

Priv.-Doz. Dr. Thomas Dreibholz

Forsker og utvikler av datanettverk



Personlige opplysninger

Akademisk tittel	✓ Priv.-Doz. Dr. rer. nat. Dipl.-Inform.
Fornavn	✓ Thomas
Efternavn	✓ Dreibholz
Internett	✓ dreibh@iem.uni-due.de https://www.uni-due.de/~be0001
OpenPGP-nøkkel	✓ 21412672518D8B2D1862EFEF5CD5D12AA0877B49 (https://www.uni-due.de/~be0001/key.asc) Fingeravtrykk: 2141 2672 518D 8B2D 1862 EFEF 5CD5 D12A A087 7B49
Jobbadresse	✓ Simula Metropolitan Centre for Digital Engineering A/S Centre for Resilient Networks and Applications (CRNA) Pilestredet 52 0167 Oslo Norge

Arbeidserfaring

Nåværende jobb

2012 – ...	✓ Sjef-forskningsingeniør i Simula Metropolitan Centre for Digital Engineering (del av Simula Research Laboratory) i Oslo, Norge. https://www.simula.no Ansvar: <ul style="list-style-type: none">• Forskning: Multi-Path Transport, Multi-Path TCP (MPTCP), Quality of Service (QoS), Nettsikkerhet, Network of the Future• Utvikling: Utvikling og forvaltning av NORNET CORE testbed
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Arbeidserfaring (fortsettelse)

Tidligere jobber

2001 – 2012

- ✓ Assisterende professor i Nettverksteknologi-gruppe ved Institutt for eksperimentell matematikk ved Universitetet i Duisburg-Essen i Essen, Tyskland.

<https://www.tdr.wiwi.uni-due.de>

Ansvar:

- **Forskning:** Stream Control Transmission Protocol (SCTP), Reliable Server Pooling (RSerPool), Flow-routing, Quality of Service, Nettverkssikkerhet
- **Undervisning:** Nettverksprotokoller, Nettverkssikkerhet, Quality of Service, Linux Traffic Control

2002 – 2012

- ✓ Cisco Certified Academy Instructor (CCAI) i Cisco Networking Academy ved Universitetet i Duisburg-Essen i Essen, Tyskland.

<http://cna.uni-due.de>

Ansvar:

- **Undervisning:** Cisco Networking Academy (CNA) læreplan
- **Administrasjon:** Akademie-, kurs- og studenter-forvaltning, administrasjon av websiden til akademiet

2000

- ✓ Vitenskapelig assistent i Nettverksteknologi-gruppe ved Institutt for informatikk IV ved Universitetet i Bonn, Tyskland.

<https://net.cs.uni-bonn.de>

Utdannelse

Mars 2012

- ✓ **Habilitasjon (Priv.-Doz.) i informatikk**

fra Universitetet i Duisburg-Essen i Essen, Tyskland.

- **Avhandling:** Evaluation and Optimisation of Multi-Path Transport using the Stream Control Transmission Protocol
- **Sensor:** Prof. Dr.-Ing. Erwin P. Rathgeb, Prof. Dr.-Ing. Ralf Steinmetz, Prof. Dr. Paul Müller

<https://www.uni-due.de/~be0001/sctp/>

Mars 2007

- ✓ **Doktorgrad (Dr. rer. nat.) i informatikk**

fra Universitetet i Duisburg-Essen i Essen, Tyskland.

- **Avhandling:** Reliable Server Pooling – Evaluation, Optimization and Extension of a Novel IETF Architecture
- **Sensor:** Prof. Dr.-Ing. Erwin P. Rathgeb, Prof. Dr. Klaus Echtele

<https://www.uni-due.de/~be0001/rserpool/>

Oktober 2002

- ✓ Sertifisering som **Cisco Certified Network Associate (CCNA)** og **Cisco Certified Academy Instructor (CCAI)** fra Cisco Networking Academy ved Universitetet i Duisburg-Essen i Essen, Tyskland.

<http://cna.uni-due.de>

Mai 2001

- ✓ **Mastergrad i informatikk (Dipl.-Inform.)**

fra Universitetet i Bonn, Tyskland.

- **Avhandling:** Management of Layered Variable Bitrate Multimedia Streams over DiffServ with A Priori Knowledge
- **Veileder:** Prof. Dr. Peter Martini, Prof. Dr. Armin B. Cremers

<https://www.uni-due.de/~be0001/diplom/index.html>

Oktober 1998

- ✓ **Bachelorgrad (Vordiplom) i informatikk**

fra Universitetet i Bonn, Tyskland.

