

NETWORKS AND DISTRIBUTED SYSTEMS LAB

Publications

Book chapter

Path Oracle - improving performance of path-aware applications in SCION

Krüger, Thoeben; Beck, Clemens; Hausheer, David

In: 2023 19th International Conference on Network and Service Management (CNSM) - [Piscataway, NJ] : IEEE, insges. 5 S.

›Publication link (<http://dx.doi.org/10.23919/cnsm59352.2023.1032784>)

Book chapter

Hercules: high-speed bulk-transfer over SCION

Gartner, Marten; Smith, Jean-Pierre; Frei, Matthias; Wirz, Francois; Neukom, Cédric; Hausheer, David; Perrig, Adrian

In: 2023 IFIP Networking Conference (IFIP Networking) , 2023 - [Piscataway, NJ] : IEEE, insges. 9 S.

›Publication link (<http://dx.doi.org/10.23919/ifipnetworking57963.2023.1018636>)

Book chapter

DMTP: Deadline-aware multipath transport protocol

John, Tony; Perrig, Adrian; Hausheer, David

In: 2023 IFIP Networking Conference (IFIP Networking) , 2023 - [Piscataway, NJ] : IEEE, insges. 9 S.

›Publication link (<http://dx.doi.org/10.23919/ifipnetworking57963.2023.1018641>)

Book chapter

DDoS detection in P4 Using HYPERLOGLOG and COUNTMIN sketches

Clemens, Vera; Schulz, Lars-Christian; Gartner, Marten; Hausheer, David

In: Proceedings of IEEE/IFIP Network Operations and Management Symposium 2023 , 2023 - [Piscataway, NJ] : IEEE ; Akkaya, Kemal, insges. 6 S.

›Publication link (<http://dx.doi.org/10.1109/noms56928.2023.1015431>)

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BitTorrent over SCION - leveraging Unused Network Capacities in the Internet

Gartner, Marten; Krüger, Thorben; Hausheer, David

In: Proceedings of IEEE/IFIP Network Operations and Management Symposium 2023 , 2023 - [Piscatawa NJ] : IEEE ; Akkaya, Kemal, insges. 5 S.

›Publication link (<http://dx.doi.org/10.1109/noms56928.2023.1015427>)

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High-speed per-packet checksums on the Intel Tofino

Grölle, David; Schulz, Lars-Christian; Wehner, Robin; Hausheer, David

In: EuroP4 '23 - New York, NY, United States : Association for Computing Machinery . - 2023, S. 49-52

›Publication link (<https://doi.org/10.1145/3630047.363019>)

Book chapter

Cryptographic path validation for SCION in P4

Schulz, Lars-Christian; Wehner, Robin; Hausheer, David

In: EuroP4 '23 - New York, NY, United States : Association for Computing Machinery . - 2023, S. 17-23

›Publication link (<https://doi.org/10.1145/3630047.363019>)

Article in conference proceedings

Overcoming deployment and application challenges - introducing the SCION education Network

Perrig, Adrian; Hausheer, David

In: Scion Day 2023 - Network Security Group, ETH Zürich, S. 19

›Publication link (<https://www.scion.org/scion-day>)

Article in conference proceedings

Reliable Communication for Industrial Control Systems over the Internet

John, Tony; Hausheer, David

In: International Conference on Networked Systems 2023, S. Demo Session

Article in conference proceedings

SCION Support for the SEED Internet Emulator

Gartner, Marten; Schulz, Lars-Christian; Krüger, Thorben; John, Tony; Wehner, Robin; Hausheer, David

In: International Conference on Networked Systems 2023, S. Extended Abstract

Article in conference proceedings

Deployment of SCION over BRIDGES

Hausheer, David

In: BRIDGES User Group Meeting - George Mason University . - 2023, insges. 6 S.

