

Xue Liu

List of Publications by Citations

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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.

157
papers

3,728
citations

28
h-index

56
g-index

181
ext. papers

4,667
ext. citations

6.2
avg, IF

5.76
L-index

#	Paper	IF	Citations
157	Minimizing Electricity Cost: Optimization of Distributed Internet Data Centers in a Multi-Electricity-Market Environment 2010 ,		268
156	Towards Secure Industrial IoT: Blockchain System With Credit-Based Consensus Mechanism. <i>IEEE Transactions on Industrial Informatics</i> , 2019 , 15, 3680-3689	11.9	224
155	Electronic frog eye: Counting crowd using WiFi 2014 ,		221
154	A survey of multicast routing protocols for mobile Ad-Hoc networks. <i>IEEE Communications Surveys and Tutorials</i> , 2009 , 11, 78-91	37.1	160
153	A review on electric vehicles interacting with renewable energy in smart grid. <i>Renewable and Sustainable Energy Reviews</i> , 2015 , 51, 648-661	16.2	153
152	Performance and Reliability Analysis of IEEE 802.11p Safety Communication in a Highway Environment. <i>IEEE Transactions on Vehicular Technology</i> , 2013 , 62, 4198-4212	6.8	125
151	Smart Charging for Electric Vehicles: A Survey From the Algorithmic Perspective. <i>IEEE Communications Surveys and Tutorials</i> , 2016 , 18, 1500-1517	37.1	115
150	Coordinated Energy Cost Management of Distributed Internet Data Centers in Smart Grid. <i>IEEE Transactions on Smart Grid</i> , 2012 , 3, 50-58	10.7	102
149	A Survey on Geographic Load Balancing Based Data Center Power Management in the Smart Grid Environment. <i>IEEE Communications Surveys and Tutorials</i> , 2014 , 16, 214-233	37.1	96
148	A trust model based on fuzzy recommendation for mobile ad-hoc networks. <i>Computer Networks</i> , 2009 , 53, 2396-2407	5.4	95
147	Towards Optimal Electric Demand Management for Internet Data Centers. <i>IEEE Transactions on Smart Grid</i> , 2012 , 3, 183-192	10.7	81
146	A Survey on Green-Energy-Aware Power Management for Datacenters. <i>ACM Computing Surveys</i> , 2015 , 47, 1-38	13.4	77
145	Mosaic: A low-cost mobile sensing system for urban air quality monitoring 2016 ,		76
144	Research on multicast routing protocols for mobile ad-hoc networks. <i>Computer Networks</i> , 2008 , 52, 988-997	9.4	72
143	Temporal Load Balancing with Service Delay Guarantees for Data Center Energy Cost Optimization. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2014 , 25, 775-784	3.7	71
142	Integrating Adaptive Components: An Emerging Challenge in Performance-Adaptive Systems and a Server Farm Case-Study 2007 ,		64
141	Challenges Towards Elastic Power Management in Internet Data Centers 2009 ,		63

140	Location Cheating: A Security Challenge to Location-Based Social Network Services 2011 ,		58
139	D-Pro: Dynamic Data Center Operations With Demand-Responsive Electricity Prices in Smart Grid. <i>IEEE Transactions on Smart Grid</i> , 2012 , 3, 1743-1754	10.7	52
138	Hedging Against Uncertainty: A Tale of Internet Data Center Operations Under Smart Grid Environment. <i>IEEE Transactions on Smart Grid</i> , 2011 , 2, 555-563	10.7	46
137	Delay analysis and study of IEEE 802.11p based DSRC safety communication in a highway environment 2013 ,		43
136	Quantity Versus Quality: Optimal Harvesting Wind Power for the Smart Grid. <i>Proceedings of the IEEE</i> , 2014 , 102, 1762-1776	14.3	39
135	Spatio-Temporal Load Balancing for Energy Cost Optimization in Distributed Internet Data Centers. <i>IEEE Transactions on Cloud Computing</i> , 2015 , 3, 387-397	3.3	35
134	Efficient SAT-Based Mapping and Scheduling of Homogeneous Synchronous Dataflow Graphs for Throughput Optimization 2008 ,		32
133	SmartEye: Real-time and efficient cloud image sharing for disaster environments 2015 ,		30
132	BURSE: A Bursty and Self-Similar Workload Generator for Cloud Computing. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2015 , 26, 668-680	3.7	30
131	Providing OS Support for Wireless Sensor Networks: Challenges and Approaches. <i>IEEE Communications Surveys and Tutorials</i> , 2010 , 12, 519-530	37.1	29
130	NetSimplex: Controller Fault Tolerance Architecture in Networked Control Systems. <i>IEEE Transactions on Industrial Informatics</i> , 2013 , 9, 346-356	11.9	28
129	Translating Service Level Objectives to lower level policies for multi-tier services. <i>Cluster Computing</i> , 2008 , 11, 299-311	2.1	28
128	Optimal Load Balancing and Energy Cost Management for Internet Data Centers in Deregulated Electricity Markets. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2014 , 25, 2659-2669	3.7	27
127	Dynamic Packet Length Control in Wireless Sensor Networks. <i>IEEE Transactions on Wireless Communications</i> , 2014 , 13, 1172-1181	9.6	25
126	Data preference matters: A new perspective of safety data dissemination in vehicular ad hoc networks 2015 ,		24
125	A Cluster-Based Protocol to Enforce Integrity and Preserve Privacy in Data Aggregation 2009 ,		24
124	Optimal Sampling Rate Assignment with Dynamic Route Selection for Real-Time Wireless Sensor Networks 2008 ,		23
123	Taming the inconsistency of Wi-Fi fingerprints for device-free passive indoor localization 2017 ,		22