<https://www.informatik.uni-bonn.de>

Utmerkelser

- September 2015** ✓ **Best Paper Award** for artikkelen “[Eclipse: A New Dynamic Delay-based Congestion Control Algorithm for Background Traffic](#)” til 18th International Conference on Network-Based Information Systems (NBiS 2015).
- Desember 2014** ✓ **Best Paper Award** for artikkelen “[Measuring and Comparing Internet Path Stability in IPv4 and IPv6](#)” til 5th IEEE International Conference on the Network of the Future (NoF 2014).
- November 2009** ✓ **Vitenskapsprisen** fra Sparkasse Essen for doktorgradavhandlingen “[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 forskningsprosjektet “Study of Next Generation Internet New Protocol – RSerPool” i samarbeid med Universitetet på Hainan i Haikou, Hainan/Kina.
- Februar 2008** ✓ **Best Paper Award** for artikkelen “[Reliable Server Pooling – A Novel IETF Architecture for Availability-Sensitive Services](#)” til 2nd IEEE International Conference on Digital Society (ICDS 2008).

Publikasjoner

Bøker

- 2012** ✓ T. Dreibholz: “[Evaluation and Optimisation of Multi-Path Transport using the Stream Control Transmission Protocol](#)”, habilitasjonsavhandling, University of Duisburg-Essen, Faculty of Economics, Institute for Computer Science and Business Information Systems, URN [urn:nbn:de:hbz:464-20120315-103208-1](#), 13. mars 2012.
- 2007** ✓ T. Dreibholz: “[Reliable Server Pooling – Evaluation, Optimization and Extension of a Novel IETF Architecture](#)”, doktoravhandling, University of Duisburg-Essen, Faculty of Economics, Institute for Computer Science and Business Information Systems, URN [urn:nbn:de:hbz:465-20070308-164527-0](#), 7. mars 2007. **Utmerket med Vitenskapsprisen fra Sparkasse Essen.**
- 2001** ✓ T. Dreibholz: “[Management of Layered Variable Bitrate Multimedia Streams over DiffServ with Apriori Knowledge](#)”, masteroppgave, University of Bonn, Institute for Computer Science, URN [urn:nbn:de:hbz:464-20120416-095753-8](#), 20. februar 2001.

Vitenskapelige artikler i tidsskrifter

- 2020** ✓ R. Barik, M. Welzl, G. Fairhurst, T. Dreibholz, A. M. Elmokashfi og S. Gjessing: “[On the Usability of Transport Protocols other than TCP: A Home Gateway and Internet Path Traversal Study](#)”, i *Computer Networks*, bind 173, Elsevier, DOI [10.1016/j.comnet.2020.107211](#), ISSN 1389-1286, 22. mai 2020.
- 2019** ✓ R. Barik, M. Welzl, A. M. Elmokashfi, T. Dreibholz, S. Islam og S. Gjessing: “[On the Utility of Unregulated IP DiffServ Code Point \(DSCP\) Usage by End Systems](#)”, i *Performance Evaluation*, bind 135, Elsevier, DOI [10.1016/j.peva.2019.102036](#), ISSN 0166-5316, 26. august 2019.

Publikasjoner (fortsettelse)

- 2016** ✓ K. V. Yedugundla, S. Ferlin, T. Dreibholz, Ö. Alay, N. Kuhn, P. Hurtig og A. Brunström: “[Is Multi-Path Transport Suitable for Latency Sensitive Traffic?](#)”, i *Computer Networks*, bind 105, side 1–21, Elsevier, DOI [10.1016/j.comnet.2016.05.008](#), ISSN 1389-1286, 4. august 2016.
- 2014** ✓ E. G. Gran, T. Dreibholz og A. Kvalbein: “[NorNet Core – A Multi-Homed Research Testbed](#)”, i *Computer Networks, Special Issue on Future Internet Testbeds*, bind 61, side 75–87, DOI [10.1016/j.bjp.2013.12.035](#), ISSN 1389-1286, 14. mars 2014.
- 2011** ✓ T. Dreibholz, I. Rüngeler, R. Seggelmann, M. Tüxen, E. P. Rathgeb og R. R. Stewart: “[Stream Control Transmission Protocol: Past, Current, and Future Standardization Activities](#)”, i *IEEE Communications Magazine*, bind 49, nummer 4, side 82–88, DOI [10.1109/MCOM.2011.5741151](#), ISSN 0163-6804, 5. april 2011.
- 2010** ✓ T. Dreibholz, X. Zhou, M. Becke, J. Pulinthanath, E. P. Rathgeb og W. Du: “[On the Security of Reliable Server Pooling Systems](#)”, i *International Journal on Intelligent Information and Database Systems (IJIDS)*, bind 4, nummer 6, side 552–578, DOI [10.1504/IJIDS.2010.036894](#), ISSN 1751-5858, desember 2010.
- 2009** ✓ T. Dreibholz og E. P. Rathgeb: “[Overview and Evaluation of the Server Redundancy and Session Failover Mechanisms in the Reliable Server Pooling Framework](#)”, i *International Journal on Advances in Internet Technology (IJAIT)*, bind 2, nummer 1, side 1–14, ISSN 1942-2652, 8. juni 2009.
- ✓ W. Zhu, T. Dreibholz, E. P. Rathgeb og X. Zhou: “[A Scalable QoS Device for Broadband Access to Multimedia Services](#)”, i *SERSC International Journal of Multimedia and Ubiquitous Engineering (IJMUE)*, bind 4, nummer 2, side 157–172, ISSN 1975-0080, 30. april 2009.
- 2008** ✓ T. Dreibholz og E. P. Rathgeb: “[An Evaluation of the Pool Maintenance Overhead in Reliable Server Pooling Systems](#)”, i *SERSC International Journal on Hybrid Information Technology (IJHIT)*, bind 1, nummer 2, side 17–32, ISSN 1738-9968, april 2008.

