

Sid Chi-Kin Chau

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.

76
papers

809
citations

17
h-index

24
g-index

88
ext. papers

1,043
ext. citations

4.9
avg, IF

4.61
L-index

#	Paper	IF	Citations
76	Near-Optimal and Collaborative Service Caching in Mobile Edge Clouds. <i>IEEE Transactions on Mobile Computing</i> , 2022 , 1-1	4.6	1
75	Autonomous Recharging and Flight Mission Planning for Battery-Operated Autonomous Drones. <i>IEEE Transactions on Automation Science and Engineering</i> , 2022 , 1-13	4.9	8
74	A Competitive Scheduling Algorithm for Online Demand Response in Islanded Microgrids. <i>IEEE Transactions on Power Systems</i> , 2021 , 36, 3430-3440	7	1
73	Privacy-preserving energy storage sharing with blockchain and secure multi-party computation 2021 , 1, 32-50		1
72	Efficient 3D Road Map Data Exchange for Intelligent Vehicles in Vehicular Fog Networks. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 3151-3165	6.8	16
71	Decentralized Ride-Sharing and Vehicle-Pooling Based on Fair Cost-Sharing Mechanisms. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2020 , 1-11	6.1	3
70	Multisensor Adaptive Control System for IoT-Empowered Smart Lighting with Oblivious Mobile Sensors. <i>ACM Transactions on Sensor Networks</i> , 2020 , 16, 1-21	2.9	2
69	Reliability Augmentation of Requests with Service Function Chain Requirements in Mobile Edge-Cloud Networks 2020 ,		4
68	Combinatorial Optimization of AC Optimal Power Flow With Discrete Demands in Radial Networks. <i>IEEE Transactions on Control of Network Systems</i> , 2020 , 7, 887-898	4	0
67	Collaborate or Separate? Distributed Service Caching in Mobile Edge Clouds 2020 ,		26
66	Cloud-based Privacy-Preserving Collaborative Consumption for Sharing Economy. <i>IEEE Transactions on Cloud Computing</i> , 2020 , 1-1	3.3	2
65	Peer-to-Peer Energy Sharing 2019 ,		9
64	Stay or Switch 2019 ,		1
63	. <i>IEEE Access</i> , 2019 , 7, 4880-4897	3.5	5
62	Improving Viability of Electric Taxis by Taxi Service Strategy Optimization: A Big Data Study of New York City. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2019 , 20, 817-829	6.1	18
61	Complex-demand scheduling problem with application in smart grid. <i>Theoretical Computer Science</i> , 2019 , 761, 34-50	1.1	2
60	Quantifying Inefficiency of Fair Cost-Sharing Mechanisms for Sharing Economy. <i>IEEE Transactions on Control of Network Systems</i> , 2018 , 5, 1809-1818	4	12

59	Optimal Power Flow With Inelastic Demands for Demand Response in Radial Distribution Networks. <i>IEEE Transactions on Control of Network Systems</i> , 2018 , 5, 513-524	4	10
58	Efficient Algorithm for Scalable Event-Based Demand Response Management in Microgrids. <i>IEEE Transactions on Smart Grid</i> , 2018 , 9, 2714-2725	10.7	15
57	Enabling Self-aware Smart Buildings by Augmented Reality 2018 ,		3
56	Combinatorial Optimization of Alternating Current Electric Power Systems 2018 ,		2
55	Smart lighting control using oblivious mobile sensors 2018 ,		6
54	Challenges in Scheduling Electric Vehicle Charging with Discrete Charging Rates in AC Power Networks 2018 ,		2
53	Combinatorial Optimization of Electric Vehicle Charging in AC Power Distribution Networks 2018 ,		3
52	Approximation Scheduling Algorithms for Electric Vehicle Charging with Discrete Charging Options 2018 ,		1
51	Effective Static and Adaptive Carrier Sensing for Dense Wireless CSMA Networks. <i>IEEE Transactions on Mobile Computing</i> , 2017 , 16, 355-366	4.6	17
50	Personalized Prediction of Vehicle Energy Consumption Based on Participatory Sensing. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2017 , 18, 3103-3113	6.1	17
49	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2017 , 18, 3421-3432	6.1	31
48	Real-time Appliance Identification using Smart Plugs 2017 ,		3
47	Smart Power Plugs for Efficient Online Classification and Tracking of Appliance Behavior 2017 ,		7
46	Automatic HVAC control with real-time occupancy recognition and simulation-guided model predictive control in low-cost embedded system. <i>Energy and Buildings</i> , 2017 , 154, 141-156	7	82
45	Autonomous Inductive Charging System for Battery-operated Electric Drones 2017 ,		11
44	Viability Analysis of Electric Taxis Using New York City Dataset 2017 ,		2
43	Crowd-Sourced Storage-Assisted Demand Response in Microgrids 2017 ,		8
42	Index Coding of Point Cloud-Based Road Map Data for Autonomous Driving 2017 ,		13

