Andreas Blenk

List of Publications by Year
in descending order

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51	1,102	1040056	940533
papers	citations	9 h-index	16 g-index

53	53	53	1148
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Survey on Network Virtualization Hypervisors for Software Defined Networking. IEEE Communications Surveys and Tutorials, 2016, 18, 655-685.	39.4	226
2	Adaptable and Data-Driven Softwarized Networks: Review, Opportunities, and Challenges. Proceedings of the IEEE, 2019, 107, 711-731.	21.3	80
3	Towards a Cost Optimal Design for a 5G Mobile Core Network Based on SDN and NFV. IEEE Transactions on Network and Service Management, 2017, 14, 1061-1075.	4.9	79
4	Flexibility in Softwarized Networks: Classifications and Research Challenges. IEEE Communications Surveys and Tutorials, 2019, 21, 2600-2636.	39.4	55
5	Control Plane Latency With SDN Network Hypervisors: The Cost of Virtualization. IEEE Transactions on Network and Service Management, 2016, 13, 366-380.	4.9	47
6	HyperFlex: An SDN virtualization architecture with flexible hypervisor function allocation. , 2015, , .		43
7	Modeling flow setup time for controller placement in SDN: Evaluation for dynamic flows. , 2017, , .		41
8	Dynamic application-aware resource management using Software-Defined Networking: Implementation prospects and challenges. , 2014, , .		36
9	Performance study of dynamic QoS management for OpenFlow-enabled SDN switches. , 2015, , .		30
10	Efficient Loop-Free Rerouting of Multiple SDN Flows. IEEE/ACM Transactions on Networking, 2018, 26, 948-961.	3.8	30
11	Assessing the Maturity of SDN Controllers With Software Reliability Growth Models. IEEE Transactions on Network and Service Management, 2018, 15, 1090-1104.	4.9	30
12	Boost online virtual network embedding: Using neural networks for admission control. , 2016, , .		29
13	Empowering Self-Driving Networks. , 2018, , .		29
14	How to Measure Network Flexibility? A Proposal for Evaluating Softwarized Networks. IEEE Communications Magazine, 2018, 56, 186-192.	6.1	28
15	NeuroViNE: A Neural Preprocessor for Your Virtual Network Embedding Algorithm. , 2018, , .		27
16	Pairing SDN with network virtualization: The network hypervisor placement problem. , 2015, , .		24
17	Towards a dynamic SDN virtualization layer: Control path migration protocol. , 2015, , .		23
18	o'zapft is. , 2017, , .		19

#	Article	IF	Citations
19	Algorithm-data driven optimization of adaptive communication networks. , 2017, , .		18
20	Network configuration with quality of service abstractions for SDN and legacy networks. , 2015, , .		15
21	Traffic pattern based virtual network embedding. , 2013, , .		14
22	How flexible is dynamic SDN control plane?. , 2017, , .		14
23	Empirical Predictability Study of SDN Switches. , 2019, , .		12
24	The cost of aggressive HTTP adaptive streaming: Quantifying YouTube's redundant traffic. , 2015, , .		11
25	NetBOA. , 2019, , .		11
26	Toward Consistent State Management of Adaptive Programmable Networks Based on P4. , 2019, , .		10
27	SDN and NFV Dynamic Operation of LTE EPC Gateways for Time-Varying Traffic Patterns. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2015, , 63-76.	0.3	10
28	Using a flexibility measure for network design space analysis of SDN and NFV. , 2016, , .		9
29	Ahab: Data-Driven Virtual Cluster Hunting. , 2018, , .		9
30	A mathematical framework for measuring network flexibility. Computer Communications, 2020, 164, 13-24.	5.1	9
31	Online resource mapping for SDN network hypervisors using machine learning. , 2016, , .		8
32	hvbench: An open and scalable SDN network hypervisor benchmark. , 2016, , .		8
33	On the Benefits of Joint Optimization of Reconfigurable CDN-ISP Infrastructure. IEEE Transactions on Network and Service Management, 2022, 19, 158-173.	4.9	8
34	Towards a programmable management plane for SDN and legacy networks. , 2016, , .		7
35	Loko. , 2019, , .		7
36	Coupling VNF Orchestration and SDN Virtual Network Reconfiguration. , 2019, , .		5

#	Article	IF	Citations
37	MARC: On Modeling and Analysis of Software-Defined Radio Access Network Controllers. IEEE Transactions on Network and Service Management, 2021, 18, 4602-4615.	4.9	5
38	HyperFlex: Demonstrating control-plane isolation for virtual software-defined networks. , 2015, , .		4
39	Generating synthetic Internet- and IP-topologies using the Stochastic-Block-Model. , 2017, , .		4
40	Ismael: Using Machine Learning to Predict Acceptance of Virtual Clusters in Data Centers. IEEE Transactions on Network and Service Management, 2019, 16, 950-964.	4.9	4
41	Alert-Based Network Reconfiguration and Data Evacuation. Computer Communications and Networks, 2020, , 353-377.	0.8	4
42	Dynamic HTTP download scheduling with respect to energy consumption. , 2013, , .		3
43	Modelling and performance analysis of applicationâ€aware resource management. International Journal of Network Management, 2015, 25, 223-241.	2.2	3
44	Modeling the Cost of Flexibility in Communication Networks. , 2021, , .		3
45	perfbench. , 2018, , .		2
46	Modeling IP-to-IP Communication using the Weighted Stochastic Block Model. , 2018, , .		2
47	Poster abstract: Themis: A data-driven approach to bot detection. , 2018, , .		2
48	NOracle. , 2019, , .		2
49	Enabling SDN Hypervisor Provisioning Through Accurate CPU Utilization Prediction. IEEE Transactions on Network and Service Management, 2021, 18, 1360-1374.	4.9	2
50	P4Update. , 2021, , .		1
51	ARES: A Framework for Management of Aging and Rejuvenation in Softwarized Networks. IEEE Transactions on Network and Service Management, 2021, 18, 1389-1400.	4.9	0