Vitenskapelige bidrager til konferanser

- 2020** ✓ M. Chen, T. Dreibholz, X. Zhou og X. Yang: “[Improvement and Implementation of a Multi-Path Management Algorithm Based on MPTCP](#)”, i *Proceedings of the 45th IEEE Conference on Local Computer Networks (LCN)*, Sydney, New South Wales/Australia, 16. november 2020.
- ✓ T. Dreibholz: “[HiPerConTracer - A Versatile Tool for IP Connectivity Tracing in Multi-Path Setups](#)”, i *Proceedings of the 28th IEEE International Conference on Software, Telecommunications and Computer Networks (SoftCOM)*, DOI [10.23919/SoftCOM50211.2020.9238278](#), ISBN 978-953-290-099-6, Hvar, Dalmacija/Croatia, 17. september 2020.
- ✓ I. A. Livadariu, T. Dreibholz, A. S. Al-Selwi, H. Bryhni, O. Lysne, S. Bjørnstad og A. M. Elmokashfi: “[On the Accuracy of Country-Level IP Geolocation](#)”, i *Proceedings of the ACM/IRTF Applied Networking Research Workshop (ARNW)*, side 67–73, DOI [10.1145/3404868.3406664](#), ISBN 978-1-4503-8039-3, Madrid/Spain, 27. juli 2020.

Publikasjoner (fortsettelse)

- ✓ P. Saxena, T. Dreibholz, H. Skinnemoen, Ö. Alay, Á. Vazquez-Castro, S. Ferlin og G. Acar: “[Resilient Hybrid SatCom and Terrestrial Networking for Unmanned Aerial Vehicles](#)”, i *Proceedings of the 39th IEEE International Conference on Computer Communications (INFOCOM), International Workshop on Wireless Sensor, Robot and UAV Networks (WiSARN)*, DOI [10.1109/INFOCOMWKSHP50562.2020.9162943](#), ISBN 978-1-7281-8696-2, Toronto, Ontario/Canada, 6. juli 2020.
- ✓ M. Xie, J. S. Pujol-Roig, F. Michelinakis, T. Dreibholz, C. Guerrero, A. G. Sánchez, W. Y. Poe, Y. Wang og A. M. Elmokashfi: “[AI-Driven Closed-Loop Service Assurance with Service Exposures](#)”, i *Proceedings of the 29th IEEE European Conference on Networks and Communications (EuCNC)*, DOI [10.1109/EuCNC48522.2020.9200943](#), ISBN 978-1-7281-4355-2, Dubrovnik, Dubrovnik-Neretva/Croatia, 17. juni 2020.
- ✓ T. Dreibholz: “[Flexible 4G/5G Testbed Setup for Mobile Edge Computing using OpenAirInterface and Open Source MANO](#)”, i *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)*, side 1143–1153, DOI [10.1007/978-3-030-44038-1_105](#), ISBN 978-3-030-44037-4, Caserta, Campania/Italy, 15. april 2020.

2019

- ✓ Y. Luo, X. Zhou, T. Dreibholz og H. Kuang: “[A Real-Time Video Streaming System over IPv6+MPTCP Technology](#)”, i *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)*, side 1007–1019, DOI [10.1007/978-3-030-15035-8_99](#), ISBN 978-3-030-15034-1, Matsue, Shimane/Japan, 27. mars 2019.
- ✓ J. Hong, T. Dreibholz, J. A. Schenkel og J. A. Hu: “[An Overview of Multi-Cloud Computing](#)”, i *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)*, side 1055–1068, DOI [10.1007/978-3-030-15035-8_103](#), ISBN 978-3-030-15034-1, Matsue, Shimane/Japan, 27. mars 2019.
- ✓ T. Dreibholz, S. Mazumdar, F. Zahid, A. Taherkordi og E. G. Gran: “[Mobile Edge as Part of the Multi-Cloud Ecosystem: A Performance Study](#)”, i *Proceedings of the 27th Euromicro International Conference on Parallel, Distributed and Network-Based Processing (PDP)*, side 59–66, DOI [10.1109/EMPDP.2019.8671599](#), ISBN 978-1-7281-1644-0, Pavia, Lombardia/Italy, 13. februar 2019.