41	Summary of Recent Results. <i>Performance Evaluation Review</i> , 2017 , 45, 55-57	0.4	
40	Fuel minimization of plug-in hybrid electric vehicles by optimizing drive mode selection 2016 ,		4
39	Online Algorithms for Information Aggregation From Distributed and Correlated Sources. <i>IEEE/ACM Transactions on Networking</i> , 2016 , 24, 3714-3725	3.8	3
38	Cost Minimizing Online Algorithms for Energy Storage Management With Worst-Case Guarantee. <i>IEEE Transactions on Smart Grid</i> , 2016 , 7, 2691-2702	10.7	25
37	Complex-Demand Scheduling Problem with Application in Smart Grid. <i>Lecture Notes in Computer Science</i> , 2016 , 496-509	0.9	4
36	On the privacy of crowd-sourced data collection for distance-to-empty prediction and eco-routing 2016 ,		3
35	In-situ sensor network for microclimate and urban energy modeling and validation 2016 ,		1
34	Truthful Mechanisms for Combinatorial Allocation of Electric Power in Alternating Current Electric Systems for Smart Grid. <i>ACM Transactions on Economics and Computation</i> , 2016 , 5, 1-29	1.6	8
33	Data extraction from electric vehicles through OBD and application of carbon footprint evaluation 2016 ,		8
32	Competitive online algorithms for geographical load balancing in data centers with energy storage 2016 ,		3
31	Online microgrid energy generation scheduling revisited 2016 ,		20
30	CLOUDTHINK: A SCALABLE SECURE PLATFORM FOR MIRRORING TRANSPORTATION SYSTEMS IN THE CLOUD. <i>Transport</i> , 2015 , 30, 320-329	1.4	25
29	A Participatory Sensing Approach for Personalized Distance-to-Empty Prediction and Green Telematics 2015 ,		9
28	OS Plug 2015 ,		2
27	Design of sensor network for urban micro-climate monitoring 2015 ,		7
26	2014 ,		4
25	Economic Viability of Paris Metro Pricing for Digital Services. <i>ACM Transactions on Internet Technology</i> , 2014 , 14, 1-21	3.8	6
24	A social approach for predicting distance-to-empty in vehicles 2014 ,		6

23	2013,		3
22	Smart air-conditioning control by wireless sensors 2013,		6
21	Online energy generation scheduling for microgrids with intermittent energy sources and co-generation. <i>Performance Evaluation Review</i> , 2013 , 41, 53-66	0.4	16
20	Impact of directional transmission in large-scale multi-hop wireless ad hoc networks 2012,		7
19	Mixing time and temporal starvation of general CSMA networks with multiple frequency agility 2012,		17
18	. <i>IEEE/ACM Transactions on Networking</i> , 2011 , 19, 1111-1124	3.8	22
17	Robust multipath routing in large wireless networks 2011,		5
16	. <i>IEEE/ACM Transactions on Networking</i> , 2011 , 19, 893-906	3.8	19
15	Managing interoperation in multi-organization MANETs by dynamic gateway assignment 2011,		1
14	On the Viability of Paris Metro Pricing for Communication and Service Networks 2010,		47
13	2010,		14
12	Harnessing battery recovery effect in wireless sensor networks: Experiments and analysis. <i>IEEE Journal on Selected Areas in Communications</i> , 2010 , 28, 1222-1232	14.2	58
11	2010,		15
10	Bistability in Online Social Networks 2010,		1
9	Capacity of large-scale CSMA wireless networks 2009,		29
8	A Game-Theoretical Study of Robust Networked Systems. <i>IEEE Journal on Selected Areas in Communications</i> , 2008 , 26, 1250-1259	14.2	2
7	Inter-domain routing for mobile ad hoc networks 2008,		24
6	How to Enable Policy-Based Interactions in Dynamic Wireless Networks? 2008,		2

5	Latency of opportunistic forwarding in finite regular wireless networks 2008 ,	3
4	ROFL 2008 ,	2
3	Opportunistic forwarding in wireless networks with duty cycling 2008 ,	23
2	Policy-based routing with non-strict preferences. <i>Computer Communication Review</i> , 2006 , 36, 387-398 1.4	9
1	Inter-Domain Routing in Mobile Ad Hoc Networks1-14	1