Danny H K Tsang

List of Publications by Year
in descending order

101 papers	2,404 citations	257450 24 h-index	265206 42 g-index
101 all docs	101 docs citations	101 times ranked	2457 citing authors

#	Article	IF	Citations
1	Dynamic Pricing Mechanism Design for Electric Mobility-on-Demand Systems. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 11361-11375.	8.0	7
2	Energy-Efficient Resource Allocation and Subchannel Assignment for NOMA-Enabled Multiaccess Edge Computing. IEEE Systems Journal, 2022, 16, 1558-1569.	4.6	13
3	Data-Driven Coordinated Charging for Electric Vehicles With Continuous Charging Rates: A Deep Policy Gradient Approach. IEEE Internet of Things Journal, 2022, 9, 12395-12412.	8.7	14
4	Performance Analysis of Mobile Cloud Computing With Bursty Demand: A Tandem Queue Model. IEEE Transactions on Vehicular Technology, 2022, 71, 9951-9966.	6.3	2
5	Aggregation of Demand-Side Flexibility in Electricity Markets: Negative Impact Analysis and Mitigation Method. IEEE Transactions on Smart Grid, 2021, 12, 774-786.	9.0	19
6	Inventory Planning and Real-Time Routing for Network of Electric Vehicle Battery-Swapping Stations. IEEE Transactions on Transportation Electrification, 2021, 7, 542-553.	7.8	19
7	Enhancing Ambient Backscatter Communication Utilizing Coherent and Non-Coherent Space-Time Codes. IEEE Transactions on Wireless Communications, 2021, 20, 6884-6897.	9.2	17
8	<i>Not Taken for Granted:</i> Configuring Scalable Live Video Streaming Under Throughput Fluctuations in Mobile Edge Networks. IEEE Transactions on Vehicular Technology, 2021, 70, 2771-2782.	6.3	2
9	Latency Optimization for Computation Offloading With Hybrid NOMAâ€"OMA Transmission. IEEE Internet of Things Journal, 2021, 8, 6677-6691.	8.7	16
10	Real-Time Coordination of Transmission and Distribution Networks via Nash Bargaining Solution. IEEE Transactions on Sustainable Energy, 2021, 12, 2238-2254.	8.8	8
11	On Power-Peak-Aware Scheduling for Large-Scale Shared Clusters. IEEE Transactions on Big Data, 2020, 6, 412-426.	6.1	8
12	Posted-Price Retailing of Transactive Energy: An Optimal Online Mechanism Without Prediction. IEEE Journal on Selected Areas in Communications, 2020, 38, 5-16.	14.0	10
13	NOMA-Enabled Mobile Edge Computing for Internet of Things via Joint Communication and Computation Resource Allocations. IEEE Internet of Things Journal, 2020, 7, 718-733.	8.7	72
14	Burstable Instances for Clouds: Performance Modeling, Equilibrium Analysis, and Revenue Maximization. IEEE/ACM Transactions on Networking, 2020, 28, 2489-2502.	3.8	5
15	Online Combinatorial Auctions for Resource Allocation With Supply Costs and Capacity Limits. IEEE Journal on Selected Areas in Communications, 2020, 38, 655-668.	14.0	21
16	Competitive Algorithms for the Online Multiple Knapsack Problem with Application to Electric Vehicle Charging. Proceedings of the ACM on Measurement and Analysis of Computing Systems, 2020, 4, 1-32.	1.8	18
17	ORC. , 2020, , .		9
18	Eliciting Multi-Dimensional Flexibilities From Electric Vehicles: A Mechanism Design Approach. IEEE Transactions on Power Systems, 2019, 34, 4038-4047.	6.5	18

