

Jun Bi

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6556386/publications.pdf>

Version: 2024-02-01

96
papers

1,445
citations

777949

13
h-index

536525

29
g-index

97
all docs

97
docs citations

97
times ranked

1617
citing authors

#	ARTICLE	IF	CITATIONS
1	NetEC: Accelerating Erasure Coding Reconstruction with In-Network Aggregation. IEEE Transactions on Parallel and Distributed Systems, 2022, , 1-1.	4.0	1
2	Octans: Optimal Placement of Service Function Chains in Many-Core Systems. IEEE Transactions on Parallel and Distributed Systems, 2021, 32, 2202-2215.	4.0	13
3	Prophet: Toward Fast, Error-Tolerant Model-Based Throughput Prediction for Reactive Flows in DC Networks. IEEE/ACM Transactions on Networking, 2020, 28, 2475-2488.	2.6	5
4	NetView: Towards On-Demand Network-Wide Telemetry in the Data Center. , 2020, , .		7
5	HyperSight: Towards Scalable, High-Coverage, and Dynamic Network Monitoring Queries. IEEE Journal on Selected Areas in Communications, 2020, 38, 1147-1160.	9.7	14
6	VMS: Load Balancing Based on the Virtual Switch Layer in Datacenter Networks. IEEE Journal on Selected Areas in Communications, 2020, 38, 1176-1190.	9.7	9
7	<i>MicroNF</i>: An Efficient Framework for Enabling Modularized Service Chains in NFV. IEEE Journal on Selected Areas in Communications, 2019, 37, 1851-1865.	9.7	10
8	P4DB: On-the-Fly Debugging for Programmable Data Planes. IEEE/ACM Transactions on Networking, 2019, 27, 1714-1727.	2.6	5
9	HyperVDP: High-Performance Virtualization of the Programmable Data Plane. IEEE Journal on Selected Areas in Communications, 2019, 37, 556-569.	9.7	29
10	Tripod: Towards a Scalable, Efficient and Resilient Cloud Gateway. IEEE Journal on Selected Areas in Communications, 2019, 37, 570-585.	9.7	12
11	VNE-TD: A virtual network embedding algorithm based on temporal-difference learning. Computer Networks, 2019, 161, 251-263.	3.2	30
12	Prophet. , 2019, , .		1
13	An Objective-Driven On-Demand Network Abstraction for Adaptive Applications. IEEE/ACM Transactions on Networking, 2019, 27, 805-818.	2.6	4
14	Tunneling over IP Based on Match-Action Table in Software Defined Networks. , 2018, , .		1
15	Enabling NFV Elasticity Control With Optimized Flow Migration. IEEE Journal on Selected Areas in Communications, 2018, 36, 2288-2303.	9.7	22
16	A SDN-Based Framework for Fine-Grained Inter-domain Routing Diversity. Mobile Networks and Applications, 2017, 22, 906-917.	2.2	8
17	ARPIM: IP Address Resource Pooling and Intelligent Management System for Broadband IP Networks. , 2017, 55, 55-61.		5
18	FTGuard. , 2017, , .		24

