of Workload Offloading in Mobile Edge Computing Using the Reliable Server Pooling Framework](#)”, in *Proceedings of the 46th IEEE Conference on Local Computer Networks (LCN)*, Edmonton, Alberta/Canada, October 7, 2021.
- 2020**
- ✓ T. Dreibholz, P. Saxena and H. Skinnemoen: “[Efficient Network Coding for Satellite Applications: A Live Demo of HENCSAT and NECTOR](#)”, in *Proceedings of the 45th IEEE Conference on Local Computer Networks (LCN)*, Sydney, New South Wales/Australia, November 18, 2020.

Publications (continued)

- ✓ A. F. Ocampo, T. Dreibholz, M. Fida, A. M. Elmokashfi and H. Bryhni: “[Integrating Cloud-RAN with Packet Core as VNF Using Open Source MANO and OpenAirInterface](#)”, in *Proceedings of the 45th IEEE Conference on Local Computer Networks (LCN)*, Sydney, New South Wales/Australia, November 18, 2020.
- ✓ T. Dreibholz: “[A 4G/5G Packet Core as VNF with Open Source MANO and OpenAirInterface](#)”, in *Proceedings of the 28th IEEE International Conference on Software, Telecommunications and Computer Networks (SoftCOM)*, pp. 1–3, DOI [10.23919/SoftCOM50211.2020.9238222](#), ISBN 978-953-290-099-6, Hvar, Dalmacija/Croatia, September 19, 2020.
- 2017 ✓ F. Weinrank, K. Grinnemo, Z. Bozakov, A. Brunström, T. Dreibholz, P. Hurtig, N. Khademi and M. Tüxen: “[A NEAT Way to Browse the Web](#)”, Demo Presentation, in *Proceedings of the ACM, IRTF and ISOC Applied Networking Research Workshop (ANRW)*, pp. 33–34, DOI [10.1145/3106328.3106335](#), ISBN 978-1-4503-5108-9, Praha/Czech Republic, July 15, 2017.
- 2014 ✓ T. Dreibholz, H. V. Simonsen and E. G. Gran: “[A Demonstration of the NorNet Core Research Testbed for Multi-Homed Systems](#)”, Demo Presentation at the IEEE Global Communications Conference (GLOBECOM), Austin, Texas/U.S.A., December 9, 2014.
- 2011 ✓ M. Becke and T. Dreibholz: “[Multi-Path Transport](#)”, in *Proceedings of the 1st DFG/NSF Doctoral Consortium*, Poster Presentation, San Juan/Puerto Rico, March 13, 2011.
- 2010 ✓ T. Dreibholz and M. Becke: “[The RSPLIB Project – From Research to Application](#)”, Demo Presentation at the IEEE Global Communications Conference (GLOBECOM), Miami, Florida/U.S.A., December 8, 2010.
- ✓ T. Reschka, T. Dreibholz, M. Becke, J. Pulinthanath and E. P. Rathgeb: “[Enhancement of the TCP Module in the OMNeT++/INET Framework](#)”, in *Proceedings of the 3rd ACM/ICST International Workshop on OMNeT++*, ISBN 978-963-9799-87-5, Torremolinos, Málaga/Spain, March 19, 2010.
- 2007 ✓ T. Dreibholz and E. P. Rathgeb: “[Towards the Future Internet – A Survey of Challenges and Solutions in Research and Standardization](#)”, in *Proceedings of the 7th Joint EuroFGI and ITG Workshop on Visions of Future Network Generations (EuroView)*, Poster Presentation, Würzburg, Bayern/Germany, July 23, 2007.
- 2005 ✓ T. Dreibholz and E. P. Rathgeb: “[An Application Demonstration of the Reliable Server Pooling Framework](#)”, in *Proceedings of the 24th IEEE International Conference on Computer Communications (INFOCOM)*, Demonstration and Poster Presentation, Miami, Florida/U.S.A., March 16, 2005.
- 2004 ✓ T. Dreibholz: “[An Overview of the Reliable Server Pooling Architecture](#)”, in *Proceedings of the 12th IEEE International Conference on Network Protocols (ICNP)*, Poster Presentation, Berlin/Germany, October 7, 2004.

Other Publications

- 2023 ✓ T. Čičić, A. Kvalbein, A. S. Al-Selwi, F. I. Michelinakis and T. Dreibholz: “[Norske mobilnett i 2022 – Tilstandsrapport fra Centre for Resilient Networks and Applications](#)”, Simula Metropolitan Center for Digital Engineering, Centre for Resilient Networks and Applications (CRNA), ISBN 978-82-92593-38-7, Oslo/Norway, April 27, 2023.

