



## Publications

2021

### Artikel in Kongressband

**Hausheer, David; Perrig, Adrian**

*Proposal for a SCION Working Group*

*In: RIPE82 - Amsterdam: RIPE Network Coordination Centre . - 2021, insges. 9 S.*

[> Publikationslink](#)

**Hausheer, David**

*SCION - a novel internet architecture*

*In: RIPE82 - Amsterdam: RIPE Network Coordination Centre . - 2021*

[> Publikationslink](#)

### Begutachteter Zeitschriftenartikel

**Krüger, Thorben; Hausheer, David**

*Early Work - path selection in a path-aware network architecture*

*In: Electronic communications of the EASST - Berlin: Techn. Univ., Bd. 80 (2021), insges. 6 S.*

[> Publikationslink](#)

**Schulz, Lars-Christian; Hausheer, David**

*Towards SCION-enabled IXPs - the SCION peering coordinator*

*In: Electronic communications of the EASST - Berlin: Techn. Univ., Bd. 80 (2021), insges. 5 S.*

[> Publikationslink](#)

### Buchbeitrag

**Krähenbühl, Cyrill; Tabaeiaghdaei, Seyedali; Gloor, Christelle; Kwon, Jonghoon; Perrig, Adrian; Hausheer, David; Roos, Dominik**

*Deployment and scalability of an inter-domain multi-path routing infrastructure*

*In: Konferenz: 17th International Conference on emerging Networking EXperiments and Technologies, CoNEXT'21, virtual, 7-10 December 2021, Proceedings of the 17th International Conference on emerging Networking EXperiments and Technologies - New York, NY, United States: Association for Computing Machinery . - 2021, S. 126-140*

[> Publikationslink](#)

**John, Tony; De Vaere, Piet; Schutijser, Caspar; Perrig, Adrian; Hausheer, David**

*Linc: low-cost inter-domain connectivity for industrial systems*

*In: Proceedings of the SIGCOMM '21 Poster and Demo Sessions/ Chiesa - New York, NY, United States: Association for Computing Machinery; Chiesa, Marco . - 2021, S. 68-70*

[> Publikationslink](#)

**John, Tony; Hausheer, David**

*S3MP - a SCION based secure smart metering platform*

*In: Proceedings of the IM 2021 - 2021 IFIP/IEEE International Symposium on Integrated Network Management/ IFIP/IEEE International Symposium on Integrated Network Management - [Piscataway, NJ]: IEEE . - 2021, S.*

**Gärtner, Kilian; Kwon, Jonghoon; Hausheer, David***SpeedCam - towards efficient flow monitoring for multipath communication**In:* Proceedings of the IM 2021 - 2021 IFIP/IEEE International Symposium on Integrated Network Management/ IFIP/IEEE International Symposium on Integrated Network Management - [Piscataway, NJ]: IEEE . - 2021, S. 860-865[› Publikationslink](#)**Krüger, Thorben; Hausheer, David***Towards an API for the path-aware internet**In:* Proceedings of the ACM SIGCOMM 2021 Workshop on Network-Application Integration - New York, NY, United States: Association for Computing Machinery . - 2021, S. 68-72[› Publikationslink](#)**2020****Abstract****Hausheer, David***SCION implementation and SCIONLab testbed**In:* ACM SIGCOMM 2020 Tutorial on SCION, a Next-Generation Secure Internet Architecture - SIGCOMM, 2020 . - 2020, S. 56-72[› Publikationslink](#)**Hausheer, David; Perrig, Adrian***Secure networks for IoT devices**In:* RIPE80: virtual, 12-14 May 2020 - RIPE, 2020 . - 2020, insges. 8 S.[› Publikationslink](#)**Hausheer, David; Reijs, Victor; Perrig, Adrian***The role of RIRs and LIRs in SCION**In:* RIPE81: virtual, 27-20 Oct. 2020 : presentation archive - RIPE, 2020 . - 2020, insges. 18 S.[› Publikationslink](#)**Buchbeitrag****Kwon, Jonghoon; García-Pardo, Juan A.; Legner, Markus; Wirz, François; Frei, Matthias; Hausheer, David; Perrig, Adrian***SCIONLAB - a next-generation internet testbed**In:* The 28th IEEE International Conference on Network Protocols (ICNP): October 13-16, 2020, Madrid, Spain - Piscataway, NJ: IEEE, 2020 . - 2020, insges. 12 S.[› Publikationslink](#)**Nicht begutachteter Zeitschriftenartikel****Hausheer, David***Internet Testbed der nächsten Generation SCIONLab jetzt mit DFN-GVS**In:* DFN-Mitteilungen - [Berlin]: Verein, Bd. 97.2020, S. 31-35[› Publikationslink](#)**2019****Abstract**