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19	Energy-efficient Resource Allocation and Channel Assignment for NOMA-based Mobile Edge Computing. , 2019, , .		9
20	Optimal battery purchasing and charging strategy at electric vehicle battery swap stations. European Journal of Operational Research, 2019, 279, 524-539.	5.7	77
21	Burstable Instances for Clouds: Performance Modeling, Equilibrium Analysis, and Revenue Maximization. , 2019, , .		13
22	Optimal Scheduling of Battery Charging Station Serving Electric Vehicles Based on Battery Swapping. IEEE Transactions on Smart Grid, 2019, 10, 1372-1384.	9.0	105
23	Rank-One Solutions for SDP Relaxation of QCQPs in Power Systems. IEEE Transactions on Smart Grid, 2019, 10, 5-15.	9.0	18
24	Decentralized and Optimal Resource Cooperation in Geo-Distributed Mobile Cloud Computing. IEEE Transactions on Emerging Topics in Computing, 2018, 6, 72-84.	4.6	50
25	Contract Design for Aggregating, Trading, and Distributing Reserves in Demand-Side Frequency Regulation. IEEE Transactions on Industrial Informatics, 2018, 14, 2539-2549.	11.3	12
26	Asymptotic performance evaluation of battery swapping and charging station for electric vehicles. Performance Evaluation, 2018, 119, 43-57.	1.2	30
27	Optimal power dispatch of a centralised electric vehicle battery charging station with renewables. IET Communications, 2018, 12, 579-585.	2.2	22
28	A Two-Stage Approach for Network Constrained Unit Commitment Problem With Demand Response. IEEE Transactions on Smart Grid, 2018, 9, 1175-1183.	9.0	48
29	Optimal Scheduling for Electric Vehicle Charging With Discrete Charging Levels in Distribution Grid. IEEE Transactions on Smart Grid, 2018, 9, 624-634.	9.0	141
30	Towards Max-Min Fair Resource Allocation for Stream Big Data Analytics in Shared Clouds. IEEE Transactions on Big Data, 2018, 4, 130-137.	6.1	21
31	Optimal Charging Operation of Battery Swapping and Charging Stations With QoS Guarantee. IEEE Transactions on Smart Grid, 2018, 9, 4689-4701.	9.0	84
32	Challenges and Solutions in Fog Computing Orchestration. IEEE Network, 2018, 32, 122-129.	6.9	68
33	Online Price-based Vehicle-to-Station Recommendations for EV Battery Swapping. , 2018, , .		5
34	Delay-Aware Task Offloading in Shared Fog Networks. IEEE Internet of Things Journal, 2018, 5, 4945-4956.	8.7	19
35	NOMA-Assisted Multi-Access Mobile Edge Computing: A Joint Optimization of Computation Offloading and Time Allocation. IEEE Transactions on Vehicular Technology, 2018, 67, 12244-12258.	6.3	219
36	Optimal Charging Schemes for Electric Vehicles in Smart Grid: A Contract Theoretic Approach. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 3046-3058.	8.0	51

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37	Joint voltage and frequency regulation by EV charging scheduling in the distribution network. , 2018, , .		10
38	Optimal Hierarchical Radio Resource Management for HetNets With Flexible Backhaul. IEEE Transactions on Wireless Communications, 2018, 17, 4239-4255.	9.2	11
39	Real-time market-based coordination mechanism for transmission and distribution networks. , 2017, , .		1
40	Market for multi-dimensional flexibility with parametric demand response bidding. , 2017, , .		6
41	User-Centric Demand Response Management in the Smart Grid With Multiple Providers. IEEE Transactions on Emerging Topics in Computing, 2017, 5, 494-505.	4.6	41
42	Platoon-based electric vehicles charging with renewable energy supply: A queuing analytical model. , 2016, , .		12
43	Robust provisioning of demand-side flexibility under electricity price uncertainty. , 2016, , .		3
44	Pareto Optimal Operation of Distributed Battery Energy Storage Systems for Energy Arbitrage under Dynamic Pricing. IEEE Transactions on Parallel and Distributed Systems, 2016, 27, 2103-2115.	5.6	28
45	M-Convex VM Consolidation: Towards a Better VM Workload Consolidation. IEEE Transactions on Cloud Computing, 2016, 4, 415-428.	4.4	24
46	Energy management of cooperative microgrids with P2P energy sharing in distribution networks. , 2015, , .		72
47	Need for speed: CORA scheduler for optimizing completion-times in the cloud. , 2015, , .		38
48	Smart home energy management systems based on non-intrusive load monitoring. , 2015, , .		5
49	A monotonic optimization based optimal discrete charging protocol for electric vehicles with multilevel charging rates. , 2015, , .		0
50	Model predictive control of integrated room automation considering occupants preference. , 2015, , .		1
51	A Stochastic Shortest Path Framework for Quantifying the Value and Lifetime of Battery Energy Storage Under Dynamic Pricing. IEEE Transactions on Smart Grid, 2015, , 1-1.	9.0	8
52	Two-timescale QoS-aware cross-layer optimisation for HetNets with flexible backhaul. , 2015, , .		4
53	Cooperative Sensing Scheduling for Energy-Efficient Cognitive Radio Networks. IEEE Transactions on Vehicular Technology, 2015, 64, 2648-2662.	6.3	13
54	Optimal management of local energy trading in future smart microgrid via pricing. , 2015, , .		14