›Publication link (<https://cnl.gmu.edu/doc/SCION-BRIDGES.pdf>)

Book chapter

Extensions for the control plane

Chuat, Laurent; Legner, Markus; Basin, David; Hausheer, David; Hitz, Samuel; Müller, Peter; Perrig, Adria

In: The Complete Guide to SCION / Chuat , Laurent , 1st ed. 2022. - Cham : Springer International Publishing ; Chuat, Laurent, S. 185-201

›Publication link (https://doi.org/10.1007/978-3-031-05288-0_

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Offloading SCION packet forwarding to XDP BPF

Schulz, Lars-Christian; Hausheer, David

In: TOBIAS-lib - Publikationen und Dissertationen - Tübingen : UB . - 2022, insges. 2 S.

›Publication link (<http://dx.doi.org/10.15496/publikation-6744>

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Supporting dynamic secure interdomain routing

Schulz, Lars-Christian; Moghadam, Elham Ehsani; Garcia-Pardo, Juan A.; Hausheer, David; Calvert, Ken

In: 2022 IEEE 30th International Conference on Network Protocols (ICNP 2022) / IEEE International Conference on Network Protocols , 2022 - [Piscataway, NJ] : IEEE, insges. 6 S.

›Publication link (<http://dx.doi.org/10.1109/icnp55882.2022.994038>

Book chapter

Motivation for formal verification

Chuat, Laurent; Legner, Markus; Basin, David; Hausheer, David; Hitz, Samuel; Müller, Peter; Perrig, Adria

In: The Complete Guide to SCION/ Chuat - Cham: Springer International Publishing; Chuat, Laurent . - 2022, S. 473-476

›Publication link (http://dx.doi.org/10.1007/978-3-031-05288-0_2

Book chapter

F-PKI - a flexible end-entity public-key infrastructure

Chuat, Laurent; Legner, Markus; Basin, David; Hausheer, David; Hitz, Samuel; Müller, Peter; Perrig, Adria

In: The Complete Guide to SCION/ Chuat - Cham: Springer International Publishing; Chuat, Laurent . - 2022, S. 419-430

›Publication link (http://dx.doi.org/10.1007/978-3-031-05288-0_1

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PILA - pervasive internet-wide low-latency authentication

Chuat, Laurent; Legner, Markus; Basin, David; Hausheer, David; Hitz, Samuel; Müller, Peter; Perrig, Adria

In: The Complete Guide to SCION / Chuat , Laurent , 1st ed. 2022. - Cham : Springer International Publishing ; Chuat, Laurent, S. 461-469

›Publication link (https://doi.org/10.1007/978-3-031-05288-0_2

Book chapter

Current status and plans

Chuat, Laurent; Legner, Markus; Basin, David; Hausheer, David; Hitz, Samuel; Müller, Peter; Perrig, Adria

In: The Complete Guide to SCION / Chuat , Laurent , 1st ed. 2022. - Cham : Springer International Publishing ; Chuat, Laurent, S. 563-572

›Publication link (https://doi.org/10.1007/978-3-031-05288-0_2)

Book chapter

Introduction

Chuat, Laurent; Legner, Markus; Basin, David; Hausheer, David; Hitz, Samuel; Müller, Peter; Perrig, Adria

In: The Complete Guide to SCION / Chuat , Laurent , 1st ed. 2022. - Cham : Springer International Publishing ; Chuat, Laurent, S. 1-13

›Publication link (https://doi.org/10.1007/978-3-031-05288-0_)

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Control plane

Chuat, Laurent; Legner, Markus; Basin, David; Hausheer, David; Hitz, Samuel; Müller, Peter; Perrig, Adria

In: The Complete Guide to SCION / Chuat , Laurent , 1st ed. 2022. - Cham : Springer International Publishing ; Chuat, Laurent, S. 65-91

›Publication link (https://doi.org/10.1007/978-3-031-05288-0_)

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Code-level verification

Chuat, Laurent; Legner, Markus; Basin, David; Hausheer, David; Hitz, Samuel; Müller, Peter; Perrig, Adria

In: The Complete Guide to SCION / Chuat , Laurent , 1st ed. 2022. - Cham : Springer International Publishing ; Chuat, Laurent, S. 519-562

