

Yuval Shavitt

List of Publications by Year in descending order

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114
papers

3,681
citations

279701

23
h-index

155592

55
g-index

116
all docs

116
docs citations

116
times ranked

2210
citing authors

#	ARTICLE	IF	CITATIONS
1	SASA: Source-Aware Self-Attention for IP Hijack Detection. IEEE/ACM Transactions on Networking, 2022, 30, 437-449.	2.6	2
2	Fast and lean encrypted Internet traffic classification. Computer Communications, 2022, 186, 166-173.	3.1	15
3	AP2Vec: An Unsupervised Approach for BGP Hijacking Detection. IEEE Transactions on Network and Service Management, 2022, 19, 2255-2268.	3.2	2
4	BGP2Vec: Unveiling the Latent Characteristics of Autonomous Systems. IEEE Transactions on Network and Service Management, 2022, 19, 4516-4530.	3.2	1
5	Risk Aware Stochastic Placement of Cloud Services. IEEE/ACM Transactions on Networking, 2021, 29, 805-820.	2.6	0
6	FlowPic: A Generic Representation for Encrypted Traffic Classification and Applications Identification. IEEE Transactions on Network and Service Management, 2021, 18, 1218-1232.	3.2	57
7	Prediction of wastewater treatment quality using LSTM neural network. Environmental Technology and Innovation, 2021, 23, 101632.	3.0	34
8	Unveiling the Type of Relationship Between Autonomous Systems Using Deep Learning. , 2020, , .		4
9	A Deep Learning Approach for IP Hijack Detection Based on ASN Embedding. , 2020, , .		7
10	Cellular Networks With Vehicular Relay Nodes: Capacity, Coverage, and Scalability. IEEE Transactions on Vehicular Technology, 2019, 68, 9074-9087.	3.9	2
11	FlowPic: Encrypted Internet Traffic Classification is as Easy as Image Recognition. , 2019, , .		73
12	Risk Aware Stochastic Placement of Cloud Services: The Multiple Data Center Case. Lecture Notes in Computer Science, 2018, , 138-156.	1.0	2
13	Risk Aware Stochastic Placement of Cloud Services: The Case of Two Data Centers. Lecture Notes in Computer Science, 2018, , 59-88.	1.0	3
14	China's Maxim "Leave No Access Point Unexploited: The Hidden Story of China Telecom's BGP Hijacking. Military Cyber Affairs, 2018, 3, .	0.1	15
15	On Network Neutrality Measurements. ACM Transactions on Intelligent Systems and Technology, 2017, 8, 1-22.	2.9	8
16	The Role of Temporal Trends in Growing Networks. PLoS ONE, 2016, 11, e0156505.	1.1	15
17	Peer-to-peer information retrieval using shared-content clustering. Knowledge and Information Systems, 2014, 39, 383-408.	2.1	4
18	Sensing clouds: A distributed cooperative target tracking with tiny binary noisy sensors. Ad Hoc Networks, 2013, 11, 2356-2366.	3.4	5

#	ARTICLE	IF	CITATIONS
19	Improving AS relationship inference using PoPs. , 2013, , .		1
20	On the Presence of Child Sex Abuse in BitTorrent Networks. IEEE Internet Computing, 2013, 17, 60-66.	3.2	5
21	Inferring the periodicity in large-scale Internet measurements. , 2013, , .		7
22	Improving AS relationship inference using PoPs. , 2013, , .		0
23	Internet PoP Level Maps. Lecture Notes in Computer Science, 2013, , 82-103.	1.0	3
24	Efficient retrieval of recommendations in a matrix factorization framework. , 2012, , .		45
25	Topological trends of internet content providers. , 2012, , .		11
26	Arabian nights: measuring the arab internet during the 2011 events. IEEE Network, 2012, 26, 75-80.	4.9	7
27	An analysis of the Steam community network evolution. , 2012, , .		21
28	Diffusion Centrality in Social Networks. , 2012, , .		12
29	RAGE â€” A rapid graphlet enumerator for large networks. Computer Networks, 2012, 56, 810-819.	3.2	55
30	Measuring the validity of peer-to-peer data for information retrieval applications. Computer Networks, 2012, 56, 1092-1102.	3.2	3
31	A structural approach for PoP geo-location. Computer Networks, 2012, 56, 1029-1040.	3.2	25
32	Detecting Pedophile Activity in BitTorrent Networks. Lecture Notes in Computer Science, 2012, , 106-115.	1.0	11
33	Geographical Internet PoP Level Maps. Lecture Notes in Computer Science, 2012, , 121-124.	1.0	8
34	Performance of concurrent multipath transmissions â€” Measurements and model validation. , 2011, , .		3
35	Mining Music from Large-Scale, Peer-to-Peer Networks. IEEE MultiMedia, 2011, 18, 14-23.	1.5	7
36	A Geolocation Databases Study. IEEE Journal on Selected Areas in Communications, 2011, 29, 2044-2056.	9.7	112