Publications (continued)

- 2022** ✓ A. M. Elmokashfi, A. Kvalbein, A. S. Al-Selwi, F. I. Michelinakis and T. Dreibholz: “[Norske mobilnett i 2021 – Tilstandsrapport fra Centre for Resilient Networks and Applications](#)”, Simula Metropolitan Center for Digital Engineering, Centre for Resilient Networks and Applications (CRNA), ISBN 82-92593-36-5, Oslo/Norway, April 6, 2022.
- 2021** ✓ M. A. Abdulkadir, Ö. Alay, A. Alexiou, M. Anastasopoulos, K. Antevski, E. Aumayr, D. Ayed, J. Baranda, R. Behraves, C. Benzaid, P. Bisson, A. C. Bosneag, A. A. Boulogeorgos, J. A. Calero, G. Carrozzo, C. E. Casetti, G. Caso, A. H. Celdrán, H. Chergui, C. F. Chiasserini, L. Chinchilla-Romero, G. Chollon, T. Cogalan, C. Colman-Meixner, A. Conti, J. Cosmas, J. Costa-Requena, R. Desai, F. Devoti, M. Diamanti, T. Dreibholz, A. M. Elmokashfi, S. Feghhi, A. Garcia-Saavedra, A. Gavras, M. Ghoraiishi, A. Giannopoulos, M. Goodarzi, M. Gramaglia, C. Guimarães, G. Gürkan, J. He, H. Hrasnica, E. Jimeno, G. Kakkavas, A. Kaloxylas, V. Karyotis, S. Katta, N. Katzouris, T. E. Kennouche, R. Klinkenberg, J. Kokkonen, K. Kondepudi, F. Lazarakis, A. Lekidis, X. Li, D. Lopez, L. Magoula, K. Mahmood, S. Majumdar, M. Malinverno, J. Mangues-Bafalluy, R. Martínez, J. Martín-Pérez, J. Martrat, B. Meunier, R. Mohamed, F. Morselli, J. J. R. Muñoz, P. Muñoz-Luengo, D. C. Muri, C. Murphy, E. M. D. Oca, C. Papagianni, S. Papavassiliou, A. A. P. Perales, G. M. Pérez, M. G. Pérez, W. Y. Poe, J. Prados-Garzon, M. D. Renzo, J. P. Roig, P. M. Sánchez, K. D. Schepper, L. Shi, A. Skarmeta, S. Spantideas, G. K. Srinivasan, A. Stamou, T. Subramanya, P. Trakadas, A. Tzanakaki, L. Valcarengi, J. M. J. Valero, S. Videv, Q. Wang, Y. Wang, M. Xie, Z. Xu, S. Yan, E. Yaqub, A. Yesilkaya, L. Zanzi, S. Zemouri, E. Zeydan, X. Zhang and X. Zhou: “[AI and ML — Enablers for Beyond 5G Networks](#)”, 5G PPP Technology Board, DOI [10.5281/zenodo.429989](https://doi.org/10.5281/zenodo.429989), May 11, 2021.
- ✓ A. M. Elmokashfi, A. Arouna, I. A. Livadariu, M. Fida, A. Kvalbein, A. S. Al-Selwi, T. Dreibholz and H. Bryhni: “[A Multi-Perspective Study of Internet Performance during the COVID-19 Outbreak](#)”, in *E-Print Archive*, Arxiv, January 13, 2021.
- 2020** ✓ A. M. Elmokashfi, A. Kvalbein, M. Christiansson, A. S. Al-Selwi, T. Dreibholz and Ç. Midoğlu: “[Norske mobilnett i 2019 – Tilstandsrapport fra Centre for Resilient Networks and Applications](#)”, Simula Metropolitan Center for Digital Engineering, Centre for Resilient Networks and Applications (CRNA), ISBN 978-82-92593-28-8, Oslo/Norway, June 30, 2020.
- 2019** ✓ A. M. Elmokashfi, A. Kvalbein, T. Dreibholz and C. Jarvis: “[Norske mobilnett i 2018 – Tilstandsrapport fra Centre for Resilient Networks and Applications](#)”, Simula Metropolitan Center for Digital Engineering, Centre for Resilient Networks and Applications (CRNA), ISBN 978-82-92593-25-7, Oslo/Norway, May 29, 2019.
- 2015** ✓ T. Dreibholz: “[NetPerfMeter: A Network Performance Metering Tool](#)”, in *Multi-path TCP Blog*, September 7, 2015.
- 2012** ✓ T. Dreibholz, H. Adhari, M. Becke and E. P. Rathgeb: “[NetPerfMeter – A Versatile Tool for Multi-Protocol Network Performance Evaluations](#)”, University of Duisburg-Essen, Institute for Experimental Mathematics, February 8, 2012.
- ✓ T. Dreibholz, M. Becke, H. Adhari, E. P. Rathgeb, I. Rüngeler, R. Seggelmann and M. Tüxen: “[Improvements to the SCTP Environment in the INET Framework](#)”, University of Duisburg-Essen, Institute for Experimental Mathematics, February 6, 2012.
- ✓ T. Dreibholz, M. Becke, H. Adhari and E. P. Rathgeb: “[RspSim – A Simulation Model of the Reliable Server Pooling Framework](#)”, University of Duisburg-Essen, Institute for Experimental Mathematics, February 6, 2012.