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Availability guarantees

Chuat, Laurent; Legner, Markus; Basin, David; Hausheer, David; Hitz, Samuel; Müller, Peter; Perrig, Adria

In: The Complete Guide to SCION / Chuat , Laurent , 1st ed. 2022. - Cham : Springer International Publishing ; Chuat, Laurent, S. 267-300

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Book chapter

RHINE - secure and reliable internet naming service

Chuat, Laurent; Legner, Markus; Basin, David; Hausheer, David; Hitz, Samuel; Müller, Peter; Perrig, Adria

In: The Complete Guide to SCION / Chuat , Laurent , 1st ed. 2022. - Cham : Springer International Publishing ; Chuat, Laurent, S. 431-459

›Publication link (https://doi.org/10.1007/978-3-031-05288-0_1)

Book chapter

Related work

Chuat, Laurent; Legner, Markus; Basin, David; Hausheer, David; Hitz, Samuel; Müller, Peter; Perrig, Adria

In: The Complete Guide to SCION / Chuat , Laurent , 1st ed. 2022. - Cham : Springer International Publishing ; Chuat, Laurent, S. 575-583

›Publication link (https://doi.org/10.1007/978-3-031-05288-0_2)

Book chapter

Deployment and operation

Chuat, Laurent; Legner, Markus; Basin, David; Hausheer, David; Hitz, Samuel; Müller, Peter; Perrig, Adria

In: The Complete Guide to SCION / Chuat , Laurent , 1st ed. 2022. - Cham : Springer International Publishing ; Chuat, Laurent, S. 317-359

›Publication link (https://doi.org/10.1007/978-3-031-05288-0_1)

Book chapter

SCIONLAB research testbed

Chuat, Laurent; Legner, Markus; Basin, David; Hausheer, David; Hitz, Samuel; Müller, Peter; Perrig, Adria

In: The Complete Guide to SCION / Chuat , Laurent , 1st ed. 2022. - Cham : Springer International Publishing ; Chuat, Laurent, S. 361-369

›Publication link (https://doi.org/10.1007/978-3-031-05288-0_1)

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Security analysis

Chuat, Laurent; Legner, Markus; Basin, David; Hausheer, David; Hitz, Samuel; Müller, Peter; Perrig, Adria

In: The Complete Guide to SCION / Chuat , Laurent , 1st ed. 2022. - Cham : Springer International Publishing ; Chuat, Laurent, S. 157-181

›Publication link (https://doi.org/10.1007/978-3-031-05288-0_1)

Book chapter

Host structure

Chuat, Laurent; Legner, Markus; Basin, David; Hausheer, David; Hitz, Samuel; Müller, Peter; Perrig, Adria

In: The Complete Guide to SCION / Chuat , Laurent , 1st ed. 2022. - Cham : Springer International Publishing ; Chuat, Laurent, S. 303-315

›Publication link (https://doi.org/10.1007/978-3-031-05288-0_1)

Book chapter

Functional properties and scalability

Chuat, Laurent; Legner, Markus; Basin, David; Hausheer, David; Hitz, Samuel; Müller, Peter; Perrig, Adria

In: The Complete Guide to SCION / Chuat , Laurent , 1st ed. 2022. - Cham : Springer International Publishing ; Chuat, Laurent, S. 129-156

›Publication link (https://doi.org/10.1007/978-3-031-05288-0_

Book chapter

Extensions for the data plane

Chuat, Laurent; Legner, Markus; Basin, David; Hausheer, David; Hitz, Samuel; Müller, Peter; Perrig, Adria

In: The Complete Guide to SCION / Chuat , Laurent , 1st ed. 2022. - Cham : Springer International Publishing ; Chuat, Laurent, S. 227-266

›Publication link (https://doi.org/10.1007/978-3-031-05288-0_1

Book chapter

Monitoring and filtering

Chuat, Laurent; Legner, Markus; Basin, David; Hausheer, David; Hitz, Samuel; Müller, Peter; Perrig, Adria

In: The Complete Guide to SCION / Chuat , Laurent , 1st ed. 2022. - Cham : Springer International Publishing ; Chuat, Laurent, S. 203-225