#	ARTICLE	IF	CITATIONS
37	Counting Stars and Other Small Subgraphs in Sublinear-Time. SIAM Journal on Discrete Mathematics, 2011, 25, 1365-1411.	0.4	40
38	Guest Editorial Measurement of Internet Topologies. IEEE Journal on Selected Areas in Communications, 2011, 29, 1761-1764.	9.7	0
39	Quantifying the Importance of Vantage Point Distribution in Internet Topology Mapping (Extended) Tj ETQq1 1 0.784314 rgBT /Overl	9.7	6
40	Approximating the Statistics of various Properties in Randomly Weighted Graphs. , 2011, , .		2
41	Multipath Routing Slice Experiments in Federated Testbeds. Lecture Notes in Computer Science, 2011, , 247-258.	1.0	3
42	A framework for extracting musical similarities from peer-to-peer networks. , 2010, , .		2
43	Limitations and Possibilities of Path Trading between Autonomous Systems. , 2010, , .		4
44	Efficient Counting of Network Motifs. , 2010, , .		20
45	The 2nd workshop on active internet measurements (AIMS-2) report. Computer Communication Review, 2010, 40, 53-58.	1.5	1
46	Building recommendation systems using peer-to-peer shared content. , 2010, , .		3
47	A distributed cooperative target tracking. , 2010, , .		1
48	Applying clustering algorithms on Peer-to-Peer networks for content searching and recommendation. , 2010, , .		3
49	A Structural Approach for PoP Geo-Location. , 2010, , .		21
50	On the Diversity, Stability and Symmetry of End-to-End Internet Routes. , 2010, , .		24
51	A Measurement Study of the Origins of End-to-End Delay Variations. Lecture Notes in Computer Science, 2010, , 21-30.	1.0	15
52	Counting Stars and Other Small Subgraphs in Sublinear Time. , 2010, , .		6
53	Bringing order to BGP: Decreasing time and message complexity. Computer Networks, 2009, 53, 2241-2256.	3.2	3
54	A -approximation for the set cover problem with set ownership. Information Processing Letters, 2009, 109, 183-186.	0.4	7

#	ARTICLE	IF	CITATIONS
55	On the feasibility of a large scale distributed testbed for measuring quality of path characteristics in the Internet. , 2009, , .		3
56	Near-Deterministic Inference of AS Relationships. , 2009, , .		11
57	Minimizing Recovery State in Geographic Ad Hoc Routing. IEEE Transactions on Mobile Computing, 2009, 8, 203-217.	3.9	33
58	Stability and Symmetry of Internet Routing. , 2009, , .		4
59	Song Clustering Using Peer-to-Peer Co-occurrences. , 2009, , .		12
60	Predicting Billboard Success Using Data-Mining in P2P Networks. , 2009, , .		13
61	Approximating the Number of Network Motifs. Internet Mathematics, 2009, 6, 349-372.	0.7	18
62	Approximating the Number of Network Motifs. Lecture Notes in Computer Science, 2009, , 13-24.	1.0	8
63	SoMR: A scalable distributed QoS multicast routing protocol. Journal of Parallel and Distributed Computing, 2008, 68, 137-149.	2.7	13
64	A Study on Gossiping in Transportation Networks. IEEE Transactions on Vehicular Technology, 2008, 57, 2602-2607.	3.9	5
65	Competitive analysis of buffer policies with SLA commitments. Network Protocols (ICNP), Proceedings of the IEEE International Conference on, 2008, , .	0.0	1
66	Centralized and Distributed Algorithms for Routing and Weighted Max-Min Fair Bandwidth Allocation. IEEE/ACM Transactions on Networking, 2008, 16, 1015-1024.	2.6	50
67	Hyperbolic Embedding of Internet Graph for Distance Estimation and Overlay Construction. IEEE/ACM Transactions on Networking, 2008, 16, 25-36.	2.6	85
68	Unifying Unknown Nodes in the Internet Graph Using Semisupervised Spectral Clustering. , 2008, , .		3
69	Spotting out emerging artists using geo-aware analysis of P2P query strings. , 2008, , .		9
70	Trading potatoes in distributed multi-tier routing systems. , 2008, , .		4
71	Automatic Large Scale Generation of Internet PoP Level Maps. , 2008, , .		21
72	On the benefits of cheating by self-interested agents in vehicular networks. , 2007, , .		6

