Thomas Zinner

List of Publications by Year
in descending order

		759233	330143
115	2,673	12	37
papers	citations	h-index	g-index

119	119	119	2027
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	QoS-Aware Inter-Domain Connectivity: Control Plane Design and Operational Considerations. , 2022, , .		0
2	Guest Editors Introduction: Special Issue on Advanced Management of Softwarized Networks. IEEE Transactions on Network and Service Management, 2021, 18, 20-29.	4.9	0
3	TeraFlow: Secured Autonomic Traffic Management for a Tera of SDN flows. , 2021, , .		20
4	Using 5G QoS Mechanisms to Achieve QoE-Aware Resource Allocation. , 2021, , .		9
5	Toward Consistent SDNs: A Case for Network State Fuzzing. IEEE Transactions on Network and Service Management, 2020, 17, 668-681.	4.9	15
6	The Power of Composition: Abstracting a Multi-Device SDN Data Path Through a Single API. IEEE Transactions on Network and Service Management, 2020, 17, 722-735.	4.9	3
7	Accuracy vs. Cost Trade-off for Machine Learning Based QoE Estimation in 5G Networks. , 2020, , .		8
8	Linking QoE and Performance Models for DASH-based Video Streaming. , 2020, , .		2
9	P4Consist: Toward Consistent P4 SDNs. IEEE Journal on Selected Areas in Communications, 2020, 38, 1293-1307.	14.0	19
10	Scalable Application- and User-aware Resource Allocation in Enterprise Networks Using End-Host Pacing. ACM Transactions on Modeling and Performance Evaluation of Computing Systems, 2020, 5, 1-41.	0.9	4
11	Comparing fixed and variable segment durations for adaptive video streaming. , 2020, , .		6
12	Using informed access network selection to improve HTTP adaptive streaming performance. , 2020, , .		2
13	Discrete-Time Modeling of NFV Accelerators that Exploit Batched Processing. , 2019, , .		7
14	Computing QoE-Relevant Adaptive Video Streaming Metrics Using Discrete-Time Analysis. , 2019, , .		2
15	Estimating Video Streaming QoE in the 5G Architecture Using Machine Learning. , 2019, , .		21
16	BBGDASH: A Max-Min Bounded Bitrate Guidance for SDN Enabled Adaptive Video Streaming. , 2019, , .		1
17	Survey of Performance Acceleration Techniques for Network Function Virtualization. Proceedings of the IEEE, 2019, 107, 746-764.	21.3	78
18	Web Performance Pitfalls. Lecture Notes in Computer Science, 2019, , 286-303.	1.3	10

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19	Bandwidth Prediction Schemes for Defining Bitrate Levels in SDN-enabled Adaptive Streaming. , 2019, , .		5
20	KOMon â€" Kernel-based Online Monitoring of VNF Packet Processing Times. , 2019, , .		7
21	Modeling Adaptive Video Streaming Using Discrete-Time Analysis. , 2019, , .		1
22	Guest Editorial: Special Issue on Latest Developments for the Management of Softwarized Networks. IEEE Transactions on Network and Service Management, 2019, 16, 1297-1302.	4.9	1
23	Informed Access Network Selection: The Benefits of Socket Intents for Web Performance. , 2019, , .		1
24	Performance Benchmarking of Network Function Chain Placement Algorithms. Lecture Notes in Computer Science, 2018, , 83-98.	1.3	3
25	Estimating the Flow Rule Installation Time of SDN Switches When Facing Control Plane Delay. Lecture Notes in Computer Science, 2018, , 113-126.	1.3	5
26	SDN and NFV as Enabler for the Distributed Network Cloud. Mobile Networks and Applications, 2018, 23, 521-528.	3.3	15
27	Identification of Delay Thresholds Representing the Perceived Quality of Enterprise Applications. , 2018, , .		1
28	Benchmarking the ONOS Controller with OFCProbe. , 2018, , .		5
29	Evaluation of a Distributed Control Plane for Managing Heterogeneous SDN-enabled and Legacy Networks. , 2018, , .		2
30	Evaluation of the Benefits of Variable Segment Durations for Adaptive Streaming. , 2018, , .		4
31	Integrating network management information into the SDN control plane. , 2018, , .		2
32	A Generic Approach to Video Buffer Modeling Using Discrete-Time Analysis. ACM Transactions on Multimedia Computing, Communications and Applications, 2018, 14, 1-23.	4.3	15
33	QoE Management for Future Networks. Lecture Notes in Computer Science, 2018, , 49-80.	1.3	7
34	Matching Requirements for Ambient Assisted Living and Enhanced Living Environments with Networking Technologies. , 2017, , 91-121.		5
35	Simulation Framework for Distributed SDN-Controller Architectures in OMNeT++. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2017, , 3-18.	0.3	6
36	An SDN/NFV-Enabled Enterprise Network Architecture Offering Fine-Grained Security Policy Enforcement. , 2017, 55, 217-223.		42