2018

- ✓ Q. Tan, X. Yang, L. Zhao, X. Zhou og T. Dreibholz: “[A Statistic Procedure to Find Formulae for Buffer Size in MPTCP](#)”, i *Proceedings of the 3rd IEEE Advanced Information Technology, Electronic and Automation Control Conference (IAEAC)*, side 900–907, DOI [10.1109/IAEAC.2018.8577570](#), ISBN 978-1-5386-4509-3, Chongqing/People’s Republic of China, 13. oktober 2018.
- ✓ R. Barik, M. Welzl, A. M. Elmokashfi, T. Dreibholz og S. Gjessing: “[Can WebRTC QoS Work? A DSCP Measurement Study](#)”, i *Proceedings of the 30th International Teletraffic Congress (ITC)*, side 167–175, DOI [10.1109/ITC30.2018.00034](#), ISBN 978-0-9883045-5-0, Wien/Austria, 6. september 2018.

Publikasjoner (fortsettelse)

- 2017**
- ✓ K. Wang, T. Dreibholz, X. Zhou, F. Fu, Y. Tan, X. Cheng og Q. Tan: “[On the Path Management of Multi-Path TCP in Internet Scenarios based on the NorNet Testbed](#)”, i *Proceedings of the IEEE International Conference on Advanced Information Networking and Applications (AINA)*, side 1–8, DOI [10.1109/AINA.2017.29](#), ISBN 978-1-5090-6028-3, Taipei, Taiwan/People’s Republic of China, 27. mars 2017.
 - ✓ F. Zhou, T. Dreibholz, X. Zhou, F. Fu, Y. Tan og Q. Gan: “[The Performance Impact of Buffer Sizes for Multi-Path TCP in Internet Setups](#)”, i *Proceedings of the IEEE International Conference on Advanced Information Networking and Applications (AINA)*, side 9–16, DOI [10.1109/AINA.2017.26](#), ISBN 978-1-5090-6028-3, Taipei, Taiwan/People’s Republic of China, 27. mars 2017.
- 2016**
- ✓ S. Ferlin, Ö. Alay, D. A. Hayes, T. Dreibholz og M. Welzl: “[Revisiting Congestion Control for Multipath TCP with Shared Bottleneck Detection](#)”, i *Proceedings of the 35th IEEE International Conference on Computer Communications (INFOCOM)*, side 2419–2427, ISBN 978-1-4673-9953-1, San Francisco, California/U.S.A., 14. april 2016.
- 2015**
- ✓ F. Fu, X. Zhou, T. Dreibholz, K. Wang, F. Zhou og Q. Gan: “[Performance Comparison of Congestion Control Strategies for Multi-Path TCP in the NorNet Testbed](#)”, i *Proceedings of the 4th IEEE/CIC International Conference on Communications in China (ICCC)*, side 607–612, DOI [10.1109/ICCCChina.2015.7448667](#), ISBN 978-1-5090-0243-6, Shenzhen, Guangdong/People’s Republic of China, 3. november 2015.
 - ✓ H. Adhari, T. Dreibholz, S. Werner og E. P. Rathgeb: “[Eclipse: A New Dynamic Delay-based Congestion Control Algorithm for Background Traffic](#)”, i *Proceedings of the 18th International Conference on Network-Based Information Systems (NBIS)*, side 115–123, DOI [10.1109/NBiS.2015.21](#), ISBN 978-1-4799-9942-2, Taipei/Taiwan, 2. september 2015. **Utmerket med Best Paper Award.**
 - ✓ I. A. Livadariu, S. Ferlin, Ö. Alay, T. Dreibholz, A. Dhamdhere og A. M. El-mokashfi: “[Leveraging the IPv4/IPv6 Identity Duality by using Multi-Path Transport](#)”, i *Proceedings of the 18th IEEE Global Internet Symposium (GI) at the 34th IEEE Conference on Computer Communications (INFOCOM)*, side 312–317, DOI [10.1109/INFCOMW.2015.7179403](#), ISBN 978-1-4673-7131-5, Hong Kong/People’s Republic of China, 27. april 2015.
 - ✓ T. Dreibholz, J. Bjørgeengen og J. Werme: “[Monitoring and Maintaining the Infrastructure of the NorNet Testbed for Multi-Homed Systems](#)”, i *5th International Workshop on Protocols and Applications with Multi-Homing Support (PAMS)*, side 611–616, DOI [10.1109/WAINA.2015.76](#), ISBN 978-1-4799-1775-4, Gwangju/South Korea, 25. mars 2015.
 - ✓ T. Dreibholz, X. Zhou og F. Fu: “[Multi-Path TCP in Real-World Setups – An Evaluation in the NorNet Core Testbed](#)”, i *5th International Workshop on Protocols and Applications with Multi-Homing Support (PAMS)*, side 617–622, DOI [10.1109/WAINA.2015.74](#), ISBN 978-1-4799-1775-4, Gwangju/South Korea, 25. mars 2015.
- 2014**
- ✓ S. Ferlin, T. Dreibholz og Ö. Alay: “[Multi-Path Transport over Heterogeneous Wireless Networks: Does it really pay off?](#)”, i *Proceedings of the IEEE Global Communications Conference (GLOBECOM)*, side 4807–4813, DOI [10.1109/GLOCOM.2014.7037567](#), ISBN 978-1-4799-3512-3, Austin, Texas/U.S.A., 11. desember 2014.