Publications (continued)

2010 ✓ D. Biella, D. Huth, M. Striewe, M. Kohnen, T. Dreibholz and M. Becke: “[Erfahrungsbericht: Zur Organisation und Implementierung PC-gestützter Prüfungen an der Universität Duisburg-Essen](#)”, in *E-Teaching.org*, March 25, 2010.

2000 ✓ T. Dreibholz, J. Selzer and S. Vey: “[Echtzeit-Audioübertragung mit QoS-Management in einem DiffServ-Szenario](#)”, Universität Bonn, Institut für Informatik, August 14, 2000.

Talks

2022 ✓ T. Dreibholz, A. H. M. Ahmed, M. Fida, A. F. Ocampo and F. I. Michelinakis: “[Detecting Issues with In-Band Telemetry in OSM-Orchestrated Core Networks](#)”, Presentation at the OSM13 Ecosystem Day, Virtual, June 15, 2022.

✓ T. Dreibholz: “[NorNet – A Linux- and Open-Source-Software-based International Platform for Networking Research](#)”, in *Proceedings of the Linux Conference Australia (LCA)*, Virtual, January 15, 2022.

2021 ✓ T. Dreibholz, A. F. Ocampo and M. Fida: “[Demonstration of P4-Based In-Band Telemetry for OSM-Orchestrated 4G/5G Testbeds](#)”, Presentation at the OSM12 Ecosystem Day, Virtual, December 1, 2021.

✓ T. Dreibholz: “[NorNet at Hainan University in 2021: Getting Started with NorNet Core – A Remote Tutorial](#)”, Tutorial at Hainan University, College of Information Science and Technology (CIST), Haikou, Hainan/People’s Republic of China, January 15, 2021.

✓ T. Dreibholz: “[NorNet at Hainan University in 2021: From Simulations to Real-World Internet Measurements for Multi-Path Transport Research – A Remote Presentation](#)”, Keynote Talk at Hainan University, College of Information Science and Technology (CIST), Haikou, Hainan/People’s Republic of China, January 8, 2021.

2020 ✓ T. Dreibholz: “[Custom-Made Enhanced Packet Cores as Network Services for 4G/5G Testbeds managed with Open Source MANO](#)”, Presentation at the Mosaic5G Workshop, December 3, 2020.

✓ T. Dreibholz and A. F. Ocampo: “[Managing Tailor-Made Enhanced Packet Cores for 4G/5G Testbeds in OSM with the SimulaMet OpenAirInterface VNF](#)”, Presentation at the OSM Hackfest, December 2, 2020.

✓ T. Dreibholz: “[Easily Setting up 4G/5G Testbeds with OpenAirInterface using OSM](#)”, Presentation at the OSM Hackfest, Madrid/Spain, March 11, 2020.

2019 ✓ T. Dreibholz: “[MELODIC at Hainan University: Combining NorNet Core with MELODIC](#)”, Invited Talk at Hainan University, College of Information Science and Technology (CIST), Haikou, Hainan/People’s Republic of China, April 18, 2019.

✓ T. Dreibholz: “[MELODIC at Hainan University: An Introduction to the MELODIC Project](#)”, Keynote Talk at Hainan University, College of Information Science and Technology (CIST), Haikou, Hainan/People’s Republic of China, April 17, 2019.

✓ T. Dreibholz: “[NorNet at Hainan University: Getting Started with NorNet Core](#)”, Tutorial at Hainan University, College of Information Science and Technology (CIST), Haikou, Hainan/People’s Republic of China, April 16, 2019.

