

# Liansheng Tan

## List of Publications by Year in descending order

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69  
papers

1,237  
citations

393982

19  
h-index

377514

34  
g-index

69  
all docs

69  
docs citations

69  
times ranked

1194  
citing authors

#	ARTICLE	IF	CITATIONS
1	Data prediction, compression, and recovery in clustered wireless sensor networks for environmental monitoring applications. <i>Information Sciences</i> , 2016, 329, 800-818.	4.0	198
2	A Structure Fidelity Approach for Big Data Collection in Wireless Sensor Networks. <i>Sensors</i> , 2015, 15, 248-273.	2.1	94
3	Utility Maximization Resource Allocation in Wireless Networks: Methods and Algorithms. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2015, 45, 1018-1034.	5.9	90
4	Stability of TCP/RED Systems in AQM Routers. <i>IEEE Transactions on Automatic Control</i> , 2006, 51, 1393-1398.	3.6	88
5	Data Reduction in Wireless Sensor Networks: A Hierarchical LMS Prediction Approach. <i>IEEE Sensors Journal</i> , 2016, 16, 1708-1715.	2.4	82
6	Tomofanout: a novel approach for large-scale IP traffic matrix estimation with excellent accuracy. <i>Annales Des Telecommunications/Annals of Telecommunications</i> , 2015, 70, 149-158.	1.6	54
7	FAST TCP: fairness and queuing issues. <i>IEEE Communications Letters</i> , 2005, 9, 762-764.	2.5	40
8	Energy Harvesting Wireless Sensor Node With Temporal Death: Novel Models and Analyses. <i>IEEE/ACM Transactions on Networking</i> , 2017, 25, 896-909.	2.6	36
9	Price-based max-min fair rate allocation in wireless multi-hop networks. <i>IEEE Communications Letters</i> , 2006, 10, 31-33.	2.5	35
10	Efficiency-fairness tradeoff in telecommunications networks. <i>IEEE Communications Letters</i> , 2005, 9, 643-645.	2.5	32
11	On Parameter Tuning for FAST TCP. <i>IEEE Communications Letters</i> , 2007, 11, 458-460.	2.5	32
12	Reward Rate Maximization and Optimal Transmission Policy of EH Device With Temporal Death in EH-WSNs. <i>IEEE Transactions on Wireless Communications</i> , 2017, 16, 1157-1167.	6.1	30
13	Adaptive Range-Based Target Localization Using Diffusion Gauss-Newton Method in Industrial Environments. <i>IEEE Transactions on Industrial Informatics</i> , 2019, 15, 5919-5930.	7.2	30
14	Traffic matrix estimation: A neural network approach with extended input and expectation maximization iteration. <i>Journal of Network and Computer Applications</i> , 2016, 60, 220-232.	5.8	26
15	Throughput of FAST TCP in Asymmetric Networks. <i>IEEE Communications Letters</i> , 2008, 12, 158-160.	2.5	25
16	To be fair or efficient or a bit of both. <i>Computers and Operations Research</i> , 2008, 35, 3787-3806.	2.4	23
17	Rate-based congestion control in ATM switching networks using a recursive digital filter. <i>Control Engineering Practice</i> , 2003, 11, 1171-1181.	3.2	22
18	An Intelligent Adaptive Algorithm for Environment Parameter Estimation in Smart Cities. <i>IEEE Access</i> , 2018, 6, 23325-23337.	2.6	20

#	ARTICLE	IF	CITATIONS
19	Dynamic queue level control of TCP/RED systems in AQM routers. Computers and Electrical Engineering, 2009, 35, 59-70.	3.0	19
20	Optimal Cloud Resource Allocation With Cost Performance Tradeoff Based on Internet of Things. IEEE Internet of Things Journal, 2019, 6, 6876-6886.	5.5	17
21	A Novel Method to Estimate IP Traffic Matrix. IEEE Communications Letters, 2007, 11, 907-909.	2.5	16
22	Optimal Resource Allocation with Principle of Equality and Diminishing Marginal Utility in Wireless Networks. Wireless Personal Communications, 2015, 84, 671-693.	1.8	15
23	Architecture design for internet-based control systems. International Journal of Automation and Computing, 2004, 1, 1-9.	4.5	13
24	A graph-based proactive fault identification approach in computer networks. Computer Communications, 2005, 28, 366-378.	3.1	13
25	LAMOR: Lifetime-Aware Multipath Optimized Routing Algorithm for Video Transmission over Ad Hoc Networks. , 0, , .		12
26	Scalable parameter tuning for AVQ. IEEE Communications Letters, 2005, 9, 90-92.	2.5	10
27	A Balanced Serial K-Means Based Clustering Protocol for Wireless Sensor Networks. , 2008, , .		10
28	On control gain selection in dynamic-RED. IEEE Communications Letters, 2005, 9, 81-83.	2.5	9
29	A price-based internet congestion control scheme. IEEE Communications Letters, 2008, 12, 331-333.	2.5	9
30	On utility-optimized router-level bandwidth allocation. Transactions on Emerging Telecommunications Technologies, 2013, 24, 303-316.	2.6	9
31	On IP Traffic Matrix Estimation. , 2007, , .		8
32	A novel approach for bandwidth allocation among soft QoS traffic in wireless networks. Transactions on Emerging Telecommunications Technologies, 2014, 25, 479-484.	2.6	8
33	PCA-Guided Routing Algorithm for Wireless Sensor Networks. Journal of Computer Networks and Communications, 2012, 2012, 1-10.	1.2	8
34	Adaptive bandwidth allocation for metropolitan and wide-area networks. IEEE Communications Letters, 2005, 9, 561-563.	2.5	7
35	Error-aware and energy-efficient routing approach in MANETs. International Journal of Communication Systems, 2009, 22, 37-51.	1.6	7
36	Stability of TCP/AQM Networks Under DDoS Attacks With Design. IEEE Transactions on Network Science and Engineering, 2020, 7, 3042-3056.	4.1	7