**Hausheer, David; Hohlfeld, Oliver; Zinner, Thomas**

*Chairs Welcome: Workshop on Software-Defined Networking and NetworkFunction Virtualization for Flexible Network Management (SDNFlex)*

*In: Proceedings of the 2019 International Conference on Networked Systems: NetSys 2019 : NetSys 2019, 18-21 March 2019, Garching b. München/ NetSys - [Piscataway, NJ]: IEEE, 2019 . - 2019, S. 6-7*

[> Publikationslink](#)

**Hausheer, David**

*Secure smart home - IoT use case and beyond*

*In: Scion Day - Network Security Group, ETH Zürich, 2019 . - 2019, insges. 11 S.*

[> Publikationslink](#)

**2018**

### Abstract

**Hausheer, David; El Biad, Youssef; Baumann, Kurt; Perrig, Adrian**

*SCION project testbed trials*

*In: 4th GTS Workshop - GÉANT Testbeds Service, 2018 . - 2018, insges. 32 S.*

[> Publikationslink](#)

**Baumann, Kurt; Gall, Alex; Hausheer, David; Perrig, Adrian; Smith, Matthew**

*SCIONLab - a deployment of the SCION secure internet architecture*

*In: TNC18 - Intelligent networks, cool edges? - GÉANT Amsterdam Office, 2018 . - 2018, insges. 26 S.*

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### Begutachteter Zeitschriftenartikel

**Hausheer, David; Hohlfeld, Oliver; Schmid, Stefan; Gu, Guofei**

*Security and performance of software-defined networks and functions virtualization*

*In: Computer networks: the international journal of computer and telecommunications networking - Amsterdam [u.a.]: Elsevier, Bd. 138.2018, S. 15-17*

[> Publikationslink](#)

### Buchbeitrag

**Koch, Christian; Pfannmüller, Johannes; Rizk, Amr; Hausheer, David; Steinmetz, Ralf**

*Category-aware hierarchical caching for video-on-demand content on youtube*

*In: Proceedings of the 9th ACM Multimedia Systems Conference (MMSys'18): Amsterdam, The Netherlands, June 12-15, 2018/ Multimedia Systems Conference - New York, New York: The Association for Computing Machinery, 2018; Cesar, Pablo . - 2018*

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**Kaup, Fabian; Hacker, Stefan; Mentzendorff, Eike; Meurisch, Christian; Hausheer, David**

*Energy models for NFV and service provisioning on fog nodes*

*In: Cognitive management in a cyber world: IEEE/IFIP Network Operations and Management Symposium : 23-27 April 2018, Taipei, Taiwan - Piscataway, NJ: IEEE, insges. 7 S.*

[> Publikationslink](#)

**Nobach, Leonhard; Blendin, Jeremias; Kolbe, Hans-Jorg; Schyguda, Georg; Hausheer, David**

*RTP packet loss healing on a bare-metal switch*

*In: Cognitive management in a cyber world: IEEE/IFIP Network Operations and Management Symposium : 23-27 April 2018, Taipei, Taiwan/ IEEE/IFIP Network Operations and Management Symposium - Piscataway, NJ: IEEE, 2018; IEEE/IFIP Network Operations and Management Symposium (16.:2018) . - 2018*

[› Publikationslink](#)

**Koch, Christian; Lins, Benedikt; Rizk, Amr; Steinmetz, Ralf; Hausheer, David**

*vFetch: Video prefetching using pseudo subscriptions and user channel affinity in YouTube*

In: 2017 13th International Conference on Network and Service Management (CNSM): 26-30 Nov. 2017 - Piscataway, NJ: IEEE, insges. 6 S., 2018

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### Nicht begutachteter Zeitschriftenartikel

**Kaup, Fabian; Hacker, Stefan; Mentzendorff, Eike; Meurisch, Christian; Hausheer, David**

*The progress of the energy-efficiency of single-board computers*

In: Magdeburg: Otto-von-Guericke-University Magdeburg: Networks and Distributed Systems Lab, 2018, 1  
Online-Ressource - (NetSys Technical Report; No NetSys-TR-2018-01)