Publikasjoner (fortsettelse)

- ✓ F. Golkar, T. Dreibholz og A. Kvalbein: “[Measuring and Comparing Internet Path Stability in IPv4 and IPv6](#)”, i *Proceedings of the 5th IEEE International Conference on the Network of the Future (NoF)*, side 1–5, DOI [10.1109/NOF.2014.7119767](#), ISBN 978-1-4799-7531-0, Paris/France, 4. desember 2014. **Utmerket med Best Paper Award.**
 - ✓ A. Aziz, D. Hoffstadt, E. P. Rathgeb og T. Dreibholz: “[A Distributed Infrastructure to Analyse SIP Attacks in the Internet](#)”, i *Proceedings of the IFIP Networking Conference*, side 1–9, DOI [10.1109/IFIPNetworking.2014.6857088](#), ISBN 978-3-901882-58-6, Trondheim, Sør-Trøndelag/Norway, 4. juni 2014.
 - ✓ S. Ferlin, T. Dreibholz og Ö. Alay: “[Tackling the Challenge of Bufferbloat in Multi-Path Transport over Heterogeneous Wireless Networks](#)”, i *Proceedings of the IEEE/ACM International Symposium on Quality of Service (IWQoS)*, side 123–128, DOI [10.1109/IWQoS.2014.6914310](#), ISBN 978-1-4799-4852-9, Hong Kong/People’s Republic of China, 26. mai 2014.
 - ✓ H. Adhari, S. Werner, T. Dreibholz og E. P. Rathgeb: “[LEDBAT-MP – On the Application of Lower-than-Best-Effort for Concurrent Multipath Transfer](#)”, i *Proceedings of the 4th International Workshop on Protocols and Applications with Multi-Homing Support (PAMS)*, DOI [10.1109/WAINA.2014.125](#), ISBN 978-1-4799-2652-7, Victoria, British Columbia/Canada, 16. mai 2014.
 - ✓ S. Ferlin, T. Dreibholz, Ö. Alay og A. Kvalbein: “[Measuring the QoS Characteristics of Operational 3G Mobile Broadband Networks](#)”, i *Proceedings of the 4th International Workshop on Protocols and Applications with Multi-Homing Support (PAMS)*, side 753–758, DOI [10.1109/WAINA.2014.123](#), ISBN 978-1-4799-2652-7, Victoria, British Columbia/Canada, 16. mai 2014.
- 2013**
- ✓ M. Becke, T. Dreibholz, A. Bayer, M. Packeiser og E. P. Rathgeb: “[Alternative Transmission Strategies for Multipath Transport of Multimedia Streams over Wireless Networks](#)”, i *Proceedings of the 12th IEEE International Conference on Telecommunications (ConTEL)*, side 147–153, ISBN 978-953-184-175-7, Zagreb, Središnja Hrvatska/Croatia, 26. juni 2013.
 - ✓ T. Dreibholz: “[The NorNet Project: A Research Platform for Robust and Secure Networks](#)”, i *Proceedings of the Essener Workshop zur Netzsicherheit (EWNS)*, Essen, Nordrhein-Westfalen/Germany, 8. april 2013.
 - ✓ T. Dreibholz og E. G. Gran: “[Design and Implementation of the NorNet Core Research Testbed for Multi-Homed Systems](#)”, i *Proceedings of the 3rd International Workshop on Protocols and Applications with Multi-Homing Support (PAMS)*, side 1094–1100, DOI [10.1109/WAINA.2013.71](#), ISBN 978-0-7695-4952-1, Barcelona, Catalonia/Spain, 27. mars 2013.
- 2012**
- ✓ M. Becke, T. Dreibholz, H. Adhari og E. P. Rathgeb: “[On the Fairness of Transport Protocols in a Multi-Path Environment](#)”, i *Proceedings of the IEEE International Conference on Communications (ICC)*, side 2666–2672, DOI [10.1109/ICC.2012.6363695](#), ISBN 978-1-4577-2052-9, Ottawa, Ontario/Canada, 12. juni 2012.
 - ✓ M. Becke, T. Dreibholz, H. Adhari og E. P. Rathgeb: “[A Future Internet Architecture supporting Multipath Communication Networks](#)”, i *Proceedings of the 13th IEEE/IFIP Network Operations and Management Symposium (NOMS)*, side 639–642, DOI [10.1109/NOMS.2012.6211975](#), ISBN 978-1-4673-0268-5, Maui, Hawaii/U.S.A., 19. april 2012.