#	ARTICLE	IF	CITATIONS
37	An approach for controller fault detection. , 0, , .		6
38	A consolidation algorithm for multicast service using proportional control and neural network predictive techniques. Computer Communications, 2005, 29, 114-122.	3.1	6
39	Improving FAST TCP Performance in Asymmetric Networks. , 2007, , .		6
40	Traffic matrix estimation: Advanced tomography method based on a precise gravity model. International Journal of Communication Systems, 2015, 28, 1709-1728.	1.6	6
41	Erlangian approximation to finite time probability of blocking time of multi-class OBS nodes. Photonic Network Communications, 2015, 30, 167-177.	1.4	6
42	Analysis of Blocking Probability of Multi-Class OBS With General Burst Size Distribution. IEEE Communications Letters, 2016, 20, 2153-2156.	2.5	6
43	Blocking performance approximation in flexi-grid networks. Optical Fiber Technology, 2016, 32, 58-65.	1.4	6
44	An adaptive distributed parameter estimation approach in incremental cooperative wireless sensor networks. AEU - International Journal of Electronics and Communications, 2017, 79, 307-316.	1.7	5
45	Single-wavelength optical buffers with general burst size distribution: Blocking probability and mean delay. Optical Switching and Networking, 2018, 27, 1-6.	1.2	5
46	An optimal solution to resource allocation among soft QoS traffic in wireless network. International Journal of Communication Systems, 2014, 27, 2642-2657.	1.6	4
47	An improved incremental least-mean-squares algorithm for distributed estimation over wireless sensor networks. International Journal of Distributed Sensor Networks, 2017, 13, 155014771770396.	1.3	4
48	A resource-based admission control algorithm for grid computing systems. , 0, , .		3
49	Active-time Based Bandwidth Allocation for Multi-hop Wireless Ad Hoc Networks. , 2006, , .		3
50	Modeling and performance analysis of energy harvesting wireless communication systems with reliable energy backup. International Journal of Communication Systems, 2021, 34, e4698.	1.6	3
51	Optimal Energy Supplementary and Data Transmission Schedule for Energy Harvesting Transmitter With Reliable Energy Backup. IEEE Access, 2020, 8, 161838-161846.	2.6	2
52	Blocking and delay analysis of single-wavelength optical buffer with delay constrained packets. Photonic Network Communications, 2018, 35, 11-19.	1.4	2
53	On the Harary index of cacti. Filomat, 2014, 28, 493-507.	0.2	2
54	Congestion control of high speed computer networks: A PID method. , 2003, , .		1

#	ARTICLE	IF	CITATIONS
55	Price-based Max-Min Fair Rate Allocation in Wireless Multi-hop Networks. , 2005, , .		1
56	Traffic Modeling with Bernoulli Shift Map. , 2009, , .		1
57	FAST TCP performance under perturbation imposed queueing delay in equilibrium. , 2010, , .		1
58	A dynamic selection algorithm for extending the lifetime of two-tiered sensor network. , 2010, , .		1
59	Latency of FAST TCP for HTTP Transactions. IEEE Communications Letters, 2011, 15, 1259-1261.	2.5	1
60	On blocking time in multi-class optical burst switching nodes. International Journal of Communication Systems, 2017, 30, e3128.	1.6	1
61	Link Scheduling and End-to-End Throughput Optimization in Wireless Multi-Hop Networks. IEEE Open Journal of the Computer Society, 2021, 2, 393-406.	5.2	1
62	Scalable parameter tuning for AVQ. IEEE Communications Letters, 2005, 9, 90-92.	2.5	0
63	On Congestion Control in Multicast Networks. , 2005, , .		0
64	Research of Multicast Server Selection Based on Ant Algorithm. , 2005, , .		0
65	Transient Performance of Router Queue with FAST TCP Flows. , 2009, , .		0
66	COTE: A Clustering Scheme with Optimal Tiers and Energy Efficiency in Wireless Sensor Networks. , 2010, , .		0
67	ATU: An Aggregate-Then-Update Diffusion Intelligent Estimation Scheme for Adaptive Networked Systems. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, , 1-12.	5.9	0
68	Stability of SDE-LJN System in the Internet to Mitigate Constant-Rate DDoS Attacks. Security and Communication Networks, 2021, 2021, 1-17.	1.0	0
69	Stochastic modeling and performance analysis of video streaming system over IP networks. Multimedia Systems, 0, , 1.	3.0	0