[› Publikationslink](#)

2017

### Begutachteter Zeitschriftenartikel

**Zhu, Xiaoqing; Koumaras, Harilaos; Wang, Mea; Hausheer, David**

*Network function virtualization and software-defined networking - advancing multimedia distribution*

In: IEEE multiMedia - Los Alamitos, Calif: IEEE Computer Soc, Bd. 24.2017, 3, S. 16-18

[› Publikationslink](#)

**Rückert, Julius; Wulfheide, Julian; Knierim, Tamara; Hausheer, David**

*On clubs, screaming peers, and duplicates - a comprehensive study of BitTorrent Live*

In: Computer networks: the international journal of computer and telecommunications networking - Amsterdam [u.a.]: Elsevier, Bd. 119.2017, S. 35-55

[› Publikationslink](#)

**Nobach, Leonhard; Rimac, Ivica; Hilt, Volker; Hausheer, David**

*Statelet-based efficient and seamless NFV state transfer*

In: IEEE transactions on network and service management: TNSM - New York, NY, 2017

[› Publikationslink](#)

**Zhu, Xiaoqing; Koumaras, Harilaos; Wang, Mea; Hausheer, David**

*The future of multimedia distribution - an interview with Baochun Li, Diego R. Lopez, and Christian Timmerer*

In: IEEE multiMedia - Los Alamitos, Calif: IEEE Computer Soc, Bd. 24.2017, 3, S. 48-53

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### Buchbeitrag

**Rodrigues, Bruno; Bocek, Thomas; Lareida, Andri; Hausheer, David; Rafati, Sina; Stiller, Burkhard**

*A blockchain-based architecture for collaborative DDoS mitigation with smart contracts*

In: Security of Networks and Services in an All-Connected World - Cham: Springer, 2017 . - 2017, S. 16-29 - (Lecture Notes in Computer Science; 10356)

[› Publikationslink](#)

**Uniyal, N.; Kutscher, D.; Seedorf, J.; Blendin, J.; Hausheer, D.**

*Adaptive ICN multipath forwarding for hybrid access*

In: 2017 International Conference on Networked Systems, NetSys 2017, 2017, 10.1109/NetSys.2017.7903944

**Nobach, Leonhard; Blendin, Jeremias; Kolbe, Hans-Jörg; Schyguda, Georg; Hausheer, David**

*Bare-metal switches and their customization and usability in a carrier-grade environment*

*In:* 2017 IEEE 42nd Conference on Local Computer Networks: LCN 2017 : proceedings : 9-12 October 2017, Singapore/ IEEE Conference on Local Computer Networks - Piscataway, NJ: IEEE, 2017; Tölle, Jens . - 2017

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**Nobach, L.; Rudolph, B.; Hausheer, D.**

*Benefits of conditional FPGA provisioning for virtualized network functions*

*In:* 2017 International Conference on Networked Systems, NetSys 2017, 2017, 10.1109/NetSys.2017.7903967

**Blendin, J.; Herrmann, D.; Wichtlhuber, M.; Gunkel, M.; Wissel, F.; Hausheer, D.**

*Enabling efficient multi-layer repair in elastic optical networks by gradually superimposing SDN*

*In:* 2016 12th International Conference on Network and Service Management, CNSM 2016 and Workshops, 3rd International Workshop on Management of SDN and NFV, ManSDN/NFV 2016, and International Workshop on Green ICT and Smart Networking, GISN 2016, 2017, S. 118-126, 10.1109/CNSM.2016.7818407

**Kaup, F.; Fischer, F.; Hausheer, D.**

*Measuring and predicting cellular network quality on trains*

*In:* 2017 International Conference on Networked Systems, NetSys 2017, 2017, 10.1109/NetSys.2017.7903960

**Koch, Christian; Krupii, Ganna; Hausheer, David**

*Proactive caching of music videos based on audio features, mood, and genre*

*In:* Proceedings of the 8th ACM Multimedia Systems Conference, MMSys'17: Taipei, Taiwan, June 20 - 23, 2017 - New York, NY: ACM, S. 100-111

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**Wichtlhuber, Matthias; Kessler, Jan; Bücker, Sebastian; Poese, Ingmar; Blendin, Jeremias; Koch, Christian; Hausheer, David**