#	ARTICLE	IF	CITATIONS
73	Bringing order to BGP. , 2007, , .		5
74	Beyond centralityâ€™ classifying topological significance using backup efficiency and alternative paths. New Journal of Physics, 2007, 9, 266-266.	1.2	14
75	An Optimal Median Calculation Algorithm for Estimating Internet Link Delays from Active Measurements. , 2007, , .		8
76	A model of Internet topology using k-shell decomposition. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 11150-11154.	3.3	612
77	A Simulation Study of Multi-Color Marking of TCP Aggregates. , 2007, , .		2
78	Approximation and Heuristic Algorithms for Minimum-Delay Application-Layer Multicast Trees. IEEE/ACM Transactions on Networking, 2007, 15, 473-484.	2.6	40
79	Analysis of Shared Memory Priority Queues with Two Discard Levels. IEEE Network, 2007, 21, 46-50.	4.9	6
80	Beyond Centrality - Classifying Topological Significance Using Backup Efficiency and Alternative Paths. Lecture Notes in Computer Science, 2007, , 774-785.	1.0	5
81	On multicast trees: structure and size estimation. IEEE/ACM Transactions on Networking, 2006, 14, 557-567.	2.6	16
82	Efficient QoS Partition and Routing of Unicast and Multicast. IEEE/ACM Transactions on Networking, 2006, 14, 1336-1347.	2.6	21
83	Analysis of Shared Memory Priority Queues with Two Discard Levels. , 2006, , .		2
84	Internet resiliency to attacks and failures under BGP policy routing. Computer Networks, 2006, 50, 3183-3196.	3.2	50
85	A comparison of token-bucket based multi-color marking techniques. , 2006, , .		1
86	Minimizing recovery state In geographic ad-hoc routing. , 2006, , .		17
87	A practical revocation scheme for broadcast encryption using smartcards. ACM Transactions on Information and System Security, 2006, 9, 325-351.	4.5	14
88	Tomography of scale-free networks and shortest path trees. Physical Review E, 2006, 74, 066108.	0.8	16
89	Achieving Bursty Traffic Guarantees by Integrating Traffic Engineering and Buffer Management Tools. Lecture Notes in Computer Science, 2006, , 63-74.	1.0	0
90	Distributive immunization of networks against viruses using the â€™honey-potâ€™ architecture. Nature Physics, 2005, 1, 184-188.	6.5	71

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91	Optimal Routing in Gossip Networks. IEEE Transactions on Vehicular Technology, 2005, 54, 1473-1487.	3.9	13
92	DIMES. Computer Communication Review, 2005, 35, 71-74.	1.5	320
93	Distributed Council Election. IEEE/ACM Transactions on Networking, 2004, 12, 483-492.	2.6	6
94	On the Economics of Multicasting. NETNOMICS: Economic Research and Electronic Networking, 2004, 6, 1-20.	0.9	3
95	Big-Bang Simulation for Embedding Network Distances in Euclidean Space. IEEE/ACM Transactions on Networking, 2004, 12, 993-1006.	2.6	76
96	Computing the Unmeasured: An Algebraic Approach to Internet Mapping. IEEE Journal on Selected Areas in Communications, 2004, 22, 67-78.	9.7	23
97	Maximum Flow Routing with Weighted Max-Min Fairness. Lecture Notes in Computer Science, 2004, , 278-287.	1.0	12
98	SNMP GetPrev: an efficient way to browse large MIB tables. IEEE Journal on Selected Areas in Communications, 2002, 20, 656-667.	9.7	18
99	Constrained mirror placement on the Internet. IEEE Journal on Selected Areas in Communications, 2002, 20, 1369-1382.	9.7	114
100	New models and algorithms for programmable networks. Computer Networks, 2002, 38, 311-326.	3.2	7
101	Topology aggregation for directed graphs. IEEE/ACM Transactions on Networking, 2001, 9, 82-90.	2.6	57
102	IDMaps: a global Internet host distance estimation service. IEEE/ACM Transactions on Networking, 2001, 9, 525-540.	2.6	333
103	The active process interaction with its environment. Computer Networks, 2001, 36, 21-34.	3.2	12
104	The effect of network hierarchy structure on performance of ATM PNNI hierarchical routing. Computer Communications, 2000, 23, 980-986.	3.1	16
105	Key management for restricted multicast using broadcast encryption. IEEE/ACM Transactions on Networking, 2000, 8, 443-454.	2.6	57
106	The cache location problem. IEEE/ACM Transactions on Networking, 2000, 8, 568-582.	2.6	292
107	A QoS-aware multicast routing protocol. IEEE Journal on Selected Areas in Communications, 2000, 18, 2580-2592.	9.7	91
108	An Active Network Approach to Efficient Network Management. Lecture Notes in Computer Science, 1999, , 220-231.	1.0	37

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109	Analysis of multi-path routing. IEEE/ACM Transactions on Networking, 1999, 7, 885-896.	2.6	185
110	Towards Making Broadcast Encryption Practical. Lecture Notes in Computer Science, 1999, , 140-157.	1.0	14
111	Improved fairness algorithms for rings with spatial reuse. IEEE/ACM Transactions on Networking, 1997, 5, 190-204.	2.6	28
112	Analysis of one-way reservation algorithms. Journal of High Speed Networks, 1996, 5, 347-363.	0.6	4
113	Message terminating algorithms for anonymous rings of unknown size. Information Processing Letters, 1995, 54, 111-119.	0.4	11
114	Message terminate algorithms for anonymous rings of unknown size. Lecture Notes in Computer Science, 1992, , 264-276.	1.0	3