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55	Efficient Energy-Aware Routing With Redundancy Elimination. IEEE Journal on Selected Areas in Communications, 2015, 33, 2815-2825.	14.0	4
56	Do You Feel the Lag of Your Hadoop?. , 2015, , .		1
57	Queueing network models for electric vehicle charging station with battery swapping. , 2014, , .		29
58	Optimal charging operation of battery swapping stations with QoS guarantee. , 2014, , .		29
59	Optimal energy trading with battery energy storage under dynamic pricing. , 2014, , .		7
60	Integrating Price Responsive Demand Into the Unit Commitment Problem. IEEE Transactions on Smart Grid, 2014, 5, 2757-2765.	9.0	31
61	The optimal user scheduling for LTE-A downlink with heterogeneous traffic types. , 2014, , .		0
62	An Optimal Standard-Compliant MIMO Scheduler for LTE Downlink. IEEE Transactions on Wireless Communications, 2014, 13, 2412-2421.	9.2	6
63	A Scalable and Accurate Nonsaturated IEEE 802.11e EDCA Model for an Arbitrary Buffer Size. IEEE Transactions on Mobile Computing, 2013, 12, 2455-2469.	5.8	25
64	Energy-Efficient Cooperative Sensing Scheduling for Multi-Band Cognitive Radio Networks. IEEE Transactions on Wireless Communications, 2013, 12, 4943-4955.	9.2	18
65	SALT: Sensing enAbled Localization and Tracking for geolocation database in TV white space. , 2013, , .		2
66	Economic analysis of lifetime-constrained battery storage under dynamic pricing. , 2013, , .		8
67	Cooperative spectrum sharing in cognitive radio networks with proactive primary system. , 2013, , .		7
68	Network-welfare maximization for Cognitive Radio Networks via optimal matching. , 2012, , .		2
69	Energy-efficient cooperative sensing scheduling for heterogeneous channel access in Cognitive Radio. , 2012, , .		6
70	SLA guaranteed virtual machine consolidation for computing clouds. , 2012, , .		18
71	Energy-Efficient Delay-Constrained Transmission and Sensing for Cognitive Radio Systems. IEEE Transactions on Vehicular Technology, 2012, 61, 3100-3113.	6.3	29
72	Energy-efficient transmission strategy for Cognitive Radio systems. , 2012, , .		2