*SoDA: Enabling CDN-ISP collaboration with software defined anycast*

*In:* 2017 IFIP Networking Conference (IFIP Networking) and workshops: 12-16 June 2017/ IFIP Networking - [Piscataway, NJ]: IEEE, 2017; IFIP Networking (16.:2017) . - 2017

[>Publikationslink](#)

**Wulfheide, Julian; Rückert, Julius; Hausheer, David**

*Stop screaming at me - avoiding duplicates in mesh/push-based live video streaming*

*In:* 2017 IEEE 42nd Conference on Local Computer Networks: LCN 2017 : proceedings : 9-12 October 2017, Singapore/ IEEE Conference on Local Computer Networks - Piscataway, NJ: IEEE, 2017; Tölle, Jens . - 2017

[>Publikationslink](#)

**Koch, Christian; Hacker, Stefan; Hausheer, David**

*VoDCast - efficient SDN-based multicast for video on demand*

*In:* 18th IEEE International Symposium on a World of Wireless, Mobile, and Multimedia Networks (WoWMoM 2017): June 12-15, 2017, Macao Polytechnic Institute - Piscataway, NJ: IEEE, insges. 6 S.

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**2016**

### Begutachteter Zeitschriftenartikel

**Kaup, F.; Michelinakis, F.; Bui, N.; Widmer, J.; Wac, K.; Hausheer, D.**

*Assessing the implications of cellular network performance on mobile content access*

*In:* IEEE Transactions on Network and Service Management, Vol. 13, 2016, Issue 2, S. 168-180, 10.1109/TNSM.2016.2544402

**Rückert, J.; Blendin, J.; Hark, R.; Hausheer, D.**

*Flexible, Efficient, and Scalable Software-Defined Over-the-Top Multicast for ISP Environments With DynSdm*  
In: IEEE Transactions on Network and Service Management, Vol. 13, 2016, Issue 4, S. 754-767,  
10.1109/TNSM.2016.2607281

## Buchbeitrag

**Wichtlhuber, M.; Aleksandrov, N.; Franz, M.; Hinz, O.; Hausheer, D.**

*Are incentive schemes needed for WebRTC based distributed streaming? A crowdsourced study on the relation of user motivation and quality of experience*

In: Proceedings of the 7th International Conference on Multimedia Systems, MMSys 2016, 2016, S. 197-208,  
10.1145/2910017.2910598

**Michelinakis, F.; Bui, N.; Fioravanti, G.; Widmer, J.; Kaup, F.; Hausheer, D.**

*Lightweight capacity measurements for mobile networks*

In: Computer Communications, Vol. 84, 2016, S. 73-83, 10.1016/j.comcom.2016.02.005

**Wichtlhuber, M.; Bücker, S.; Kluge, R.; Mousavi, M.; Hausheer, D.**

*Of Strategies and Structures: Motif-Based Fingerprinting Analysis of Online Reputation Networks*

In: Proceedings - Conference on Local Computer Networks, LCN, 2016, S. 469-476, 10.1109/LCN.2016.76

**Nobach, L.; Hausheer, D.**

*PrivateShare: Measuring device-to-device user behavior and transmission quality*

In: Proceedings of the NOMS 2016 - 2016 IEEE/IFIP Network Operations and Management Symposium, 2016,  
S. 830-833, 10.1109/NOMS.2016.7502909

**Wichtlhuber, M.; Wicklein, G.; Wilk, S.; Effelsberg, W.; Hausheer, D.**

*RT-VQM: Real-time video quality assessment for adaptive video streaming using GPUs*

In: Proceedings of the 7th International Conference on Multimedia Systems, MMSys 2016, 2016, S. 209-219,  
10.1145/2910017.2910600

**Nobach, L.; Rimac, I.; Hilt, V.; Hausheer, D.**

*Slim: Enabling efficient, seamless NFV state migration*

In: Proceedings - International Conference on Network Protocols, ICNP, Vol. 2016-December, 2016,  
10.1109/ICNP.2016.7784459

**Wac, K.; Hausheer, D.**

*Software Defined Health*

In: 2015 17th International Conference on E-Health Networking, Application and Services, HealthCom 2015,  
2016, S. 600-601, 10.1109/HealthCom.2015.7454575

**Hohlfeld, O.; Zinner, T.; Benson, T.; Hausheer, D.**

*Special issue on Software-Defined Networking and Network Functions Virtualization for flexible network management*