#	ARTICLE	IF	CITATIONS
19	NFP. , 2017, , .		169
20	P4DB: On-the-fly debugging of the programmable data plane. , 2017, , .		9
21	HYPER: A Hybrid High-Performance Framework for Network Function Virtualization. IEEE Journal on Selected Areas in Communications, 2017, 35, 2490-2500.	9.7	22
22	NeSMA: Enabling network-level state-aware applications in SDN. , 2016, , .		0
23	BTSDN: BGP-Based Transition for the Existing Networks to SDN. Wireless Personal Communications, 2016, 86, 1829-1843.	1.8	11
24	CPHR: In-Network Caching for Information-Centric Networking With Partitioning and Hash-Routing. IEEE/ACM Transactions on Networking, 2016, 24, 2742-2755.	2.6	58
25	DISCS: A DIStributed Collaboration System for Inter-AS Spoofing Defense. , 2015, , .		6
26	WEBridge: westâ€east bridge for distributed heterogeneous SDN NOSes peering. Security and Communication Networks, 2015, 8, 1926-1942.	1.0	12
27	On the deployability of inter-AS spoofing defenses. IEEE Network, 2015, 29, 82-87.	4.9	2
28	Passive IP Traceback: Disclosing the Locations of IP Spoofers From Path Backscatter. IEEE Transactions on Information Forensics and Security, 2015, 10, 471-484.	4.5	69
29	Design and Implementation of a Software-Defined Mobility Architecture for IP Networks. Mobile Networks and Applications, 2015, 20, 40-52.	2.2	40
30	OpenRouteFlow: Enable Legacy Router as a Software-Defined Routing Service for Hybrid SDN. , 2015, , .		11
31	Orion: A Hybrid Hierarchical Control Plane of Software-Defined Networking for Large-Scale Networks. , 2014, , .		47
32	Performing software defined route-based IP spoofing filtering with SEFA. , 2014, , .		5
33	A solution for IP mobility support in software defined networks. , 2014, , .		44
34	Joint allocation and scheduling of network resource for multiple control applications in SDN. , 2014, , .		18
35	LAS: An effective anti-spoofing method using existing information. , 2014, , .		1
36	On the Capacitated Controller Placement Problem in Software Defined Networks. IEEE Communications Letters, 2014, 18, 1339-1342.	2.5	305

#	ARTICLE	IF	CITATIONS
37	Toward Incentivizing Anti-Spoofing Deployment. IEEE Transactions on Information Forensics and Security, 2014, 9, 436-450.	4.5	63
38	CRRP: Cost-Based Replacement with Random Placement for En-Route Caching. IEICE Transactions on Information and Systems, 2014, E97.D, 1914-1917.	0.4	0
39	An adaptive probabilistic marking scheme for fast and secure traceback. Networking Science, 2013, 2, 42-51.	1.2	8
40	Collaborative caching based on hash-routing for information-centric networking. , 2013, , .		25
41	Refining IP-to-AS Mappings for AS-Level Traceroute. , 2013, , .		4
42	GRS: Global Resolution Service for mobility support in the Internet. , 2013, , .		0
43	HTTP-CCN gateway: Adapting HTTP protocol to Content Centric Network. , 2013, , .		1
44	On the cascading failures of multi-controllers in Software Defined Networks. , 2013, , .		10
45	VASE: Filtering IP spoofing traffic with agility. Computer Networks, 2013, 57, 243-257.	3.2	13
46	Towards a Cooperative Mechanism Based Distributed Source Address Filtering. , 2013, , .		4
47	Interest set mechanism to improve the transport of named data networking. , 2013, , .		3
48	Making intra-domain traffic engineering resistant to failures. , 2013, , .		2
49	East-West Bridge for SDN Network Peering. Communications in Computer and Information Science, 2013, , 170-181.	0.4	19
50	Mobility support in the internet using identifiers. , 2012, , .		4
51	An Incrementally Deployable Flow-Based Scheme for IP Traceback. IEEE Communications Letters, 2012, 16, 1140-1143.	2.5	15
52	Towards an Aggregation-Aware Internet Routing. , 2012, , .		5
53	A Flow-Based Traceback Scheme on an AS-Level Overlay Network. , 2012, , .		4
54	An Easy Matrix Computation Based Simulator of NDN. , 2012, , .		1