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73	Optimal exploitation of renewable energy for residential smart grid with supply-demand model. , 2012, , .		0
74	Sensing Based Joint Rate and Power Allocations for Cognitive Radio Systems. IEEE Wireless Communications Letters, 2012, 1, 113-116.	5.0	15
75	A Simple Critical-Load-Based CAC Scheme for IEEE 802.11 DCF Networks. IEEE/ACM Transactions on Networking, 2011, 19, 1485-1498.	3.8	24
76	Revenue sharing among ISPs in two-sided markets. , 2011, , .		48
77	Joint Pricing and Power Allocation for Dynamic Spectrum Access Networks with Stackelberg Game Model. IEEE Transactions on Wireless Communications, 2011, 10, 12-19.	9.2	70
78	Cooperative Sensing Scheduling for Energy-Aware Cognitive Radio Networks. , 2011, , .		14
79	Energy-Efficient Spectrum Sensing and Transmission for Cognitive Radio System. IEEE Communications Letters, 2011, 15, 545-547.	4.1	76
80	Joint Bandwidth and Power Allocations for Cognitive Radio Networks with Imperfect Spectrum Sensing. Wireless Personal Communications, 2011, 57, 19-31.	2.7	9
81	Optimal energy-efficient cooperative sensing scheduling for Cognitive Radio Networks with QoS guarantee. , 2011, , .		6
82	Adaptive topology formation for peer-to-peer video streaming. Peer-to-Peer Networking and Applications, 2010, 3, 186-207.	3.9	12
83	Cross-Layer Throughput Optimization in Cognitive Radio Networks with SINR Constraints. International Journal of Digital Multimedia Broadcasting, 2010, 2010, 1-13.	0.6	9
84	A novel CAC scheme for homogeneous 802.11 networks. IEEE Transactions on Wireless Communications, 2010, 9, 1168-1174.	9.2	5
85	QoS-revenue tradeoff with time-constrained ISP pricing. , 2010, , .		11
86	BitTorrent under a microscope: Towards static QoS provision in dynamic peer-to-peer networks. , 2010, , .		2
87	A MEASUREMENT-ASSISTED, MODEL-BASED ADMISSION CONTROL ALGORITHM FOR IEEE 802.11E. Journal of Interconnection Networks, 2009, 10, 303-320.	1.0	7
88	Joint Rate-and-Power Allocation for Multi-channel Spectrum Sharing Networks with Balanced QoS Provisioning and Power Saving. Mobile Networks and Applications, 2009, 14, 198-209.	3.3	2
89	A Simple and Approximate Model for Nonsaturated IEEE 802.11 DCF. IEEE Transactions on Mobile Computing, 2009, 8, 1539-1553.	5.8	54
90	Performance study and system optimization on sleep mode operation in IEEE 802.16e. IEEE Transactions on Wireless Communications, 2009, 8, 4518-4528.	9.2	32

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91	Building Heterogeneous Peer-to-Peer Networks: Protocol and Analysis. IEEE/ACM Transactions on Networking, 2008, 16, 281-292.	3.8	40
92	Joint Spectrum Sharing and Fair Routing in Cognitive Radio Networks. , 2008, , .		29
93	A simple model for nonsaturated IEEE 802.11 DCF networks. IEEE Communications Letters, 2008, 12, 563-565.	4.1	9
94	Distributed Multichannel Power Allocation Algorithm for Spectrum Sharing Cognitive Radio Networks. , 2008, , .		15
95	P2P Live Streaming Towards Best Video Quality. , 2008, , .		9
96	An Equal-Spacing-Based Design for QoS Guarantee in IEEE 802.11e HCCA Wireless Networks. IEEE Transactions on Mobile Computing, 2008, 7, 1474-1490.	5.8	23
97	Optimal Selection of Power Saving Classes in IEEE 802.16e. , 2007, , .		28
98	Traffic Oriented Topology Formation and Load-balancing Routing in Wireless Mesh Networks. , 2007, , .		5
99	Finding Optimal Marking Probability to Reduce Convergence Time. , 2007, , .		0
100	Advances in Peer-to-Peer Streaming Systems [Guest Editorial]. IEEE Journal on Selected Areas in Communications, 2007, 25, 1609-1611.	14.0	7
101	Performance Study of Power Saving Classes of Type I and II in IEEE 802.16e. Local Computer Networks (LCN), Proceedings of the IEEE Conference on, 2006, , .	0.0	58