›Publication link (https://doi.org/10.1007/978-3-031-05288-0_

Book chapter

Use cases and applications

Chuat, Laurent; Legner, Markus; Basin, David; Hausheer, David; Hitz, Samuel; Müller, Peter; Perrig, Adria

In: The Complete Guide to SCION / Chuat , Laurent , 1st ed. 2022. - Cham : Springer International Publishing ; Chuat, Laurent, S. 371-392

›Publication link (https://doi.org/10.1007/978-3-031-05288-0_1

Book chapter

Design-level verification

Chuat, Laurent; Legner, Markus; Basin, David; Hausheer, David; Hitz, Samuel; Müller, Peter; Perrig, Adria

In: The Complete Guide to SCION / Chuat , Laurent , 1st ed. 2022. - Cham : Springer International Publishing ; Chuat, Laurent, S. 477-517

›Publication link (https://doi.org/10.1007/978-3-031-05288-0_2

Book chapter

Green networking with SCION

Chuat, Laurent; Legner, Markus; Basin, David; Hausheer, David; Hitz, Samuel; Müller, Peter; Perrig, Adria

In: The Complete Guide to SCION/ Chuat - Cham: Springer International Publishing; Chuat, Laurent . - 2022, S. 393-406

›Publication link (http://dx.doi.org/10.1007/978-3-031-05288-0_1

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Authentication

Chuat, Laurent; Legner, Markus; Basin, David; Hausheer, David; Hitz, Samuel; Müller, Peter; Perrig, Adria

In: The Complete Guide to SCION / Chuat , Laurent , 1st ed. 2022. - Cham : Springer International Publishing ; Chuat, Laurent, S. 35-63

›Publication link (https://doi.org/10.1007/978-3-031-05288-0_

Book chapter

Overview

Chuat, Laurent; Legner, Markus; Basin, David; Hausheer, David; Hitz, Samuel; Müller, Peter; Perrig, Adria

In: The Complete Guide to SCION / Chuat , Laurent , 1st ed. 2022. - Cham : Springer International Publishing ; Chuat, Laurent, S. 17-33

›Publication link (https://doi.org/10.1007/978-3-031-05288-0_

Book chapter

Demonstration of xiondp - an XDP-accelerated processing of SCION packets

Gartner, Marten; Wagner, Johann; Koppehel, Martin; Hausheer, David

In: Network and service management in the era of cloudification, softwarization and artificial intelligence / IEEE/IFIP Network Operations and Management Symposium , 2022 - [Piscataway, NJ] : IEEE ; Varga, Pa

›Publication link (<https://doi.org/10.1109/noms54207.2022.978986>

Book chapter

Data plane

Chuat, Laurent; Legner, Markus; Basin, David; Hausheer, David; Hitz, Samuel; Müller, Peter; Perrig, Adria

In: The Complete Guide to SCION / Chuat , Laurent , 1st ed. 2022. - Cham : Springer International Publishing ; Chuat, Laurent, S. 93-125

›Publication link (https://doi.org/10.1007/978-3-031-05288-0_

Book chapter

XDP-accelerated packet processing on SCION endhosts

Gartner, Marten; Wagner, Johann; Koppehel, Martin; Hausheer, David

In: Network and service management in the era of cloudification, softwarization and artificial intelligence / IEEE/IFIP Network Operations and Management Symposium , 2022 - [Piscataway, NJ] : IEEE ; Varga, Pa

›Publication link (<https://doi.org/10.1109/noms54207.2022.978992>

Article in conference proceedings

The SCION inter-domain routing architecture - from research to deployment

Hausheer, David; Rustignoli, Nicola

In: APNIC 54 - Singapore . - 2022, insges. 24 S.