#	ARTICLE	IF	CITATIONS
55	A content provider mobility solution of named data networking. , 2012, , .		7
56	TUNOS: A novel SDN-oriented networking operating system. , 2012, , .		6
57	Global Resolution Service for mobility support in the internet. , 2012, , .		1
58	On Performance of Cache Policy in Information-Centric Networking. , 2012, , .		18
59	AFEC: A method of aggregating forwarding equivalence classes based on overlapped paths. , 2012, , .		1
60	Umbrella: A routing choice feedback based distributed inter-domain anti-spoofing solution. , 2012, , .		0
61	VCP: A virtualization cloud platform for SDN intra-domain production network. , 2012, , .		3
62	Caching Popular BGP Prefixes with Grey Modeling Prediction. , 2011, , .		1
63	OpenRouter: OpenFlow extension and implementation based on a commercial router. , 2011, , .		11
64	A deployable approach for inter-AS anti-spoofing. , 2011, , .		8
65	Source address validation solution with OpenFlow/NOX architecture. , 2011, , .		85
66	IPv6 evolution, stability and deployment. , 2011, , .		2
67	EasyTrace: An easily-deployable light-weight IP traceback on an AS-level overlay network. , 2011, , .		0
68	AIDR: Aggregation of BGP routing table with AS path stretch. , 2011, , .		1
69	A Survey on New Architecture Design of Internet. , 2011, , .		9
70	Networking as a Service: a Cloud-based Network Architecture. Journal of Networks, 2011, 6, .	0.4	13
71	An enhanced inter-domain routing architecture. , 2011, , .		0
72	Empirical Evaluation for the Impact of Core-Edge Separation on Internet Routing Scalability. , 2010, , .		0

#	ARTICLE	IF	CITATIONS
73	A pull model IPv6 Duplicate Address Detection. , 2010, , .		12
74	A Probabilistic Marking Scheme for Fast Traceback. , 2010, , .		7
75	Study on Classification and Characteristics of Source Address Spoofing Attacks in the Internet. , 2010, , .		3
76	NOL: Name Overlay Service for Improving Internet Routing Scalability. , 2010, , .		2
77	Empirical Analysis of Core-Edge Separation by Decomposing Internet Topology Graph. , 2010, , .		7
78	Global Path Service: A new inter-domain routing scheme. , 2010, , .		1
79	Preventing IP source address spoofing: A two-level, state machine-based method. Tsinghua Science and Technology, 2009, 14, 413-422.	4.1	10
80	A Novel SeND Based Source Address Validation Mechanism (SAVM-SeND). , 2009, , .		3
81	A DHTs-Based Mapping System for Identifier and Locator Separation Network. , 2009, , .		1
82	A Shim6-Based Dynamic Path-Selection Mechanism for Multi-homing. , 2009, , .		0
83	A Trust Ranking Method to Prevent IM Spam. IEICE Transactions on Information and Systems, 2009, E92-D, 937-944.	0.4	0
84	An IPv6 Source Address Validation Testbed and Prototype Implementation. Journal of Networks, 2009, 4, .	0.4	3
85	An IPv6 Test-Bed Implementation for a Future Source Address Validation Architecture. , 2008, , .		3
86	Design and Implementation of an IPv6 Source Address Validation Device. , 2008, , .		1
87	A two-level source address spoofing prevention based on automatic signature and verification mechanism. , 2008, , .		7
88	A CGA based IP source address authentication method in IPv6 access network. , 2008, , .		2
89	Univer6 - A Universal Network Architecture for IPv6. International Conference on Advanced Communication Technology, 2008, , .	0.0	0
90	SureMsg: a XMPP-based security e-mail system. International Journal of Intelligent Information and Database Systems, 2007, 1, 199.	0.3	1

#	ARTICLE	IF	CITATIONS
91	A Trustworthy Email System Based on Instant Messaging. , 2007, , 598-609.		2
92	An approach to concurrent TTCN test generation. Journal of Computer Science and Technology, 1999, 14, 614-618.	0.9	1
93	Towards abstract test methods for relay system testing. , 1997, , 381-396.		1
94	A STREAMS based high performance IP/X.25 router. , 0, , .		0
95	A concurrent TTCN based approach to conformance testing of distributed routing protocol OSPF v2. , 0, , .		1
96	Network Capacity on-Demand. Advanced Materials Research, 0, 457-458, 102-107.	0.3	0