122	Present or Future: Optimal Pricing for Spot Instances 2013 ,		22
121	Exploiting Concurrency for Efficient Dissemination in Wireless Sensor Networks. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2013 , 24, 691-700	3.7	22
120	ORTEGA: An Efficient and Flexible Online Fault Tolerance Architecture for Real-Time Control Systems. <i>IEEE Transactions on Industrial Informatics</i> , 2008 , 4, 213-224	11.9	22
119	Adaptive Power Management through Thermal Aware Workload Balancing in Internet Data Centers. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2015 , 26, 2400-2409	3.7	21
118	DeepFood: Food Image Analysis and Dietary Assessment via Deep Model. <i>IEEE Access</i> , 2020 , 8, 47477-47489	3.9	21
117	CityDrive: A map-generating and speed-optimizing driving system 2014 ,		20
116	Predictive Electricity Cost Minimization Through Energy Buffering in Data Centers. <i>IEEE Transactions on Smart Grid</i> , 2014 , 5, 230-238	10.7	20
115	Survey of the low power wide area network technologies. <i>Journal of Network and Computer Applications</i> , 2020 , 149, 102459	7.9	20
114	Dynamic Control of Electricity Cost with Power Demand Smoothing and Peak Shaving for Distributed Internet Data Centers 2012 ,		19
113	Defending Against Traffic Analysis in Wireless Networks through Traffic Reshaping 2011 ,		19
112	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
111	Data perturbation with state-dependent noise for participatory sensing 2012 ,		18
110	An Empirical Evaluation of Rule Extraction from Recurrent Neural Networks. <i>Neural Computation</i> , 2018 , 30, 2568-2591	2.9	17
109	Experimental Evaluation and Selection of Data Consistency Mechanisms for Hard Real-Time Applications on Multicore Platforms. <i>IEEE Transactions on Industrial Informatics</i> , 2014 , 10, 903-918	11.9	17
108	A Switch Design for Real-Time Industrial Networks 2008 ,		17
107	NEST: Locality-aware approximate query service for cloud computing 2013 ,		16
106	PowerSleep: A Smart Power-Saving Scheme With Sleep for Servers Under Response Time Constraint. <i>IEEE Journal on Emerging and Selected Topics in Circuits and Systems</i> , 2011 , 1, 289-298	5.2	16
105	On-Line Event-Driven Scheduling for Electric Vehicle Charging via Park-and-Charge 2016 ,		16

104	An Optimization Framework for Online Ride-Sharing Markets 2017 ,		15
103	Scheduling Heterogeneous Flows with Delay-Aware Deduplication for Avionics Applications. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2012 , 23, 1790-1802	3-7	15
102	From Offline toward Real-Time: A Hybrid Systems Model Checking and CPS Co-design Approach for Medical Device Plug-and-Play (MDPnP) 2012 ,		15
101	Bulk data dissemination in wireless sensor networks: Modeling and analysis. <i>Computer Networks</i> , 2012 , 56, 2664-2676	5-4	15
100	Queueing-Model-Based Adaptive Control of Multi-Tiered Web Applications. <i>IEEE Transactions on Network and Service Management</i> , 2008 , 5, 157-167	4-8	15
99	Lightning: A Hard Real-Time, Fast, and Lightweight Low-End Wireless Sensor Election Protocol for Acoustic Event Localization. <i>IEEE Transactions on Mobile Computing</i> , 2008 , 7, 570-584	4-6	15
98	A Certificateless Signature Scheme for Mobile Wireless Cyber-Physical Systems 2008 ,		14
97	On optimal diversity in network-coding-based routing in wireless networks 2015 ,		13
96	ANTELOPE: A Semantic-Aware Data Cube Scheme for Cloud Data Center Networks. <i>IEEE Transactions on Computers</i> , 2014 , 63, 2146-2159	2-5	13
95	A MapReduce-supported network structure for data centers. <i>Concurrency Computation Practice and Experience</i> , 2012 , 24, 1271-1295	1-4	13
94	MixCPS: Mixed Time/Event-Triggered Architecture of CyberPhysical Systems. <i>Proceedings of the IEEE</i> , 2016 , 104, 923-937	14-3	13
93	Towards Reconstructing Routing Paths in Large Scale Sensor Networks. <i>IEEE Transactions on Computers</i> , 2016 , 65, 281-293	2-5	12
92	COMIC: Cost Optimization for Internet Content Multihoming. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2015 , 26, 1851-1860	3-7	12
91	Distributed Deadline and Renewable Aware Electric Vehicle Demand Response in the Smart Grid 2015 ,		12
90	SafeWatch 2017 ,		11
89	Comprehensive understanding of operation cost reduction using energy storage for IDCs 2015 ,		11
88	Data center energy cost minimization: A spatio-temporal scheduling approach 2013 ,		11
87	A highly scalable bandwidth estimation of commercial hotspot access points 2011 ,		11