Publications (continued)

2017

- ✓ T. Dreibholz: “[NorNet at Hainan University: From Simulations to Real-World Internet Measurements for Multi-Path Transport Research](#)”, Keynote Talk at Hainan University, College of Information Science and Technology (CIST), Haikou, Hainan/People’s Republic of China, April 15, 2019.
- ✓ R. Barik, M. Welzl, G. Fairhurst, T. Dreibholz, A. M. Elmokashfi and S. Gjessing: “[Native SCTP, DCCP, UDP-Lite and Home Gateway NATs](#)”, in *Proceedings of the 104th IETF Meeting*, Praha/Czech Republic, March 28, 2019.
- ✓ T. Dreibholz: “[NorNet at the University of Sydney: From Simulations to Real-World Internet Measurements for Multi-Path Transport Research](#)”, Invited Talk at University of Sydney, Sydney, New South Wales/Australia, January 10, 2019.
- ✓ T. Dreibholz: “[Big Data Applications on Multi-Clouds: An Introduction to the MELODIC Project](#)”, Keynote Talk at Hainan University, College of Information Science and Technology (CIST), Haikou, Hainan/People’s Republic of China, December 29, 2017.
- ✓ T. Dreibholz: “[Combining NorNet Core with MELODIC](#)”, Invited Talk at Hainan University, College of Information Science and Technology (CIST), Haikou, Hainan/People’s Republic of China, December 29, 2017.
- ✓ T. Dreibholz: “[NEAT Tutorial at Hainan University: Getting Started with NEAT](#)”, Invited Talk at Hainan University, College of Information Science and Technology (CIST), Haikou, Hainan/People’s Republic of China, December 18, 2017.
- ✓ T. Dreibholz: “[NorNet Core Beginner Tutorial at Hainan University](#)”, Tutorial at Hainan University, College of Information Science and Technology (CIST), Haikou, Hainan/People’s Republic of China, December 15, 2017.
- ✓ T. Dreibholz: “[An Introduction to Multi-Path Transport at Hainan University](#)”, Keynote Talk at Hainan University, College of Information Science and Technology (CIST), Haikou, Hainan/People’s Republic of China, December 14, 2017.
- ✓ T. Dreibholz: “[Testing Applications with the NorNet Infrastructure](#)”, in *Proceedings of the MELODIC Plenary Meeting*, Warszawa, Masovia/Poland, September 21, 2017.
- ✓ T. Dreibholz: “[Multi-Path Transport at Hainan University – From Simulations to Real-World Internet Measurements in the NorNet Testbed](#)”, Keynote Talk at Hainan University, College of Information Science and Technology (CIST), Haikou, Hainan/People’s Republic of China, April 18, 2017.
- ✓ T. Dreibholz: “[The Basics of Using the NorNet Core Testbed at Hainan University](#)”, Tutorial at Hainan University, College of Information Science and Technology (CIST), Haikou, Hainan/People’s Republic of China, April 18, 2017.
- ✓ T. Dreibholz: “[A Practical Introduction to NEAT at Hainan University](#)”, Invited Talk at Hainan University, College of Information Science and Technology (CIST), Haikou, Hainan/People’s Republic of China, April 17, 2017.
- ✓ T. Dreibholz: “[An Experiment Tutorial for the NorNet Core Testbed at the the Universidad de Castilla-La Mancha](#)”, Tutorial at the Universidad de Castilla-La Mancha, Instituto de Investigación Informática de Albacete, Albacete, Castilla-La Mancha/Spain, February 16, 2017.

Publications (continued)

- ✓ T. Dreibholz: “[Multi-Path Transport – From Simulations to Real-World Internet Measurements](#)”, Keynote Talk at the Universidad de Castilla-La Mancha, Instituto de Investigación Informática de Albacete, Albacete, Castilla-La Mancha/Spain, February 16, 2017.
 - ✓ T. Dreibholz: “[Multi-Path Transport with OMNeT++ and the INET Framework](#)”, Invited Talk at the Universidad de Castilla-La Mancha, Instituto de Investigación Informática de Albacete, Albacete, Castilla-La Mancha/Spain, February 16, 2017.
 - ✓ T. Dreibholz: “[An Experiment Tutorial for the NorNet Core Testbed at the University of Sydney](#)”, Tutorial at University of Sydney, School of Information Technologies, Sydney, New South Wales/Australia, January 24, 2017.
 - ✓ T. Dreibholz: “[NorNet at the University of Sydney – An Introduction to the NorNet Core Testbed](#)”, Invited Talk at University of Sydney, School of Information Technologies, Sydney, New South Wales/Australia, January 24, 2017.
- 2016**
- ✓ T. Dreibholz: “[NorNet – Building an Inter-Continental Internet Testbed based on Open Source Software](#)”, in *Proceedings of the LinuxCon Europe*, Berlin/Germany, October 5, 2016.
 - ✓ T. Dreibholz: “[NorNet – The Internet Testbed for Multi-Homed Systems](#)”, in *Proceedings of the Multi-Service Networks Conference (MSN, Coseners)*, Abingdon, Oxfordshire/United Kingdom, July 8, 2016.
 - ✓ T. Dreibholz: “[NorNet at the Haikou College of Economics – An Introduction to the NorNet Testbed](#)”, Invited Talk at the Haikou College of Economics, Guilinyang, Hainan/People’s Republic of China, June 6, 2016.
 - ✓ T. Dreibholz: “[An Experiment Tutorial for the NorNet Core Testbed at Hainan University](#)”, Tutorial at Hainan University, College of Information Science and Technology (CIST), Haikou, Hainan/People’s Republic of China, May 29, 2016.
 - ✓ T. Dreibholz: “[NorNet at Hainan University – An Introduction to the NorNet Testbed](#)”, Invited Talk at Hainan University, College of Information Science and Technology (CIST), Haikou, Hainan/People’s Republic of China, May 29, 2016.
 - ✓ T. Dreibholz: “[An Experiment Tutorial for the NorNet Core Testbed at HAW Hamburg](#)”, Tutorial at Hochschule für Angewandte Wissenschaften Hamburg (HAW Hamburg), Hamburg/Germany, March 22, 2016.
 - ✓ T. Dreibholz: “[NorNet at HAW Hamburg – An Introduction to the NorNet Testbed](#)”, Invited Talk at Hochschule für Angewandte Wissenschaften Hamburg (HAW Hamburg), Hamburg/Germany, March 22, 2016.
 - ✓ T. Dreibholz: “[An Experiment Tutorial for the NorNet Core Testbed at NICTA](#)”, Tutorial at National Information Communications Technology Australia (NICTA), Sydney, New South Wales/Australia, January 22, 2016.
 - ✓ T. Dreibholz: “[NorNet at NICTA – An Introduction to the NorNet Testbed](#)”, Invited Talk at National Information Communications Technology Australia (NICTA), Sydney, New South Wales/Australia, January 22, 2016.
- 2015**
- ✓ T. Dreibholz: “[The NorNet Experimentation Platform for Multi-Homed Systems](#)”, in *Proceedings of the NORDUnet Technical Workshop (NTW)*, København/Denmark, September 17, 2015.