Publikasjoner (fortsettelse)

2011

- ✓ T. Dreibholz, H. Adhari, M. Becke og E. P. Rathgeb: “[Simulation and Experimental Evaluation of Multipath Congestion Control Strategies](#)”, i *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, 29. mars 2012.
- ✓ T. Dreibholz, M. Becke, H. Adhari og E. P. Rathgeb: “[Evaluation of A New Multipath Congestion Control Scheme using the NetPerfMeter Tool-Chain](#)”, i *Proceedings of the 19th IEEE International Conference on Software, Telecommunications and Computer Networks (SoftCOM)*, side 1–6, ISBN 978-953-290-027-9, Hvar, Dalmacija/Croatia, 16. september 2011.
- ✓ T. Dreibholz, M. Becke, H. Adhari og E. P. Rathgeb: “[On the Impact of Congestion Control for Concurrent Multipath Transfer on the Transport Layer](#)”, i *Proceedings of the 11th IEEE International Conference on Telecommunications (ConTEL)*, side 397–404, ISBN 978-953-184-152-8, Graz, Steiermark/Austria, 16. juni 2011.
- ✓ T. Dreibholz: “[Server-Redundanz und Lastverteilung einfach in eigene Anwendungen integrieren – mit Reliable Server Pooling und RSPLIB](#)”, i *Proceedings of the LinuxTag*, Berlin/Germany, 12. mai 2011.
- ✓ H. Adhari, T. Dreibholz, M. Becke, E. P. Rathgeb og M. Tüxen: “[Evaluation of Concurrent Multipath Transfer over Dissimilar Paths](#)”, i *Proceedings of the 1st International Workshop on Protocols and Applications with Multi-Homing Support (PAMS)*, side 708–714, DOI [10.1109/WAINA.2011.92](#), ISBN 978-0-7695-4338-3, Singapore, 22. mars 2011.
- ✓ M. Becke, T. Dreibholz, E. P. Rathgeb og J. Formann: “[Link Emulation on the Data Link Layer in a Linux-based Future Internet Testbed Environment](#)”, i *Proceedings of the 10th International Conference on Networks (ICN)*, side 92–98, ISBN 978-1-61208-002-4, St. Maarten/Netherlands Antilles, 25. januar 2011.

2010

- ✓ T. Dreibholz, M. Becke, E. P. Rathgeb og M. Tüxen: “[On the Use of Concurrent Multipath Transfer over Asymmetric Paths](#)”, i *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., 7. desember 2010.
- ✓ T. Dreibholz, R. Seggelmann, M. Tüxen og E. P. Rathgeb: “[Transmission Scheduling Optimizations for Concurrent Multipath Transfer](#)”, i *Proceedings of the 8th International Workshop on Protocols for Future, Large-Scale and Diverse Network Transports (PFLDNeT)*, bind 8, ISSN 2074-5168, Lancaster, Pennsylvania/U.S.A., 29. november 2010.
- ✓ T. Dreibholz, M. Becke, C. Henke og E. P. Rathgeb: “[An Approach for Transferring an End-to-End Transport Service into a Functional Building Block Structure](#)”, i *Proceedings of the 5th GI/ITG KuVS Workshop on the Future Internet*, Stuttgart, Baden-Württemberg/Germany, 9. juni 2010.
- ✓ X. Zhou, T. Dreibholz, M. Becke, J. Pulinthanath, E. P. Rathgeb og W. Du: “[The Software Modeling and Implementation of Reliable Server Pooling and RSPLIB](#)”, i *Proceedings of the 8th ACIS Conference on Software Engineering Research, Management and Applications (SERA)*, side 129–136, DOI [10.1109/SERA.2010.26](#), ISBN 978-0-7695-4075-7, Montréal, Québec/Canada, 24. mai 2010.

Publikasjoner (fortsettelse)

✓ T. Dreibholz, M. Becke, J. Pulinthanath og E. P. Rathgeb: “[Applying TCP-Friendly Congestion Control to Concurrent Multipath Transfer](#)”, i *Proceedings of the 24th IEEE International Conference on Advanced Information Networking and Applications (AINA)*, side 312–319, DOI [10.1109/AINA.2010.117](#), ISBN 978-0-7695-4018-4, Perth, Western Australia/Australia, 21. april 2010.

✓ T. Dreibholz, M. Becke, J. Pulinthanath og E. P. Rathgeb: “[Implementation and Evaluation of Concurrent Multipath Transfer for SCTP in the INET Framework](#)”, i *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, 19. mars 2010.

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✓ T. Dreibholz, X. Zhou, E. P. Rathgeb og W. Du: “[A PlanetLab-Based Performance Analysis of RSerPool Security Mechanisms](#)”, i *Proceedings of the 10th IEEE International Conference on Telecommunications (ConTEL)*, side 213–220, ISBN 978-953-184-131-3, Zagreb, Središnja Hrvatska/Croatia, 8. juni 2009.

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 - ✓ T. Dreibholz: “[An Experiment Tutorial for the NorNet Core Testbed](#)”, i *Proceedings of the 2nd International NorNet Users Workshop (NNUW-2)*, Fornebu, Akershus/Norway, 29. august 2014.
 - ✓ Ö. Alay, S. Ferlin og T. Dreibholz: “[Multipath Transport over Heterogeneous Networks](#)”, i *Proceedings of the 2nd International NorNet Users Workshop (NNUW-2)*, Fornebu, Akershus/Norway, 29. august 2014.