86	Performance of Bulk Data Dissemination in Wireless Sensor Networks. <i>Lecture Notes in Computer Science</i> , 2009 , 356-369	0.9	11
85	EnDAS: Efficient Encrypted Data Search as a Mobile Cloud Service. <i>IEEE Transactions on Emerging Topics in Computing</i> , 2015 , 3, 372-383	4.1	10
84	SHOW 2018 , 1, 1-23		10
83	FIT: A Flexible, Lightweight, and Real-Time Scheduling System for Wireless Sensor Platforms. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2010 , 21, 126-138	3.7	10
82	Building Robust Wireless LAN for Industrial Control with the DSSS-CDMA Cell Phone Network Paradigm. <i>IEEE Transactions on Mobile Computing</i> , 2007 , 6, 706-719	4.6	10
81	Auc2Reserve: A Differentially Private Auction for Electric Vehicle Fast Charging Reservation (Invited Paper) 2016 ,		10
80	Bulk Savings for Bulk Transfers: Minimizing the Energy-Cost for Geo-Distributed Data Centers. <i>IEEE Transactions on Cloud Computing</i> , 2020 , 8, 73-85	3.3	10
79	GreenPlanning: Optimal Energy Source Selection and Capacity Planning for Green Datacenters 2016 ,		9
78	Data Similarity-Aware Computation Infrastructure for the Cloud. <i>IEEE Transactions on Computers</i> , 2014 , 63, 3-16	2.5	9
77	Link Quality Aware Code Dissemination in Wireless Sensor Networks. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2014 , 25, 1776-1786	3.7	9
76	Aggrecode: Constructing route intersection for data reconstruction in erasure coded storage 2014 ,		9
75	Peer-to-Peer Energy Trading and Energy Conversion in Interconnected Multi-Energy Microgrids Using Multi-Agent Deep Reinforcement Learning. <i>IEEE Transactions on Smart Grid</i> , 2022 , 13, 715-727	10.7	9
74	SafeWatch. <i>ACM Transactions on Cyber-Physical Systems</i> , 2020 , 4, 1-21	2.3	9
73	iPath: Path Inference in Wireless Sensor Networks. <i>IEEE/ACM Transactions on Networking</i> , 2016 , 24, 517-528	3.8	8
72	Design and Implementation of Holistic Scheduling and Efficient Storage for FlexRay. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2014 , 25, 2529-2539	3.7	8
71	An efficient sampling method for characterizing points of interests on maps 2014 ,		8
70	ISC: An Iterative Social Based Classifier for Adult Account Detection on Twitter. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2015 , 27, 1045-1056	4.2	7
69	How cars talk louder, clearer and fairer: Optimizing the communication performance of connected vehicles via online synchronous control 2016 ,		7