Publications (continued)

- ✓ T. Dreibholz: “[The NorNet Core Testbed: A Status Update for the NNUW-3](#)”, in *Proceedings of the 3rd International NorNet Users Workshop (NNUW-3)*, Fornebu, Akershus/Norway, August 28, 2015.
- ✓ T. Dreibholz: “[MPTCP Experiences in the NorNet Testbed: draft-dreibholz-mptcp-nornet-experience-01](#)”, in *Proceedings of the 93th IETF Meeting*, Praha/Czech Republic, July 21, 2015.
- ✓ T. Dreibholz: “[The NorNet Testbed – A Large-Scale Experiment Platform for Real-World Experiments with Multi-Homed Systems](#)”, Invited Talk at Swinburne University, Centre for Advanced Internet Architectures (CAIA), Melbourne, Victoria/Australia, January 29, 2015.
- ✓ T. Dreibholz: “[NorNet at NICTA – An Open, Large-Scale Testbed for Multi-Homed Systems](#)”, Invited Talk at National Information Communications Technology Australia (NICTA), Sydney, New South Wales/Australia, January 15, 2015.
- ✓ T. Dreibholz: “[The NorNet Testbed at Tsinghua University – A Large-Scale Experiment Platform for Real-World Experiments with Multi-Homed Systems](#)”, Invited Talk at Tsinghua University, Department of Computer Science, Beijing/People’s Republic of China, October 30, 2014.
- ✓ T. Dreibholz: “[An Experiment Tutorial for the NorNet Core Testbed at Hainan University](#)”, Tutorial at Hainan University, College of Information Science and Technology (CIST), Haikou, Hainan/People’s Republic of China, October 27, 2014.
- ✓ T. Dreibholz: “[The NorNet Testbed at Qiongzhou University – A Large-Scale Experiment Platform for Real-World Experiments with Multi-Homed Systems](#)”, Invited Talk at Qiongzhou University, Sanya, Hainan/People’s Republic of China, October 25, 2014.
- ✓ T. Dreibholz: “[The NorNet Testbed at Hainan University – A Large-Scale Experiment Platform for Real-World Experiments with Multi-Homed Systems](#)”, Invited Talk at Hainan University, College of Information Science and Technology (CIST), Haikou, Hainan/People’s Republic of China, October 20, 2014.
- ✓ T. Dreibholz: “[The NorNet Testbed – An Overview for the GENI Meeting](#)”, Invited Talk for the GENI Meeting at the Kungliga Tekniska högskolan (KTH), Stockholm/Sweden, September 15, 2014.
- ✓ T. Dreibholz: “[An Experiment Tutorial for the NorNet Core Testbed](#)”, in *Proceedings of the 2nd International NorNet Users Workshop (NNUW-2)*, Fornebu, Akershus/Norway, August 29, 2014.
- ✓ Ö. Alay, S. Ferlin and T. Dreibholz: “[Multipath Transport over Heterogeneous Networks](#)”, in *Proceedings of the 2nd International NorNet Users Workshop (NNUW-2)*, Fornebu, Akershus/Norway, August 29, 2014.
- ✓ T. Dreibholz: “[The NorNet Core Testbed – Introduction and Status in August 2014](#)”, in *Proceedings of the 2nd International NorNet Users Workshop (NNUW-2)*, Fornebu, Akershus/Norway, August 28, 2014.
- ✓ T. Dreibholz: “[The NorNet Testbed for Multi-Homed Systems – Overview and Status](#)”, Invited Talk at the University of British Columbia (UBC), Vancouver, British Columbia/Canada, May 12, 2014.
- ✓ T. Dreibholz: “[The NorNet Testbed for Multi-Homed Systems – Introduction and Status](#)”, Invited Talk at Princeton University, Department of Computer Science, Princeton, New Jersey/U.S.A., May 8, 2014.