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37	A discrete-time model for optimizing the processing time of virtualized network functions. Computer Networks, 2017, 125, 4-14.	5.1	5
38	A priori state synchronization for fast failover of stateful firewall VNFs. , 2017, , .		7
39	Analytical Model for SDN Signaling Traffic and Flow Table Occupancy and Its Application for Various Types of Traffic. IEEE Transactions on Network and Service Management, 2017, 14, 603-615.	4.9	18
40	SDN/NFV-enabled Security Architecture for Fine-grained Policy Enforcement and Threat Mitigation for Enterprise Networks. , 2017, , .		2
41	Designing a Survey Tool for Monitoring Enterprise QoE. , 2017, , .		1
42	Collecting subjective ratings in enterprise environments. , 2017, , .		0
43	Comparison of the initial delay for video playout start for different HTTP-based transport protocols. , 2017, , .		9
44	Design and Performance Evaluation of Network-assisted Control Strategies for HTTP Adaptive Streaming. ACM Transactions on Multimedia Computing, Communications and Applications, 2017, 13, 1-24.	4.3	28
45	Quantitative comparison of applicationâ€“network interaction: a case study of adaptive video streaming. Quality and User Experience, 2017, 2, 1.	3.9	4
46	Performance evaluation of selective flow monitoring in the ONOS controller. , 2017, , .		4
47	Taming the Complexity of Artifact Reproducibility. , 2017, , .		3
48	An AAL-oriented measurement-based evaluation of different HTTP-based data transport protocols. , 2017, , .		1
49	Tablevisor 2.0: Towards full-featured, scalable and hardware-independent multi table processing. , 2017, , .		6
50	A Multi-objective Heuristic for the Optimization of Virtual Network Function Chain Placement. , 2017, , .		25
51	Processing Time Comparison of a Hardware-Based Firewall and Its Virtualized Counterpart. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2017, , 220-228.	0.3	0
52	ZOOM: Lightweight SDN-Based Elephant Detection. , 2016, , .		3
53	Performance analysis of hierarchical caching systems with bandwidth constraints. , 2016, , .		1
54	Towards a Framework for Comparing Application-Network Interaction Mechanisms. , 2016, , .		5

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55	Correlating QoE and Technical Parameters of an SAP System in an Enterprise Environment. , 2016, , .		5
56	ERWIN - enabling the reproducible investigation of waiting times for arbitrary workflows. , 2016, , .		3
57	Demonstrating a Personalized Secure-by-Default Bring Your Own Device Solution Based on Software Defined Networking. , 2016, , .		2
58	Performance Modeling of Softwarized Network Functions Using Discrete-Time Analysis. , 2016, , .		10
59	Analytic model for SDN controller traffic and switch table occupancy. , 2016, , .		6
60	Performance evaluation mechanisms for FlowMod message processing in OpenFlow switches. , 2016, , .		10
61	Special issue on Softwareâ€Defined Networking and Network Functions Virtualization for flexible network management. International Journal of Network Management, 2016, 26, 4-5.	2.2	3
62	Editorial: Mobile Networks and Management. Mobile Networks and Applications, 2016, 21, 561-563.	3.3	1
63	Recent Advances on Future Networks and their Management. Mobile Networks and Applications, 2016, 21, 223-225.	3.3	0
64	Modelling and performance analysis of applicationâ€aware resource management. International Journal of Network Management, 2015, 25, 223-241.	2.2	3
65	Performance benchmarking of a software-based LTE SGW. , 2015, , .		21
66	A Context-Aware Traffic Engineering Model for Software-Defined Networks. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2015, , 73-82.	0.3	1
67	Continuously delivering your network. , 2015, , .		1
68	Table Visor: An Emulation Layer for Multi-table Open Flow Switches. , 2015, , .		4
69	Advances in management of multimedia services. International Journal of Network Management, 2015, 25, 203-204.	2.2	0
70	Heuristic Approaches to the Controller Placement Problem in Large Scale SDN Networks. IEEE Transactions on Network and Service Management, 2015, 12, 4-17.	4.9	327
71	Identifying QoE optimal adaptation of HTTP adaptive streaming based on subjective studies. Computer Networks, 2015, 81, 320-332.	5.1	58
72	Investigating isolation between virtual networks in case of congestion for a Pronto 3290 switch. , 2015, , .		3

