

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	✓ thomas.dreibholz@gmail.com https://www.mntb.no/~dreibh
OpenPGP-nøkkel	✓ 21412672518D8B2D1862EFEF5CD5D12AA0877B49 (https://www.mntb.no/~dreibh/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:
 - **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

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.mntb.no/~dreibh/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.mntb.no/~dreibh/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.mntb.no/~dreibh/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

- 2023** ✓ M. Fida, A. H. M. Ahmed, T. Dreibholz, A. F. Ocampo, A. M. Elmokashfi og F. I. Michelinakis: “[Bottleneck Identification in Cloudified Mobile Networks based on Distributed Telemetry](#)”, i *Transactions on Mobile Computing*, side 1–18, IEEE, DOI [10.1109/TMC.2023.3312051](#), ISSN 1558-0660, 5. september 2023.
- ✓ T. Dreibholz og S. Mazumdar: “[Towards a Lightweight Task Scheduling Framework for Cloud and Edge Platform](#)”, i *Internet of Things*, bind 21, Elsevier, DOI [10.1016/j.iot.2022.100651](#), ISSN 2542-6605, april 2023.

Publikasjoner (fortsettelse)

- 2022**
- ✓ S. Mazumdar og T. Dreibholz: “[Secure Embedded Living: Towards a Self-contained User Data Preserving Framework](#)”, i *IEEE Communications Magazine*, bind 60, side 74–80, DOI [10.1109/MCOM.001.2200165](#), ISSN 0163-6804, 11. november 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 og V. Theodorou: “[AI Anomaly Detection for Cloudified Mobile Core Architectures](#)”, i *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., 31. august 2022.
- 2021**
- ✓ M. Chen, M. W. Raza, T. Dreibholz, X. Zhou og Y. Tan: “[A Multi-Parameter Comprehensive Optimized Algorithm for MPTCP Networks](#)”, i *Electronics*, bind 10, nummer 16, side 1–19, MDPI, DOI [10.3390/electronics10161942](#), ISSN 2079-9292, Basel/Switzerland, 12. august 2021.
- 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.
- 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 (IJIIDS)*, bind 4, nummer 6, side 552–578, DOI [10.1504/IJIIDS.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.

Publikasjoner (fortsettelse)

- 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

- 2024 ✓ J. M. Evang og T. Dreibholz: “[Optimizing Network Latency: Unveiling the Impact of Reflection Server Tuning](#)”, i *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, 18. april 2024.
- 2023 ✓ S. Bjørnstad, J. Ali og T. Dreibholz: “[Detecting Physical Impacts by Monitoring State of Polarisation in a Live Fibre-To-The-Home Data-Communication Air-Cable](#)”, i *Proceedings of the 28th International Conference on Optical Fiber Sensors (OFS)*, Hamamatsu, Shizuoka/Japan, 21. november 2023.
- ✓ F. Fu, G. Lu, J. Huang og T. Dreibholz: “[A Survey of Blockchain-Based Identity Anonymity Research](#)”, i *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, 4. november 2023.
- ✓ J. Zhang, X. Zhang, Z. Liu, F. Fu, J. Nie, J. Huang og T. Dreibholz: “[A Survey of Security Vulnerabilities and Detection Methods for Smart Contracts](#)”, i *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, 4. november 2023.
- ✓ T. Dreibholz: “[High-Precision Round-Trip Time Measurements in the Internet with HiPerConTracer](#)”, i *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, 22. september 2023.
- ✓ S. Mazumdar og T. Dreibholz: “[Towards A Data Privacy-Aware Execution Zone Creation on Cloud/Fog Platform](#)”, i *Proceedings of the 49th Euromicro Conference Series on Software Engineering and Advanced Applications (SEAA)*, side 140–149, DOI [10.1109/SEAA60479.2023.00030](#), ISBN 979-8-3503-4235-2, Durrës/Albania, 8. september 2023.
- ✓ T. Dreibholz, S. Bjørnstad og J. Ali: “[A Scalable Infrastructure for Continuous State of Polarisation Monitoring for Revealing Security and Vulnerability Impacts in Optical Networks](#)”, i *Proceedings of the 17th International Conference on Telecommunications (ConTEL)*, side 1–8, DOI [10.1109/ConTEL58387.2023.10198969](#), ISBN 979-8-3503-0223-3, Graz, Steiermark/Austria, 11. juli 2023.
- ✓ S. Mazumdar og T. Dreibholz: “[Proactive Resource Orchestration Framework for Cloud/Fog Platform](#)”, i *Proceedings of the 28th IEEE Symposium on Computers and Communications (ISCC)*, side 259–265, DOI [10.1109/ISCC58397.2023.10218068](#), ISBN 979-8-3503-0048-2, Gammarth, Tunis/Tunisia, 10. juli 2023.