Publikasjoner (fortsettelse)

- ✓ T. Dreibholz: “[The NorNet Core Testbed – Introduction and Status in August 2014](#)”, i *Proceedings of the 2nd International NorNet Users Workshop (NNUW-2)*, Fornebu, Akershus/Norway, 28. august 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, 12. mai 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., 8. mai 2014.
- ✓ 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., 5. mai 2014.
- ✓ T. Dreibholz: “[On the Applicability of Reliable Server Pooling for Virtualised Network Function Resource Pooling](#)”, i *Proceedings of the 89th IETF Meeting*, London/United Kingdom, 4. mars 2014.
- ✓ T. Dreibholz: “[The Status of MPTCP Deployment and Evaluation in the NorNet Testbed](#)”, i *Proceedings of the 89th IETF Meeting*, London/United Kingdom, 3. mars 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, 30. januar 2014.
- ✓ T. Dreibholz: “[The NorNet Core Testbed – An Experiment Tutorial](#)”, i *Proceedings of the 1st International NorNet Users Workshop (NNUW-1)*, Fornebu, Akershus/Norway, 19. september 2013.
- ✓ T. Dreibholz: “[The NorNet Core Testbed – Introduction and Status](#)”, i *Proceedings of the 1st International NorNet Users Workshop (NNUW-1)*, Fornebu, Akershus/Norway, 18. september 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, 1. august 2013.
- ✓ T. Dreibholz: “[The NorNet Testbed: A Platform for Evaluating Multi-Path Transport in the Real-World Internet](#)”, i *Proceedings of the 87th IETF Meeting*, Berlin/Germany, 30. juli 2013.
- ✓ T. Dreibholz og S. Ferlin: “[The NorNet Research Testbed](#)”, Talk, i *Proceedings of the CHANGE Bootcamp Workshop*, Louvain-la-Neuve/Belgium, 17. juli 2013.
- ✓ T. Dreibholz: “[An Overview of the NorNet Testbed for Multi-Homed Systems](#)”, Invited Talk at Høgskolen i Oslo og Akershus (HiOA), Oslo/Norway, 18. april 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, 12. april 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, 12. mars 2013.

2013

Publikasjoner (fortsettelse)

- ✓ T. Dreibholz: “[An Overview of NorNet Core](#)”, Invited Talk at the Geilo Seminar of the Simula Research Laboratory, Network Systems Group, Geilo, Buskerud/Norway, 9. mars 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, 27. november 2012.
 - ✓ T. Dreibholz: “[The NorNet Project – A Research Testbed for Multi-Homed Systems](#)”, Invited Talk at Karlstads Universitet, Karlstad, Värmland/Sweden, 2. november 2012.
 - ✓ H. Adhari, M. Becke og T. Dreibholz: “[On the Fairness of Transport Protocols in a Multi-Path Environment](#)”, i *Proceedings of the 83rd IETF Meeting*, Paris/France, 27. mars 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](#), 13. mars 2012.
- 2011
 - ✓ T. Dreibholz: “[Multipath-Transfer mit dem Stream Control Transmission Protocol](#)”, Invited Talk at Technische Universität Darmstadt, Multimedia Communications Lab, Darmstadt, Hessen/Germany, 16. november 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, 4. august 2010.
- 2008
 - ✓ T. Dreibholz og 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, 26. september 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, 2. desember 2007.
 - ✓ T. Dreibholz: “[Hochverfügbarkeit mit Reliable Server Pooling](#)”, i *Proceedings of the Linuxtage in Essen*, Essen, Nordrhein-Westfalen/Germany, 10. november 2007.
- 2006
 - ✓ T. Dreibholz: “[RSPLIB – Eine Open Source Implementation von Reliable Server Pooling](#)”, i *Proceedings of the Linuxtage in Essen*, Essen, Nordrhein-Westfalen/Germany, 9. september 2006.
- 2005
 - ✓ T. Dreibholz: “[draft-ietf-rserpool-mib-01.txt – Management Information Base Definition for Reliable Server Pooling](#)”, i *Proceedings of the 63rd IETF Meeting*, Paris/France, 1. august 2005.
- 2004
 - ✓ T. Dreibholz: “[draft-ietf-rserpool-policies-00.txt – Definition of Member Selection Policies](#)”, i *Proceedings of the 61st IETF Meeting*, Washington, DC/U.S.A., 8. november 2004.
 - ✓ T. Dreibholz: “[Member Selection Policies for the Reliable Server Pooling Protocol Suite](#)”, i *Proceedings of the 60th IETF Meeting*, San Diego, California/U.S.A., 5. august 2004.

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- ✓ T. Dreibholz: “[Policy Management in the Reliable Server Pooling Architecture](#)”, i *Proceedings of the Multi-Service Networks Conference (MSN, Coseners)*, Abingdon, Oxfordshire/United Kingdom, 8. juli 2004.

