

# Olaf Maennel

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Using Competency Mapping for Skills Assessment in an Introductory Cybersecurity Course. <i>Advances in Intelligent Systems and Computing</i> , <b>2021</b> , 572-583	0.4	1
58	Remote Technical Labs: An Innovative and Scalable Component for University Cybersecurity Program Admission. <i>Advances in Intelligent Systems and Computing</i> , <b>2021</b> , 521-533	0.4	
57	An Ontology Engineering Case Study for Advanced Digital Forensic Analysis. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 67-74	0.9	
56	Infrastructure for Digital Calibration Certificates <b>2020</b> ,		3
55	A comprehensive instrument for identifying critical information infrastructure services. <i>International Journal of Critical Infrastructure Protection</i> , <b>2019</b> , 25, 50-61	4.1	1
54	Mixed Methods Research Approach and Experimental Procedure for Measuring Human Factors in Cybersecurity Using Phishing Simulations <b>2019</b> ,		2
53	Using Technical Cybersecurity Exercises in University Admissions and Skill Evaluation. <i>IFAC-PapersOnLine</i> , <b>2019</b> , 52, 169-174	0.7	1
52	Art and Automation of Teaching Malware Reverse Engineering. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 461-472	0.9	2
51	Stenmap: Framework for Evaluating Cybersecurity-Related Skills Based on Computer Simulations. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 492-504	0.9	3
50	Cyber Hygiene: The Big Picture. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 291-305	0.9	4
49	Improving and Measuring Learning Effectiveness at Cyber Defense Exercises. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 123-138	0.9	5
48	The BGP Visibility Toolkit: Detecting Anomalous Internet Routing Behavior. <i>IEEE/ACM Transactions on Networking</i> , <b>2016</b> , 24, 1237-1250	3.8	7
47	Creating and Detecting IPv6 Transition Mechanism-Based Information Exfiltration Covert Channels. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 85-100	0.9	8
46	An expectation-based approach to policy-based security of the Border Gateway Protocol <b>2016</b> ,		1
45	A Conceptual Nationwide Cyber Situational Awareness Framework for Critical Infrastructures. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 3-10	0.9	4
44	RiPKI <b>2015</b> ,		13
43	i-tee <b>2015</b> ,		2

42	i-tee. <i>Computer Communication Review</i> , <b>2015</b> , 45, 113-114	1.4	2
41	IPv4 Address Sharing Mechanism Classification and Tradeoff Analysis. <i>IEEE/ACM Transactions on Networking</i> , <b>2014</b> , 22, 391-404	3.8	16
40	Separating wheat from chaff: Winnowing unintended prefixes using machine learning <b>2014</b> ,		8
39	Understanding the Reachability of IPv6 Limited Visibility Prefixes. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 163-172	0.9	6
38	An automated system for emulated network experimentation <b>2013</b> ,		5
37	The BGP visibility scanner <b>2013</b> ,		1
36	The BGP Visibility Scanner <b>2013</b> ,		3
35	An Experimental Framework for BGP Security Evaluation. <i>IT - Information Technology</i> , <b>2013</b> , 55, 147-154	0.4	
34	<b>2012</b> ,		4
33	AutoNetkit <b>2012</b> ,		3
32	Towards detecting BGP route hijacking using the RPKI <b>2012</b> ,		10
31	Reducing the complexity of BGP stability analysis with hybrid combinatorial-algebraic models <b>2012</b> ,		2
30	Towards detecting BGP route hijacking using the RPKI. <i>Computer Communication Review</i> , <b>2012</b> , 42, 103-104	1.4	17
29	AutoNetkit. <i>Computer Communication Review</i> , <b>2012</b> , 42, 97-98	1.4	2
28	10 Lessons from 10 Years of Measuring and Modeling the Internet's Autonomous Systems. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2011</b> , 29, 1810-1821	14.2	88
27	Route Flap Damping Made Usable. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 143-152	0.9	8
26	oBGP: An Overlay for a Scalable iBGP Control Plane. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 420-431	0.9	5
25	How to Build Complex, Large-Scale Emulated Networks. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , <b>2011</b> , 3-18	0.2	1

24	Network troubleshooting with Mirror VNets <b>2010</b> ,		5
23	Rethinking iBGP routing <b>2010</b> ,		1
22	Evolution of Internet Address Space Deaggregation: Myths and Reality. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2010</b> , 28, 1238-1249	14.2	28
21	Rethinking iBGP routing. <i>Computer Communication Review</i> , <b>2010</b> , 40, 411-412	1.4	1
20	Impact of routing parameters on route diversity and path inflation. <i>Computer Networks</i> , <b>2010</b> , 54, 2506-2518	5.4	10
19	Internet optometry <b>2009</b> ,		57
18	HAIR <b>2009</b> ,		30
17	Network virtualization architecture <b>2009</b> ,		119
16	CleanBGP: verifying the consistency of BGP data <b>2008</b> ,		2
15	Bigfoot, sasquatch, the yeti and other missing links <b>2008</b> ,		28
14	In search for an appropriate granularity to model routing policies <b>2007</b> ,		22
13	Testing the reachability of (new) address space <b>2007</b> ,		19
12	In search for an appropriate granularity to model routing policies. <i>Computer Communication Review</i> , <b>2007</b> , 37, 145-156	1.4	11
11	Modeling BGP Table Fluctuations <b>2007</b> , 141-153		4
10	Building an AS-topology model that captures route diversity. <i>Computer Communication Review</i> , <b>2006</b> , 36, 195-206	1.4	32
9	Building an AS-topology model that captures route diversity <b>2006</b> ,		56
8	Locating internet routing instabilities <b>2004</b> ,		103
7	A methodology for estimating interdomain web traffic demand <b>2004</b> ,		25

6	Locating internet routing instabilities. <i>Computer Communication Review</i> , <b>2004</b> , 34, 205-218	1.4	33
5	Measuring BGP Pass-Through Times. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 267-277	0.9	18
4	Workshop on network-I/O convergence. <i>Computer Communication Review</i> , <b>2003</b> , 33, 75-80	1.4	2
3	Realistic BGP traffic for test labs <b>2002</b> ,		18
2	Realistic BGP traffic for test labs. <i>Computer Communication Review</i> , <b>2002</b> , 32, 31-44	1.4	12
1	Generating realistic routing tables in a test-lab. <i>Computer Communication Review</i> , <b>2002</b> , 32, 78-78	1.4	