2014

Publications (continued)

- ✓ T. Dreibholz: “[The NorNet Testbed – Overview and Selected Results from Multi-Path Transport Research](#)”, Invited Talk at the New York University (NYU), Polytechnic School of Engineering, Brooklyn, New York/U.S.A., May 5, 2014.
- ✓ T. Dreibholz: “[On the Applicability of Reliable Server Pooling for Virtualised Network Function Resource Pooling](#)”, in *Proceedings of the 89th IETF Meeting*, London/United Kingdom, March 4, 2014.
- ✓ T. Dreibholz: “[The Status of MPTCP Deployment and Evaluation in the NorNet Testbed](#)”, in *Proceedings of the 89th IETF Meeting*, London/United Kingdom, March 3, 2014.
- ✓ T. Dreibholz: “[NorNet – An Open, Large-Scale Testbed for Multi-Homed Systems](#)”, Invited Talk at Swinburne University, Centre for Advanced Internet Architectures (CAIA), Melbourne, Victoria/Australia, January 30, 2014.

2013

- ✓ T. Dreibholz: “[The NorNet Core Testbed – An Experiment Tutorial](#)”, in *Proceedings of the 1st International NorNet Users Workshop (NNUW-1)*, Fornebu, Akershus/Norway, September 19, 2013.
- ✓ T. Dreibholz: “[The NorNet Core Testbed – Introduction and Status](#)”, in *Proceedings of the 1st International NorNet Users Workshop (NNUW-1)*, Fornebu, Akershus/Norway, September 18, 2013.
- ✓ T. Dreibholz: “[The NorNet Project – A Research Testbed for Multi-Path Transport](#)”, Invited Talk at Technische Universität Berlin, Department of Telecommunication Networks, Berlin/Germany, August 1, 2013.
- ✓ T. Dreibholz: “[The NorNet Testbed: A Platform for Evaluating Multi-Path Transport in the Real-World Internet](#)”, in *Proceedings of the 87th IETF Meeting*, Berlin/Germany, July 30, 2013.
- ✓ T. Dreibholz and S. Ferlin: “[The NorNet Research Testbed](#)”, Talk, in *Proceedings of the CHANGE Bootcamp Workshop*, Louvain-la-Neuve/Belgium, July 17, 2013.
- ✓ T. Dreibholz: “[An Overview of the NorNet Testbed for Multi-Homed Systems](#)”, Invited Talk at Høgskolen i Oslo og Akershus (HiOA), Oslo/Norway, April 18, 2013.
- ✓ T. Dreibholz: “[The NorNet Project – An Introduction to NorNet for the Site Deployment at NTNU Trondheim](#)”, Invited Talk at Norges teknisk-naturvitenskapelige universitet (NTNU), Trondheim, Sør-Trøndelag/Norway, April 12, 2013.
- ✓ T. Dreibholz: “[An Introduction to NorNet for the Site Deployment at Høgskolen i Narvik](#)”, Invited Talk at Høgskolen i Narvik (HiN), Narvik, Nordland/Norway, March 12, 2013.
- ✓ T. Dreibholz: “[An Overview of NorNet Core](#)”, Invited Talk at the Geilo Seminar of the Simula Research Laboratory, Network Systems Group, Geilo, Buskerud/Norway, March 9, 2013.

2012

- ✓ T. Dreibholz: “[An Introduction to NorNet Core for the Site Deployment at Universitetet i Stavanger](#)”, Invited Talk at Universitetet i Stavanger (UiS), Stavanger, Rogaland/Norway, November 27, 2012.
- ✓ T. Dreibholz: “[The NorNet Project – A Research Testbed for Multi-Homed Systems](#)”, Invited Talk at Karlstads Universitet, Karlstad, Värmland/Sweden, November 2, 2012.