IETF RFCs

- 2009 ✓ T. Dreibholz and J. Mulik: “[Reliable Server Pooling MIB Module Definition](#)”, RFC 5525, IETF, DOI [10.17487/RFC5525](#), ISSN 2070-1721, 22. april 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](#), ISSN 2070-1721, 30. september 2008.
- ✓ T. Dreibholz and M. Tüxen: “[Reliable Server Pooling Policies](#)”, RFC 5356, IETF, DOI [10.17487/RFC5356](#), ISSN 2070-1721, 30. september 2008.

IETF Internet-Drafts

- 2020 ✓ T. Dreibholz: “[An IPv4 Flowlabel Option](#)”, Internet Draft draft-dreibholz-ipv4-flowlabel-32, IETF, Individual Submission, 9. september 2020.
- ✓ T. Dreibholz: “[Applicability of Reliable Server Pooling for Real-Time Distributed Computing](#)”, Internet Draft draft-dreibholz-rserpool-applic-distcomp-29, IETF, Individual Submission, 9. september 2020.
- ✓ T. Dreibholz and J. Pulinthanath: “[Applicability of Reliable Server Pooling for SCTP-Based Endpoint Mobility](#)”, Internet Draft draft-dreibholz-rserpool-applic-mobility-28, IETF, Individual Submission, 9. september 2020.
- ✓ 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-26, IETF, Individual Submission, 9. september 2020.
- ✓ T. Dreibholz: “[Handle Resolution Option for ASAP](#)”, Internet Draft draft-dreibholz-rserpool-asap-hropt-27, IETF, Individual Submission, 9. september 2020.
- ✓ T. Dreibholz: “[Ideas for a Next Generation of the Reliable Server Pooling Framework](#)”, Internet Draft draft-dreibholz-rserpool-nextgen-ideas-14, IETF, Individual Submission, 9. september 2020.
- ✓ T. Dreibholz: “[Ideas for a Next Generation of the Stream Control Transmission Protocol \(SCTP\)](#)”, Internet Draft draft-dreibholz-tsvwg-sctp-nextgen-ideas-12, IETF, Individual Submission, 9. september 2020.
- ✓ T. Dreibholz and M. Tüxen: “[Reliable Server Pooling \(RSerPool\) Bakeoff Scoring](#)”, Internet Draft draft-dreibholz-rserpool-score-27, IETF, Individual Submission, 9. september 2020.
- ✓ T. Dreibholz, M. Becke and H. Adhari: “[SCTP Socket API Extensions for Concurrent Multipath Transfer](#)”, Internet Draft draft-dreibholz-tsvwg-sctpsocket-multipath-21, IETF, Individual Submission, 9. september 2020.
- ✓ C. Hohendorf, E. Unurkhaan and T. Dreibholz: “[Secure SCTP](#)”, Internet Draft draft-hohendorf-secure-sctp-30, IETF, Individual Submission, 9. september 2020.

Publikasjoner (fortsettelse)

- ✓ T. Dreibholz, R. Seggelmann and M. Becke: “[Sender Queue Info Option for the SCTP Socket API](#)”, Internet Draft draft-dreibholz-tsvwg-sctpsocket-sqinfo-21, IETF, Individual Submission, 9. september 2020.
 - ✓ T. Dreibholz and X. Zhou: “[Takeover Suggestion Flag for the ENRP Handle Update Message](#)”, Internet Draft draft-dreibholz-rserpool-enrp-takeover-24, IETF, Individual Submission, 9. september 2020.
 - ✓ P. D. Amer, 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-20, IETF, Individual Submission, 28. juli 2020.
 - ✓ T. Dreibholz: “[NEAT Sockets API](#)”, Internet Draft draft-dreibholz-taps-neat-socketapi-07, IETF, Individual Submission, 28. juli 2020.
- 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, 3. desember 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, 11. september 2019.
- 2018**
- ✓ T. Dreibholz, L. Coene and P. T. Conrad: “[Reliable Server Pooling Applicability for IP Flow Information Exchange](#)”, Internet Draft draft-coene-rserpool-applic-ipfix-19, IETF, Individual Submission, 5. mars 2018.
- 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, 17. oktober 2005.

Tekniske kompetanser

Operativsystemer

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

Programmeringsspråk

- ✓ Assembler (Intel x86 siden 1992, Motorola 680x0 siden 1989)
- ✓ Basic (siden 1989)
- ✓ Bash (siden 1994)
- ✓ **C (siden 1989)**
- ✓ **C++ (siden 1993)**
- ✓ HTML (siden 1996)
- ✓ Java (siden 1997)
- ✓ JavaScript (siden 2003)
- ✓ Python (siden 2012)
- ✓ R (siden 2004)
- ✓ SQL (PostgreSQL, MySQL, Oracle; siden 2000)

Programvare erfaringer

- ✓ AmigaOS system programmering (siden 1988)
- ✓ Concurrent Versions System (CVS, siden 2001)
- ✓ Git (siden 2012)

Tekniske kompetanser (fortsettelse)

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

Netverksteknologier

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