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73	Specialized Heuristics for the Controller Placement Problem in Large Scale SDN Networks. , 2015, , .		29
74	Text Categorization for Deriving the Application Quality in Enterprises Using Ticketing Systems. Lecture Notes in Computer Science, 2015, , 325-336.	1.3	6
75	Investigating the impact of network topology on the processing times of SDN controllers. , 2015, , .		13
76	A Survey on Quality of Experience of HTTP Adaptive Streaming. IEEE Communications Surveys and Tutorials, 2015, 17, 469-492.	39.4	617
77	Requirement driven prospects for realizing user-centric network orchestration. Multimedia Tools and Applications, 2015, 74, 413-437.	3.9	8
78	Demonstrating the optimal placement of virtualized cellular network functions in case of large crowd events. Computer Communication Review, 2015, 44, 359-360.	1.8	11
79	Demonstrating the prospects of dynamic application-aware networking in a home environment. Computer Communication Review, 2015, 44, 149-150.	1.8	5
80	Implementing Application-Aware Resource Allocation on a Home Gateway for the Example of YouTube. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2015, , 301-312.	0.3	4
81	Catching the download train: Energy-efficient file downloading on smartphones. , 2014, , .		3
82	Assessing effect sizes of influence factors towards a QoE model for HTTP adaptive streaming. , 2014, , .		57
83	Dynamic bandwidth allocation for multiple network connections. , 2014, , .		6
84	Demonstrating the optimal placement of virtualized cellular network functions in case of large crowd events. , 2014, , .		11
85	Demonstrating the prospects of dynamic application-aware networking in a home environment. , 2014, , .		5
86	Close to Optimum?. PIK - Praxis Der Informationsverarbeitung Und Kommunikation, 2014, 37, .	0.2	3
87	Future Internet research and experimentation: The G-Lab approach. Computer Networks, 2014, 61, 102-117.	5.1	28
88	OFCProbe: A platform-independent tool for OpenFlow controller analysis. , 2014, , .		13
89	POCO-framework for Pareto-optimal resilient controller placement in SDN-based core networks. , 2014, , .		64
90	POCO-PLC: Enabling dynamic pareto-optimal resilient controller placement in SDN networks. , 2014, , .		27

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91	Including energy efficiency aspects in multi-layer optical network design. , 2014, , .		2
92	Dynamic application-aware resource management using Software-Defined Networking: Implementation prospects and challenges. , 2014, , .		36
93	Interfaces, attributes, and use cases: A compass for SDN. , 2014, 52, 210-217.		145
94	Pareto-optimal resilient controller placement in SDN-based core networks. , 2013, , .		192
95	Dynamic HTTP download scheduling with respect to energy consumption. , 2013, , .		3
96	SDN-Based Application-Aware Networking on the Example of YouTube Video Streaming. , 2013, , .		99
97	On the accuracy of leveraging SDN for passive network measurements. , 2013, , .		15
98	Investigation of Different Approaches for QoE-Oriented Scheduling in OFDMA Networks. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2013, , 172-187.	0.3	5
99	User-Centric Network-Application Interaction for Live HD Video Streaming. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2013, , 71-83.	0.3	1
100	Evaluating the trade-off between energy efficiency and QoE in wireless mesh networks. , 2012, , .		2
101	Quality Adaptation in P2P Video Streaming Based on Objective QoE Metrics. Lecture Notes in Computer Science, 2012, , 1-14.	1.3	14
102	Experimental Demonstration of Network Virtualization and Resource Flexibility in the COMCON Project. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2012, , 114-129.	0.3	1
103	The QoE provisioning-delivery-hysteresis and its importance for service provisioning in the Future Internet. , 2011, , .		15
104	Influence of traffic management solutions on Quality of Experience for prevailing overlay applications. , 2011, , .		1
105	Performance of concurrent multipath transmissions â€" Measurements and model validation. , 2011, , .		3
106	MultiNext — Measuring concurrent multipath transmissions in an experimental facility. , 2011, , .		0
107	Quantification of YouTube QoE via Crowdsourcing. , 2011, , .		170
108	On the impact of quality adaptation in SVC-based P2P video-on-demand systems. , 2011, , .		31

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109	Performance evaluation of packet reordering on concurrent multipath transmissions for transport virtualisation. International Journal of Communication Networks and Distributed Systems, 2011, 6, 322.	0.4	9
110	Multipath Routing Slice Experiments in Federated Testbeds. Lecture Notes in Computer Science, 2011, , 247-258.	1.3	3
111	Impact of frame rate and resolution on objective QoE metrics. , 2010, , .		89
112	Using concurrent multipath transmission for Transport Virtualization: Analyzing path selection. , 2010, , .		12
113	Performance Evaluation of the Information Sink in a Multi-Probe Statistical Anomaly Detection System. , 2008, , .		0
114	On the Trade-Off between Efficiency and Congestion in Location-Aware Overlay Networks - Example of a Vertical Handover Support System. , 2008, , .		0
115	Green Wireless-Energy Efficiency in Wireless Networks. , 0, , 81-130.		0