Steven Weber

List of Publications by Year
in descending order

56 papers	707 citations	1040056
		9 h-index

839539

18
g-index

| 56 all docs | 56 docs citations | 56 times ranked | 615 citing authors |

#	Article	IF	Citations
1	The Effect of Fading, Channel Inversion, and Threshold Scheduling on *Ad Hoc* Networks. IEEE Transactions on Information Theory, 2007, 53, 4127-4149.	2.4	334
2	Optimal Rate–Delay Tradeoffs and Delay Mitigating Codes for Multipath Routed and Network Coded Networks. IEEE Transactions on Information Theory, 2009, 55, 5491-5510.	2.4	81
3	Two-Way Transmission Capacity of Wireless Ad-hoc Networks. IEEE Transactions on Wireless Communications, 2011, 10, 1966-1975.	9.2	37
4	Facilitating Adoption of Internet Technologies and Services with Externalities via Cost Subsidization. ACM Transactions on Internet Technology, 2017, 17, 1-29.	4.4	22
5	Behavioral anomaly detection of malware on home routers. , 2017, , .		21
6	Multilevel Diversity Coding Systems: Rate Regions, Codes, Computation, & Forbidden Minors. IEEE Transactions on Information Theory, 2017, 63, 230-251.	2.4	19
7	Delay minimizing user association in cellular networks via hierarchically well-separated trees. , 2015, , .		14
8	On Multi-Source Networks: Enumeration, Rate Region Computation, and Hierarchy. IEEE Transactions on Information Theory, 2017, 63, 7283-7303.	2.4	14
9	A Concatenated Network Coding Scheme for Multimedia Transmission. , 2008, , .		10
10	Preemption rates for a parallel link loss network. Performance Evaluation, 2009, 66, 21-46.	1.2	10
11	Capacity region of the permutation channel. , 2008, , .		9
12	Overhead Performance Tradeoffs–A Resource Allocation Perspective. IEEE Transactions on Information Theory, 2016, 62, 3243-3269.	2.4	9
13	On Protocol and Physical Interference Models in Poisson Wireless Networks. IEEE Transactions on Wireless Communications, 2018, 17, 808-821.	9.2	9
14	Optimal rate delay tradeoffs for multipath routed and network coded networks. , 2008, , .		8
15	Relationships among bounds for the region of entropic vectors in four variables. , 2010, , .		7
16	OMAN: A Mobile Ad Hoc Network Design System. IEEE Transactions on Mobile Computing, 2012, 11, 1179-1191.	5.8	7
17	Distributed Algorithms for Rate-Adaptive Media Streams. Networks and Spatial Economics, 2008, 8, 61-94.	1.6	6
18	On the Aloha throughput-fairness tradeoff. IEEE Transactions on Information Theory, 2017, , 1-1.	2.4	6

#	Article	IF	Citations
19	Transmission capacity of wireless ad hoc networks with channel variations. , 2006, , .		5
20	Admission control and preemption policy design of multi-class computer networks. , 2010, , .		5
21	Adoption of Bundled Services with Network Externalities and Correlated Affinities. ACM Transactions on Internet Technology, 2014, 14, 1-32.	4.4	5
22	Delay on Broadcast Erasure Channels Under Random Linear Combinations. IEEE Transactions on Information Theory, 2017, 63, 1631-1661.	2.4	5
23	The value of observations in predicting transmission success in wireless networks under slotted Aloha. , 2017, , .		5
24	Malware Anomaly Detection on Virtual Assistants. , 2018, , .		5
25	Geometric approximations of some Aloha-like stability regions. , 2010, , .		4
26	Two-way transmission capacity of wireless ad-hoc networks. , 2010, , .		4
27	Impact of sample size on false alarm and missed detection rates in PCA-based anomaly detection. , 2017, , .		4
28	Efficiency and Detectability of Random Reactive Jamming in Wireless Networks. , 2018, , .		4
29	Facilitating Adoption of Services with Positive Externalities via Subsidies. Performance Evaluation Review, 2014, 42, 16-19.	0.6	4
30	A recursive construction of the set of binary entropy vectors. , 2009, , .		3
31	Distributed scalar quantizers for subband allocation. , 2014, , .		3
32	Minimizing the Bayes risk of the protocol interference model in wireless Poisson networks. , 2016, , .		3
33	Sum throughput on a random access erasure collision channel. , 2019, , .		3
34	On the incompatibility of connectivity and local pooling in Erd&#x0151;s-R&#x00E9;nyi Graphs. , 2013, , .		2
35	Properties of an Aloha-like stability region. IEEE Transactions on Information Theory, 2016, , 1-1.	2.4	2
36	A Markov chain model for the search time for max degree nodes in a graph using a biased random walk. , 2016, , .		2

#	Article	IF	Citations
37	On the performance overhead tradeoff of distributed principal component analysis via data partitioning. , 2016, , .		2
38	A Slotted Aloha Message Concentration Protocol for Wireless Sensor Networks. , 2017, , .		2
39	Participation incentives on a wireless random access erasure collision channel. , 2017, , .		2
40	Efficiency and Detectability of Random Reactive Jamming in Carrier Sense Wireless Networks. IEEE Transactions on Communications, 2019, 67, 6925-6938.	7.8	2
41	Random access channel assignment on a collision erasure channel. , 2020, , .		2
42	Heavy traffic analysis of a multi-class loss link with preemption. , 2007, , .		1
43	System for controlled testing of sensor networks. , 2010, , .		1
44	The self-avoiding walk-jump (SAWJ) algorithm for finding maximum degree nodes in large graphs. , 2016, , .		1
45	The stability transition graph under cascade dynamics for social network subscription services. , 2016, , .		1
46	Interactive Scalar Quantization for Distributed Resource Allocation. IEEE Transactions on Signal Processing, 2016, 64, 1243-1256.	5.3	1
47	On the number of star samples to find a vertex or edge with given degree in a graph. , 2017, , .		1
48	RTS/CTS Data Link Abstractions for Mobile Ad Hoc Networks. , 2006, , .		0
49	Performance and Scaling of Wireless Ad Hoc IPv6 Stateless Address Autoconfiguration under Mobile Gateways. , 2007, , .		0
50	Channel dependent adaptive modulation and coding without channel state information at the transmitter. , 2013, , .		0
51	Primal-Dual Characterizations of Jointly Optimal Transmission Rate and Scheme for Distributed Sources. , 2014, , .		0
52	A primal-dual approach to delay minimizing user association in cellular networks. , 2015, , .		0
53	Participation Incentives on a Wireless Random Access Erasure Collision Channel. , 2018, , .		0
54	Common greedy wiring and rewiring heuristics do not guarantee maximum assortative graphs of given degree. Information Processing Letters, 2018, 139, 53-59.	0.6	0

#	Article	IF	Citations
55	Transmission Capacity. , 2018, , 1-4.		0
56	Transmission Capacity. , 2020, , 1408-1411.		0