Publikasjoner (fortsettelse)

2022

- ✓ S. Bjørnstad, J. Ali, T. Dreibholz og E. Sæthre: “A Scalable Data Collection System for Continuous State of Polarisation Monitoring”, i *Proceedings of the 23rd International Conference on Transparent Optical Networks (ICTON)*, side 1–4, DOI [10.1109/ICTON59386.2023.10207183](https://doi.org/10.1109/ICTON59386.2023.10207183), ISBN 979-8-3503-0303-2, Bucharest/Romania, 3. juli 2023.
- ✓ S. Mazumdar og T. Dreibholz: “Towards a Privacy Preserving Data Flow Control via Packet Header Marking”, i *Proceedings of the 24th IEEE International Conference on High Performance Computing, Data, and Analytics (HPCC)*, side 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, 18. desember 2022.
- ✓ S. Mazumdar og T. Dreibholz: “Towards a Blockchain and Fog-Based Proactive Data Distribution Framework for ICN”, i *Proceedings of the International Conference on Parallel and Distributed Computing, Applications and Technologies (PD-CAT)*, side 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, 7. desember 2022.
- ✓ T. Dreibholz og S. Mazumdar: “Find Out: How Do Your Data Packets Travel?”, i *Proceedings of the 18th IEEE International Conference on Network and Service Management (CNSM)*, side 359–363, DOI [10.23919/CNSM55787.2022.9965091](https://doi.org/10.23919/CNSM55787.2022.9965091), ISBN 978-3-903176-51-5, Thessaloniki, Greece, 1. november 2022.
- ✓ T. Dreibholz, M. Fida, A. H. M. Ahmed, A. F. Ocampo og F. I. Michelinakis: “A Live Demonstration of In-Band Telemetry in OSM-Orchestrated Core Networks”, i *Proceedings of the 47th IEEE Conference on Local Computer Networks (LCN)*, side 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, 28. september 2022.
- ✓ A. Arouna, S. Bjørnstad, S. J. Ryan, T. Dreibholz, S. Rind og A. M. Elmokashfi: “Network Path Integrity Verification using Deterministic Delay Measurements”, i *Proceedings of the 6th IEEE/IFIP Network Traffic Measurement and Analysis Conference (TMA)*, ISBN 978-3-903176-47-8, Enschede, Overijssel/Netherlands, 29. juni 2022.
- ✓ T. Dreibholz og S. Mazumdar: “Load Distribution for Mobile Edge Computing with Reliable Server Pooling”, i *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)*, side 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, 15. april 2022.

2021

- ✓ M. Xie, T. Dreibholz, F. I. Michelinakis, J. Pujol-Roig, W. Y. Poe, A. M. Elmokashfi, S. Majumdar og S. Malacarne: “An Exposed Closed-Loop Model for Customer-Driven Service Assurance Automation”, i *Proceedings of the 30th IEEE European Conference on Networks and Communications (EuCNC)*, side 419–424, DOI [10.1109/EuCNC/6GSummit51104.2021.9482533](https://doi.org/10.1109/EuCNC/6GSummit51104.2021.9482533), ISBN 978-1-6654-1526-2, Porto/Portugal, 9. juni 2021.
- ✓ T. Dreibholz og S. Mazumdar: “Reliable Server Pooling Based Workload Offloading with Mobile Edge Computing: A Proof-of-Concept”, i *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)*, bind 3, side 582–593, DOI [10.1007/978-3-030-75078-7_58](https://doi.org/10.1007/978-3-030-75078-7_58), ISBN 978-3-030-75078-7, Toronto, Ontario/Canada, 14. mai 2021.

Publikasjoner (fortsettelse)

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)*, side 134–143, DOI [10.1109/LCN48667.2020.9314778](#), ISBN 978-1-7281-7158-6, 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)*, side 1–6, 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.
- ✓ 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)*, side 418–423, 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. I. 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)*, side 265–270, 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.

Publikasjoner (fortsettelse)

- ✓ 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.
- 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 Nor-Net 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.**
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- ✓ 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-tuexen-tsvwg-sctp-multipath-27, IETF, Individual Submission, 1. mars 2024.
- ✓ T. Dreibholz: “[NEAT Sockets API](#)”, Internet Draft draft-dreibholz-taps-neat-socketapi-14, IETF, Individual Submission, 1. mars 2024.

Publikasjoner (fortsettelse)

- 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, 25. mars 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, 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.
- 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)
- ✓ 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)
- ✓ \LaTeX 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)

Tekniske kompetanser (fortsettelse)

- ✓ VirtualBox (siden 2012)
- ✓ Wireshark (siden 2001)

Nettverksteknologier

- ✓ 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)