In: International Journal of Network Management, Vol. 26, 2016, Issue 1, S. 4-5, 10.1002/nem.1915

**2015**

## Begutachteter Zeitschriftenartikel

**Wichtlhuber, M.; Reinecke, R.; Hausheer, D.**

*An SDN-based CDN/ISP collaboration architecture for managing high-volume flows*

*In: IEEE Transactions on Network and Service Management, Vol. 12, 2015, Issue 1, S. 48-60, 10.1109/TNSM.2015.2404792*

**Rückert, J.; Blendin, J.; Hausheer, D.**

*Software-Defined Multicast for Over-the-Top and Overlay-based Live Streaming in ISP Networks*

*In: Journal of Network and Systems Management, Vol. 23, 2015, Issue 2, S. 280-308, 10.1007/s10922-014-9322-8*

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**Blendin, J.; Ruckert, J.; Volk, T.; Hausheer, D.**

*Adaptive Software Defined Multicast*

*In: 1st IEEE Conference on Network Softwarization: Software-Defined Infrastructures for Networks, Clouds, IoT and Services, NETSOFT 2015, 2015, 10.1109/NETSOFT.2015.7116158*

**Kaup, F.; Michelinakis, F.; Bui, N.; Widmer, J.; Wac, K.; Hausheer, D.**

*Behind the NAT - A measurement based evaluation of cellular service quality*

*In: Proceedings of the 11th International Conference on Network and Service Management, CNSM 2015, 2015, S. 228-236, 10.1109/CNSM.2015.7367363*

**Gouta, A.; Hausheer, D.; Kermarrec, A.-M.; Koch, C.; Lelouedec, Y.; Rückert, J.**

*CPSys: A System for Mobile Video Prefetching*

*In: Proceedings - IEEE Computer Society's Annual International Symposium on Modeling, Analysis, and Simulation of Computer and Telecommunications Systems, MASCOTS, Vol. 2015-November, 2015, S. 188-197, 10.1109/MASCOTS.2015.38*

**Kaup, F.; Wichtlhuber, M.; Rado, S.; Hausheer, D.**

*Can Multipath TCP save energy? A measuring and modeling study of MPTCP energy consumption*

*In: Proceedings - Conference on Local Computer Networks, LCN, Vol. 26-29-October-2015, 2015, S. 442-445, 10.1109/LCN.2015.7366348*

**Muller, S.; Al-Shatri, H.; Wichtlhuber, M.; Hausheer, D.; Klein, A.**

*Computation offloading in wireless multi-hop networks: Energy Minimization via multi-dimensional knapsack problem*

*In: IEEE International Symposium on Personal, Indoor and Mobile Radio Communications, PIMRC, Vol. 2015-December, 2015, S. 1717-1722, 10.1109/PIMRC.2015.7343576*

**Ruckert, J.; Blendin, J.; Hark, R.; Hausheer, D.**

*DYNSDM: Dynamic and flexible software-defined multicast for ISP environments*

*In: Proceedings of the 11th International Conference on Network and Service Management, CNSM 2015, 2015, S. 117-125, 10.1109/CNSM.2015.7367347*

**Wichtlhuber, M.; Kaup, F.; Reinecke, R.; Blendin, J.; Hausheer, D.**

*Demo: A holistic energy-monitoring framework for the IT service delivery chain*

*In: Proceedings of the 2015 IFIP/IEEE International Symposium on Integrated Network Management, IM 2015, 2015, S. 1145-1146, 10.1109/INM.2015.7140451*

**Koch, C.; Bui, N.; Rückert, J.; Fioravantti, G.; Michelinakis, F.; Wilk, S.; Widmer, J.; Hausheer, D.**

*Demo: Media download optimization through prefetching and resource allocation in mobile networks*

*In: Proceedings of the 6th ACM Multimedia Systems Conference, MMSys 2015, 2015, S. 85-88, 10.1145/2713168.2713187*

**Burger, V.; Kaup, F.; Seufert, M.; Wichtlhuber, M.; Hausheer, D.; Tran-Gia, P.**

*Energy considerations for WiFi offloading of video streaming*

*In:* Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, LNICST, Vol. 158, 2015, S. 181-195, 10.1007/978-3-319-26925-2\_14

**Mousavi, M.; Al-Shatri, H.; Wichtlhuber, M.; Hausheer, D.; Klein, A.**

*Energy-efficient data dissemination in ad Hoc networks: Mechanism design with potential game*

