Olaf Maennel

List of Publications by Citations

59 papers	899 citations	17 h-index	29 g-index
69 ext. papers	1,077 ext. citations	2 avg, IF	3.82 L-index

#	Paper	IF	Citations
59	Network virtualization architecture **2009**,		119
58	Locating internet routing instabilities **2004**,		103
57	10 Lessons from 10 Years of Measuring and Modeling the Internet's Autonomous Systems. *IEEE Journal on Selected Areas in Communications*, **2011**, 29, 1810-1821	14.2	88
56	Internet optometry **2009**,		57
55	Building an AS-topology model that captures route diversity **2006**,		56
54	Locating internet routing instabilities. *Computer Communication Review*, **2004**, 34, 205-218	1.4	33
53	Building an AS-topology model that captures route diversity. *Computer Communication Review*, **2006**, 36, 195-206	1.4	32
52	HAIR **2009**,		30
51	Evolution of Internet Address Space Deaggregation: Myths and Reality. *IEEE Journal on Selected Areas in Communications*, **2010**, 28, 1238-1249	14.2	28
50	Bigfoot, sasquatch, the yeti and other missing links **2008**,		28
49	A methodology for estimating interdomain web traffic demand **2004**,		25
48	In search for an appropriate granularity to model routing policies **2007**,		22
47	Testing the reachability of (new) address space **2007**,		19
46	Realistic BGP traffic for test labs **2002**,		18
45	Measuring BGP Pass-Through Times. *Lecture Notes in Computer Science*, **2004**, 267-277	0.9	18
44	Towards detecting BGP route hijacking using the RPKI. *Computer Communication Review*, **2012**, 42, 103-104		17
43	IPv4 Address Sharing Mechanism Classification and Tradeoff Analysis. *IEEE/ACM Transactions on Networking*, **2014**, 22, 391-404	3.8	16

42	RiPKI **2015**,		13
41	Realistic BGP traffic for test labs. *Computer Communication Review*, **2002**, 32, 31-44	1.4	12
40	In search for an appropriate granularity to model routing policies. *Computer Communication Review*, **2007**, 37, 145-156	1.4	11
39	Towards detecting BGP route hijacking using the RPKI **2012**,		10
38	Impact of routing parameters on route diversity and path inflation. *Computer Networks*, **2010**, 54, 2506-2518	1.4	10
37	Creating and Detecting IPv6 Transition Mechanism-Based Information Exfiltration Covert Channels. *Lecture Notes in Computer Science*, **2016**, 85-100	0.9	8
36	Separating wheat from chaff: Winnowing unintended prefixes using machine learning **2014**,		8
35	Route Flap Damping Made Usable. *Lecture Notes in Computer Science*, **2011**, 143-152	0.9	8
34	The BGP Visibility Toolkit: Detecting Anomalous Internet Routing Behavior. *IEEE/ACM Transactions on Networking*, **2016**, 24, 1237-1250	3.8	7
33	Understanding the Reachability of IPv6 Limited Visibility Prefixes. *Lecture Notes in Computer Science*, **2014**, 163-172	0.9	6
32	Improving and Measuring Learning Effectiveness at Cyber Defense Exercises. *Lecture Notes in Computer Science*, **2017**, 123-138	0.9	5
31	An automated system for emulated network experimentation **2013**,		5
30	Network troubleshooting with Mirror VNets **2010**,		5
29	oBGP: An Overlay for a Scalable iBGP Control Plane. *Lecture Notes in Computer Science*, **2011**, 420-431	0.9	5
28	A Conceptual Nationwide Cyber Situational Awareness Framework for Critical Infrastructures. *Lecture Notes in Computer Science*, **2015**, 3-10	0.9	4
27	**2012**,		4
26	Modeling BGP Table Fluctuations **2007**, 141-153		4
25	Cyber Hygiene: The Big Picture. *Lecture Notes in Computer Science*, **2018**, 291-305	0.9	4

24	The BGP Visibility Scanner **2013**,		3
23	AutoNetkit **2012**,		3
22	Stenmap: Framework for Evaluating Cybersecurity-Related Skills Based on Computer Simulations. *Lecture Notes in Computer Science*, **2018**, 492-504	0.9	3
21	Infrastructure for Digital Calibration Certificates **2020**,		3
20	Reducing the complexity of BGP stability analysis with hybrid combinatorial-algebraic models **2012**,		2
19	AutoNetkit. *Computer Communication Review*, **2012**, 42, 97-98	1.4	2
18	CleanBGP: verifying the consistency of BGP data **2008**,		2
17	Workshop on network-I/O convergence. *Computer Communication Review*, **2003**, 33, 75-80	1.4	2
16	i-tee **2015**,		2
15	i-tee. *Computer Communication Review*, **2015**, 45, 113-114	1.4	2
14	Mixed Methods Research Approach and Experimental Procedure for Measuring Human Factors in Cybersecurity Using Phishing Simulations **2019**,		2
13	Art and Automation of Teaching Malware Reverse Engineering. *Lecture Notes in Computer Science*, **2018**, 461-472	0.9	2
12	A comprehensive instrument for identifying critical information infrastructure services. *International Journal of Critical Infrastructure Protection*, **2019**, 25, 50-61	4.1	1
11	The BGP visibility scanner **2013**,		1
10	Rethinking iBGP routing **2010**,		1
9	Rethinking iBGP routing. *Computer Communication Review*, **2010**, 40, 411-412	1.4	1
8	How to Build Complex, Large-Scale Emulated Networks. *Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering*, **2011**, 3-18	0.2	1
7	An expectation-based approach to policy-based security of the Border Gateway Protocol **2016**,		1

List of Publications

6	Using Technical Cybersecurity Exercises in University Admissions and Skill Evaluation. *IFAC-PapersOnLine*, **2019**, 52, 169-174	0.7	1
5	Using Competency Mapping for Skills Assessment in an Introductory Cybersecurity Course. *Advances in Intelligent Systems and Computing*, **2021**, 572-583	0.4	1
4	An Experimental Framework for BGP Security Evaluation. *IT - Information Technology*, **2013**, 55, 147-154	0.4	
3	Generating realistic routing tables in a test-lab. *Computer Communication Review*, **2002**, 32, 78-78	1.4	
2	Remote Technical Labs: An Innovative and Scalable Component for University Cybersecurity Program Admission. *Advances in Intelligent Systems and Computing*, **2021**, 521-533	0.4	
1	An Ontology Engineering Case Study for Advanced Digital Forensic Analysis. *Lecture Notes in Computer Science*, **2021**, 67-74	0.9	