Publications (continued)

- ✓ H. Adhari, M. Becke and T. Dreibholz: “[On the Fairness of Transport Protocols in a Multi-Path Environment](#)”, in *Proceedings of the 83rd IETF Meeting*, Paris/France, March 27, 2012.
- ✓ T. Dreibholz: “[Konzepte für das Future Internet aus der Netzperspektive](#)”, Habilitation Talk, University of Duisburg-Essen, Faculty of Economics, Institute for Computer Science and Business Information Systems, URN [urn:nbn:de:hbz:464-20120404-135350-0](#), March 13, 2012.
- 2011 ✓ T. Dreibholz: “[Multipath-Transfer mit dem Stream Control Transmission Protocol](#)”, Invited Talk at Technische Universität Darmstadt, Multimedia Communications Lab, Darmstadt, Hessen/Germany, November 16, 2011.
- 2010 ✓ T. Dreibholz: “[Buffer Splitting for Efficient Transport over Asymmetric Paths](#)”, Talk at the SIG Multipath Meeting during the 10th Joint EuroFGI and ITG Workshop on Visions of Future Network Generations (EuroView), Würzburg, Bayern/Germany, August 4, 2010.
- 2008 ✓ T. Dreibholz and X. Zhou: “[SCTP and RSerPool: Architectures and Protocols for the Future Internet](#)”, Invited Talk at Hainan University, College of Information Science and Technology (CIST), Haikou, Hainan/People’s Republic of China, September 26, 2008.
- 2007 ✓ T. Dreibholz: “[An Introduction to Reliable Server Pooling and the RSPLIB Implementation](#)”, Invited Talk at Hainan University, College of Information Science and Technology (CIST), Haikou, Hainan/People’s Republic of China, December 2, 2007.
- ✓ T. Dreibholz: “[Hochverfügbarkeit mit Reliable Server Pooling](#)”, in *Proceedings of the Linuxtage in Essen*, Essen, Nordrhein-Westfalen/Germany, November 10, 2007.
- 2006 ✓ T. Dreibholz: “[RSPLIB – Eine Open Source Implementation von Reliable Server Pooling](#)”, in *Proceedings of the Linuxtage in Essen*, Essen, Nordrhein-Westfalen/Germany, September 9, 2006.
- 2005 ✓ T. Dreibholz: “[draft-ietf-rserpool-mib-01.txt – Management Information Base Definition for Reliable Server Pooling](#)”, in *Proceedings of the 63rd IETF Meeting*, Paris/France, August 1, 2005.
- 2004 ✓ T. Dreibholz: “[draft-ietf-rserpool-policies-00.txt – Definition of Member Selection Policies](#)”, in *Proceedings of the 61st IETF Meeting*, Washington, DC/U.S.A., November 8, 2004.
- ✓ T. Dreibholz: “[Member Selection Policies for the Reliable Server Pooling Protocol Suite](#)”, in *Proceedings of the 60th IETF Meeting*, San Diego, California/U.S.A., August 5, 2004.
- ✓ T. Dreibholz: “[Policy Management in the Reliable Server Pooling Architecture](#)”, in *Proceedings of the Multi-Service Networks Conference (MSN, Coseners)*, Abingdon, Oxfordshire/United Kingdom, July 8, 2004.

Datasets

- 2024 ✓ J. M. Evang and T. Dreibholz: “Reflection Server Tuning Dataset”, IEEE DataPort, DOI [10.21227/8wbz-7e29](#), February 2, 2024.

Publications (continued)

- 2023 ✓ T. Dreibholz and S. Mazumdar: “TARTAN Traceroute Dataset”, IEEE DataPort, DOI [10.21227/a241-gm35](https://doi.org/10.21227/a241-gm35), November 9, 2023.

IETF RFCs

- 2009 ✓ T. Dreibholz and J. Mulik: “Reliable Server Pooling MIB Module Definition”, RFC 5525, IETF, DOI [10.17487/RFC5525](https://doi.org/10.17487/RFC5525), ISSN 2070-1721, April 22, 2009.

- 2008 ✓ P. Lei, L. Ong, M. Tüxen and T. Dreibholz: “An Overview of Reliable Server Pooling Protocols”, Informational RFC 5351, IETF, DOI [10.17487/RFC5351](https://doi.org/10.17487/RFC5351), ISSN 2070-1721, September 30, 2008.

- ✓ T. Dreibholz and M. Tüxen: “Reliable Server Pooling Policies”, RFC 5356, IETF, DOI [10.17487/RFC5356](https://doi.org/10.17487/RFC5356), ISSN 2070-1721, September 30, 2008.

IETF Internet Drafts

- 2024 ✓ T. Dreibholz: “An IPv4 Flowlabel Option”, Internet Draft draft-dreibholz-ipv4-flowlabel-39, IETF, Individual Submission, March 30, 2024.