*In:* Proceedings of the International Symposium on Wireless Communication Systems, Vol. 2016-April, 2015, S. 616-620, 10.1109/ISWCS.2015.7454421

**Nobach, L.; Le Louedec, Y.; Hausheer, D.**

*Evaluating device-to-device content delivery potential on a mobile ISP's dataset*

*In:* Proceedings of the 11th International Conference on Network and Service Management, CNSM 2015, 2015, S. 301-309, 10.1109/CNSM.2015.7367375

**Mousavi, M.; Al-Shatri, H.; Le, H.Q.; Kuehne, A.; Wichtlhuber, M.; Hausheer, D.; Klein, A.**

*Game-based multi-hop broadcast including power control and MRC in wireless networks*

*In:* IEEE International Symposium on Personal, Indoor and Mobile Radio Communications, PIMRC, Vol. 2015-December, 2015, S. 1589-1594, 10.1109/PIMRC.2015.7343552

**Wichtlhuber, M.; Ruckert, J.; Winter, D.; Hausheer, D.**

*How to adapt: SVC-based quality adaptation for hybrid peercasting systems*

*In:* Proceedings of the 2015 IFIP/IEEE International Symposium on Integrated Network Management, IM 2015, 2015, S. 174-182, 10.1109/INM.2015.7140290

**Cordero, C.G.; Vasilomanolakis, E.; Milanov, N.; Koch, C.; Hausheer, D.; Muhlhauser, M.**

*ID2T: A DIY dataset creation toolkit for Intrusion Detection Systems*

*In:* 2015 IEEE Conference on Communications and Network Security, CNS 2015, 2015, S. 739-740, 10.1109/CNS.2015.7346912

**Burger, V.; Seufert, M.; Kaup, F.; Wichtlhuber, M.; Hausheer, D.; Tran-Gia, P.**

*Impact of WiFi offloading on video streaming QoE in urban environments*

*In:* 2015 IEEE International Conference on Communication Workshop, ICCW 2015, 2015, S. 1717-1722, 10.1109/ICCW.2015.7247428

**Michelinakis, F.; Bui, N.; Fioravanti, G.; Widmer, J.; Kaup, F.; Hausheer, D.**

*Lightweight mobile bandwidth availability measurement*

*In:* Proceedings of 2015 14th IFIP Networking Conference, IFIP Networking 2015, 2015, 10.1109/IFIPNetworking.2015.7145324

**Kaup, F.; Melnikowitsch, S.; Hausheer, D.**

*Measuring and modeling the power consumption of OpenFlow switches*

*In:* Proceedings of the 10th International Conference on Network and Service Management, CNSM 2014, 2015, S. 181-186, 10.1109/CNSM.2014.7014156

**Charalambides, M.; Schaeffer-Filho, A.E.; Hausheer, D.; López, D.**

*Message from the ManSDN/NFV workshop co-chairs*

*In:* Proceedings of the 11th International Conference on Network and Service Management, CNSM 2015, 2015, 10.1109/CNSM.2015.7367323

**Nobach, L.; Hausheer, D.**



*Open, elastic provisioning of hardware acceleration in NFV environments*

*In:* Proceedings - International Conference on Networked Systems, NetSys 2015, 2015, 10.1109/NetSys.2015.7089057

**Wichtlhuber, M.; Dargutev, S.; Müller, S.; Klein, A.; Hausheer, D.**

*QTrade: A quality of experience based peercasting trading scheme*

*In:* 2015 IEEE International Conference on Peer-to-Peer Computing, P2P 2015, 2015, 10.1109/P2P.2015.7328525

**Wajda, K.; Stankiewicz, R.; Dulifski, Z.; Hoßfeld, T.; Seufert, M.; Hausheer, D.; Wichtlhuber, M.; Papafili, I.; Dramitinos, M.; Cruschelli, P.; Soursos, S.; Łapacz, R.; Stiller, B.**

*Socially-aware management of new overlay applications traffic - the optimization potentials of the smartenIT approach*

*In:* Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, LNICST, Vol. 141, 2015, S. 290-300, 10.1007/978-3-319-16292-8\_21

**Rückert, J.; Richerzhagen, B.; Lidanski, E.; Steinmetz, R.; Hausheer, D.**

*TOPT: Supporting flash crowd events in hybrid overlay-based live streaming*

*In:* Proceedings of 2015 14th IFIP Networking Conference, IFIP Networking 2015, 2015, 10.1109/IFIPNetworking.2015.7145336