›Publication link (https://conference.apnic.net/54/assets/files/APSG129/scionapnic22_1663125162.p

Scientific monograph

The Complete Guide to SCION - From Design Principles to Formal Verification

Chuat, Laurent; Legner, Markus; Basin, David; Hausheer, David; Hitz, Samuel; Müller, Peter; Perrig, Adria

In: Cham: Imprint: Springer, 2022., 1 Online-Ressource(XXI, 656 p. 158 illus., 121 illus. in color.) - (Information Security and Cryptography; Springer eBook Collection), ISBN: 978-3-031-05288-0

›Publication link (<https://doi.org/10.1007/978-3-031-05288-0>)

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SCION - a novel internet architecture

Hausheer, David

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

›Publication link (<https://labs.ripe.net/author/hausheer/scion-a-novel-internet-architectur>)

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SpeedCam - towards efficient flow monitoring for multipath communication

Gärtner, Kilian; Kwon, Jonghoon; Hausheer, David

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

›Publication link (<https://ieeexplore.ieee.org/document/946397>)

Book chapter

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

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

In: 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

›Publication link (<https://doi.org/10.1145/3485983.349486>)

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Towards an API for the path-aware internet

Krüger, Thorben; Hausheer, David

In: Proceedings of the ACM SIGCOMM 2021 Workshop on Network-Application Integration - New York,NY,United States : Association for Computing Machinery, S. 68-72

›Publication link (<https://doi.org/10.1145/3472727.347280>)

Book chapter

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

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

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

›Publication link (<https://doi.org/10.1145/3472716.347285>)

Book chapter

Proposal for a SCION Working Group

Hausheer, David; Perrig, Adrian

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

›Publication link (<https://ripe82.ripe.net/wp-content/uploads/presentations/35-Proposal-for-a-SCION-Working-Group.ppt>)

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S3MP - a SCION based secure smart metering platform

John, Tony; Hausheer, David

In: IFIP/IEEE International Symposium on Integrated Network Management , 2021 - [Piscataway, NJ] : IEEE, S. 944-949

›Publication link (<https://ieeexplore.ieee.org/document/946392>)

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Towards SCION-enabled IXPs - the SCION peering coordinator

Schulz, Lars-Christian; Hausheer, David

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

›Publication link (<https://doi.org/10.14279/tuj.eceasst.80.1159.109>)

Peer-reviewed journal article

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

Krüger, Thorben; Hausheer, David

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

›Publication link (<http://dx.doi.org/10.14279/tuj.eceasst.80.114>)

Abstract

Secure networks for IoT devices

Hausheer, David; Perrig, Adrian

In: RIPE80: virtual,12-14 May 2020 - RIPE, 2020 . - 2020, insges. 8 S.

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Abstract

SCION implementation and SCIONLab testbed

Hausheer, David

In: ACM SIGCOMM 2020 Tutorial on SCION, a Next-Generation Secure Internet Architecture - SIGCOMM 2020 . - 2020, S. 56-72

›Publication link (<https://conferences.sigcomm.org/sigcomm/2020/tutorial-scion.htm>)

Abstract

The role of RIRs and LIRs in SCION

Hausheer, David; Reijs, Victor; Perrig, Adrian

In: RIPE81: virtual, 27-20 Oct. 2020 : presentation archive - RIPE, 2020 . - 2020, insges. 18 S.[Meeting: RIPE81, virtual, 27-30 October, 2020]

›Publication link (<https://ripe81.ripe.net/wp-content/uploads/presentations/7-The-Role-of-RIRs-and-LIRs-in-SCION.pdf>)

Book chapter

SCIONLAB - a next-generation internet testbed

Kwon, Jonghoon; García-Pardo, Juan A.; Legner, Markus; Wirz, François; Frei, Matthias; Hausheer, David; Perrig, Adrian

In: The 28th IEEE International Conference on Network Protocols (ICNP): October 13-16, 2020, Madrid, Spain - Piscataway, NJ: IEEE, 2020 . - 2020, insges. 12 S.[Konferenz: 2020 IEEE 28th International Conference on Network Protocols, ICNP, Madrid, Spain, 13-16 October 2020]

›Publication link (<http://dx.doi.org/10.1109/ICNP49622.2020.925935>)