- ✓ T. Dreibholz: “Applicability of Reliable Server Pooling for Real-Time Distributed Computing”, Internet Draft draft-dreibholz-rserpool-applic-distcomp-36, IETF, Individual Submission, March 30, 2024.

- ✓ T. Dreibholz and J. Pulinthanath: “Applicability of Reliable Server Pooling for SCTP-Based Endpoint Mobility”, Internet Draft draft-dreibholz-rserpool-applic-mobility-35, IETF, Individual Submission, March 30, 2024.

- ✓ T. Dreibholz and X. Zhou: “Definition of a Delay Measurement Infrastructure and Delay-Sensitive Least-Used Policy for Reliable Server Pooling”, Internet Draft draft-dreibholz-rserpool-delay-33, IETF, Individual Submission, March 30, 2024.

- ✓ T. Dreibholz: “Handle Resolution Option for ASAP”, Internet Draft draft-dreibholz-rserpool-asap-hropt-34, IETF, Individual Submission, March 30, 2024.

- ✓ T. Dreibholz: “Ideas for a Next Generation of the Reliable Server Pooling Framework”, Internet Draft draft-dreibholz-rserpool-nextgen-ideas-21, IETF, Individual Submission, March 30, 2024.

- ✓ T. Dreibholz: “Ideas for a Next Generation of the Stream Control Transmission Protocol (SCTP)”, Internet Draft draft-dreibholz-tsvwg-sctp-nextgen-ideas-19, IETF, Individual Submission, March 30, 2024.

- ✓ T. Dreibholz and M. Tüxen: “Reliable Server Pooling (RSerPool) Bakeoff Scoring”, Internet Draft draft-dreibholz-rserpool-score-34, IETF, Individual Submission, March 30, 2024.

- ✓ T. Dreibholz, M. Becke and H. Adhari: “SCTP Socket API Extensions for Concurrent Multipath Transfer”, Internet Draft draft-dreibholz-tsvwg-sctpsocket-multipath-28, IETF, Individual Submission, March 30, 2024.

- ✓ C. Hohendorf, E. Unurkhaan and T. Dreibholz: “Secure SCTP”, Internet Draft draft-hohendorf-secure-sctp-37, IETF, Individual Submission, March 30, 2024.

Publications (continued)

- ✓ T. Dreibholz, R. Seggelmann and M. Becke: “[Sender Queue Info Option for the SCTP Socket API](#)”, Internet Draft draft-dreibholz-tsvwg-sctpsocket-sqinfo-28, IETF, Individual Submission, March 30, 2024.
- ✓ T. Dreibholz and X. Zhou: “[Takeover Suggestion Flag for the ENRP Handle Update Message](#)”, Internet Draft draft-dreibholz-rserpool-enrp-takeover-31, IETF, Individual Submission, March 30, 2024.
- ✓ M. Becke, T. Dreibholz, N. Ekiz, J. R. Iyengar, P. Natarajan, R. R. Stewart and M. Tüxen: “[Load Sharing for the Stream Control Transmission Protocol \(SCTP\)](#)”, Internet Draft draft-tuxen-tsvwg-sctp-multipath-27, IETF, Individual Submission, March 1, 2024.
- ✓ T. Dreibholz: “[NEAT Sockets API](#)”, Internet Draft draft-dreibholz-taps-neat-socketapi-14, IETF, Individual Submission, March 1, 2024.
- 2023**
 - ✓ T. Dreibholz, L. Coene and P. T. Conrad: “[Reliable Server Pooling Applicability for IP Flow Information Exchange](#)”, Internet Draft draft-coene-rserpool-applic-ipfix-20, IETF, Individual Submission, March 25, 2023.
- 2019**
 - ✓ T. Dreibholz, S. Ferlin, Ö. Alay, A. M. Elmokashfi, I. A. Livadariu and X. Zhou: “[MPTCP Experiences in the NorNet Testbed](#)”, Internet Draft draft-dreibholz-mptcp-nornet-experience-05, IETF, Individual Submission, December 3, 2019.
 - ✓ T. Dreibholz, M. Tüxen, M. Shore and N. Zong: “[The Applicability of Reliable Server Pooling \(RSerPool\) for Virtual Network Function Resource Pooling \(VNF-POOL\)](#)”, Internet Draft draft-dreibholz-vnfpool-rserpool-applic-09, IETF, Individual Submission, September 11, 2019.
- 2005**
 - ✓ A. J. Silvertson, Q. Xie, M. Tüxen and T. Dreibholz: “[Reliable Server Pooling Sockets API Extensions](#)”, Internet Draft draft-ietf-rserpool-api-00, IETF, October 17, 2005.