**Blendin, J.; Ruckert, J.; Bleidner, S.; Hausheer, D.**

*Taking the sting out of flow update peaks in software-defined service chaining*

*In:* Proceedings of the 11th International Conference on Network and Service Management, CNSM 2015, 2015, S. 342-347, 10.1109/CNSM.2015.7367380

**Wilk, S.; Ruckert, J.; Thram, T.; Koch, C.; Effelsberg, W.; Hausheer, D.**

*The potential of social-aware multimedia prefetching on mobile devices*

*In:* Proceedings - International Conference on Networked Systems, NetSys 2015, 2015, 10.1109/NetSys.2015.7089081

**Wichtlhuber, M.; Mousavi, M.; Al-Shatri, H.; Klein, A.; Hausheer, D.**

*Towards a framework for cross layer incentive mechanisms for multihop video dissemination*

*In:* Proceedings of the WoWMoM 2015: A World of Wireless Mobile and Multimedia Networks, 2015, 10.1109/WoWMoM.2015.7158176

**Frömmgen, A.; Richerzhagen, B.; Rückert, J.; Hausheer, D.; Steinmetz, R.; Buchmann, A.**

*Towards the description and execution of transitions in networked systems*

*In:* Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), Vol. 9122, 2015, S. 17-29, 10.1007/978-3-319-20034-7\_2

**Hausheer, D.; Hohlfeld, O.; Zinner, T.**

*Workshop on Software-Defined Networking and Network Function Virtualization for Flexible Network Management (SDNFlex 2015): Message from the workshop chairs*

*In:* Proceedings - International Conference on Networked Systems, NetSys 2015, 2015, 10.1109/NetSys.2015.7089094

**2014**

**Begutachteter Zeitschriftenartikel**

**Lin, Y.-D.; Pitt, D.; Hausheer, D.; Johnson, E.; Lin, Y.-B.**

*Software-defined networking: Standardization for cloud computing's second wave*

*In: Computer, Vol. 47, 2014, Issue 11, S. 19-21, 10.1109/MC.2014.329*

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**Ruckert, J.; Knierim, T.; Hausheer, D.**

*Clubbing with the peers: A measurement study of BitTorrent live*

*In: 14th IEEE International Conference on Peer-to-Peer Computing, IEEE P2P 2014 - Proceedings, 2014, 10.1109/P2P.2014.6934295*

**Blendin, J.; Ruckert, J.; Leymann, N.; Schyguda, G.; Hausheer, D.**

*Demo: Software-defined network service chaining*

*In: Proceedings - 2014 3rd European Workshop on Software-Defined Networks, EWSDN 2014, 2014, S. 139-140, 10.1109/EWSDN.2014.15*

**Rückert, J.; Bifulco, R.; Rizwan-UI-Haq, M.; Kolbe, H.-J.; Hausheer, D.**

*Flexible traffic management in broadband access networks using Software Defined Networking*

*In: IEEE/IFIP NOMS 2014 - IEEE/IFIP Network Operations and Management Symposium: Management in a Software Defined World, 2014, 10.1109/NOMS.2014.6838322*

**Koch, C.; Hausheer, D.**

*Optimizing mobile prefetching by leveraging usage patterns and social information*

*In: Proceedings - International Conference on Network Protocols, ICNP, 2014, S. 293-295, 10.1109/ICNP.2014.51*

**Blendin, J.; Ruckert, J.; Leymann, N.; Schyguda, G.; Hausheer, D.**

*Position paper: Software-defined network service chaining*

*In: Proceedings - 2014 3rd European Workshop on Software-Defined Networks, EWSDN 2014, 2014, S. 109-114, 10.1109/EWSDN.2014.14*

**Kaup, F.; Gottschling, P.; Hausheer, D.**

*PowerPi: Measuring and modeling the power consumption of the Raspberry Pi*

*In: Proceedings - Conference on Local Computer Networks, LCN, 2014, S. 236-243, 10.1109/LCN.2014.6925777*

**Wichtlhuber, M.; Richerzhagen, B.; Rückert, J.; Hausheer, D.**

*TRANSIT: Supporting transitions in Peer-to-Peer live video streaming*

*In: 2014 IFIP Networking Conference, IFIP Networking 2014, 2014, 10.1109/IFIPNetworking.2014.6857079*

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