Non-peer-reviewed journal article

Internet Testbed der nächsten Generation SCIONLab jetzt mit DFN-GVS

Hausheer, David

In: DFN-Mitteilungen - [Berlin]: Verein, Bd. 97.2020, S. 31-35

›Publication link (https://www.dfn.de/fileadmin/5Presse/DFNMitteilungen/DFN_Mitteilungen_97_download.pdf)

Abstract

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

Hausheer, David; Hohlfeld, Oliver; Zinner, Thomas

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[Konferenz: 2019 International Conference on Networked Systems, NetSys, Munich, Germany, 18-21 March 2019]

›Publication link (<http://dx.doi.org/10.1109/NetSys.2019.8854500>)

Abstract

Secure smart home - IoT use case and beyond

Hausheer, David

In: Scion Day - Network Security Group, ETH Zürich, 2019 . - 2019, insges. 11 S.[Scion Day, Zürich, 6. November 2019]

›Publication link (https://www.scion-architecture.net/pages/scion_day/slides/Secure%20smart%20home%20IoT%20use%20case.p)

Abstract

SCION project testbed trials

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

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

›Publication link (https://www.geant.org/Services/Connectivity_and_network/GTS/PublishingImages/Pages/4th-GT-Workshop/SCIONLab-GTS-2018.p)

Abstract

SCIONLab - a deployment of the SCION secure internet architecture

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

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

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

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

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[Symposium: 2018 IEEE/IFIP Network Operations and Management Symposium, NOMS 2018, Taipei, Taiwan, 23-27 April 2018]

›Publication link (<http://dx.doi.org/10.1145/3204949.320496>)

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Energy models for NFV and service provisioning on fog nodes

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

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.[Symposium: 2018 IEEE/IFIP Network Operations and Management Symposium, NOMS 2018, Taipei, Taiwan, 23-27 April 2018]

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RTP packet loss healing on a bare-metal switch

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

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[Symposium: 2018 IEEE/IFIP Network Operations and Management Symposium, NOMS 2018, Taipei Taiwan, 23-27 April 2018]

›Publication link (<http://dx.doi.org/10.1109/noms.2018.840611>)

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

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

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

›Publication link (<http://dx.doi.org/10.23919/CNSM.2017.825601>)

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Security and performance of software-defined networks and functions virtualization

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

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

›Publication link (<http://dx.doi.org/10.1016/j.comnet.2018.03.02>)

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

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

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

›Publication link (http://www.netsys.ovgu.de/netsys_media/publications/NetSys_TR_2018_01.pdf)

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Measuring and predicting cellular network quality on trains

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

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

›Publication link (<https://www.scopus.com/inward/record.uri?eid=2-s2.85019229546&doi=10.1109%2fNetSys.2017.7903960&partnerID=40&md5=f8efab9b2a6f0e5b3a01ee160ab1c5b>)

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

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

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, Jer . - 2017[Konferenz: 2017 IEEE 42nd Conference on Local Computer Networks, LCN, Singapore, 9-12 October 2017]

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

Wulfheide, Julian; Rückert, Julius; Hausheer, David

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, Jer . - 2017[Konferenz: 2017 IEEE 42nd Conference on Local Computer Networks, LCN, Singapore, 9-12 October 2017]

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Book chapter

SoDA: Enabling CDN-ISP collaboration with software defined anycast

Wichtlhuber, Matthias; Kessler, Jan; Bücken, Sebastian; Poese, Ingmar; Blendin, Jeremias; Koch, Christia Hausheer, David

In: 2017 IFIP Networking Conference (IFIP Networking) and workshops: 12-16 June 2017/ IFIP Networkin - [Piscataway, NJ]: IEEE, 2017; IFIP Networking (16.:2017) . - 2017[Konferenz: 2017 IFIP Networking Conference and Workshops, Stockholm, Sweden, 12-16 June 2017]

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

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

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

Koch, Christian; Krupii, Ganna; Hausheer, David

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

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VoDCAST - efficient SDN-based multicast for video on demand

Koch, Christian; Hacker, Stefan; Hausheer, David

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

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

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

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

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

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