68	Domo: Passive Per-Packet Delay Tomography in Wireless Ad-hoc Networks 2014,		7
67	D2: Anomaly Detection and Diagnosis in Networked Embedded Systems by Program Profiling and Symptom Mining 2013,		7
66	SReD: A Secure REputation-based Dynamic Window Scheme for disruption-tolerant networks 2009,		7
65	An Ensemble Learning-Based Vehicle Steering Detector Using Smartphones. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2020 , 21, 1964-1975	6.1	7
64	Solving the performance puzzle of DSRC multi-channel operations 2015,		6
63	AdaSynch: A General Adaptive Clock Synchronization Scheme Based on Kalman Filter for WSNs. <i>Wireless Personal Communications</i> , 2012 , 63, 217-239	1.9	6
62	HBaseMQ: A distributed message queuing system on clouds with HBase 2013,		6
61	SunChase: Energy-Efficient Route Planning for Solar-Powered EVs 2017,		6
60	Blowing hard is not all we want: Quantity vs quality of wind power in the smart grid 2014,		6
59	Adaptive Sampling and Duty Cycling for Smartphone Accelerometer 2013,		6
58	ARBOR: Hang Together Rather Than Hang Separately in 802.11 WiFi Networks 2010,		6
57	End-to-End Delay Analysis in Wireless Network Coding: A Network Calculus-Based Approach 2011,		6
56	Robust fuzzy CPU utilization control for dynamic workloads. <i>Journal of Systems and Software</i> , 2010 , 83, 1192-1204	3.3	6
55	Post-Deployment Anomaly Detection and Diagnosis in Networked Embedded Systems by Program Profiling and Symptom Mining. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2016 , 27, 3588-3607	4.7	6
54	The Design and Implementations of Locality-Aware Approximate Queries in Hybrid Storage Systems. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2015 , 26, 3194-3207	3.7	5
53	The answer is rolling on wheels: Modeling and performance evaluation of in-cabin Wi-Fi communications. <i>Vehicular Communications</i> , 2015 , 2, 13-26	5.7	5
52	Proactive Doppler Shift Compensation in Vehicular Cyber-Physical Systems. <i>IEEE/ACM Transactions on Networking</i> , 2018 , 26, 807-818	3.8	5
51	eco-IDC: Trade Delay for Energy Cost with Service Delay Guarantee for Internet Data Centers 2012,		5

50	Optimal Joint Multi-Path Routing and Sampling Rates Assignment for Real-Time Wireless Sensor Networks 2011 ,		5
49	A real-time multicast routing scheme for multi-hop switched fieldbuses 2011 ,		5
48	EUL: An Efficient and Universal Localization Method for Wireless Sensor Network 2009 ,		5
47	Bandwidth and Energy Efficient Image Sharing for Situation Awareness in Disasters. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2019 , 30, 15-28	3.7	4
46	Accurate Per-Packet Delay Tomography in Wireless Ad Hoc Networks. <i>IEEE/ACM Transactions on Networking</i> , 2017 , 25, 480-491	3.8	4
45	Whom to Blame? Automatic Diagnosis of Performance Bottlenecks on Smartphones. <i>IEEE Transactions on Mobile Computing</i> , 2017 , 16, 1773-1785	4.6	4
44	Every pixel counts: Fine-grained UI rendering analysis for mobile applications 2017 ,		4
43	Intelligent joint spatio-temporal management of electric vehicle charging and data center power consumption 2014 ,		4
42	TailCon: Power-Minimizing Tail Percentile Control of Response Time in Server Clusters 2012 ,		4
41	ORTEGA: An Efficient and Flexible Software Fault Tolerance Architecture for Real-Time Control Systems 2008 ,		4
40	Improving BitTorrent Traffic Performance by Exploiting Geographic Locality 2008 ,		4
39	AdSherlock: Efficient and Deployable Click Fraud Detection for Mobile Applications. <i>IEEE Transactions on Mobile Computing</i> , 2021 , 20, 1285-1297	4.6	4
38	Givs: Fine-Grained Gesture Control for Mobile Devices in Driving Environments. <i>IEEE Access</i> , 2020 , 8, 49239-49243	3.5	4
37	Efficiently Estimating Statistics of Points of Interests on Maps. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2016 , 28, 425-438	4.2	3
36	Utilization Control and Optimization of Real-Time Embedded Systems. <i>Foundations and Trends in Electronic Design Automation</i> , 2015 , 9, 211-307	1	3
35	Delay analysis in practical wireless network coding. <i>Wireless Communications and Mobile Computing</i> , 2014 , 14, 497-515	1.9	3
34	Shapley Homology: Topological Analysis of Sample Influence for Neural Networks. <i>Neural Computation</i> , 2020 , 32, 1355-1378	2.9	3
33	Feature Statistics Guided Efficient Filter Pruning 2020 ,		3

32	Leaking your engine speed by spectrum analysis of real-Time scheduling sequences. <i>Journal of Systems Architecture</i> , 2019 , 97, 455-466	5.5	3
31	Indoor Localization Based on Channel State Information 2019 ,		2
30	Efficient and Effective Dimension Control in Automotive Applications. <i>IEEE Transactions on Industrial Informatics</i> , 2020 , 1-1	11.9	2
29	Accelerating Deep Learning Systems via Critical Set Identification and Model Compression. <i>IEEE Transactions on Computers</i> , 2020 , 1-1	2.5	2
28	Exploiting concurrency for efficient dissemination in Wireless Sensor Networks 2011 ,		2
27	Fuzzy trust recommendation based on collaborative filtering for mobile ad-hoc networks 2008 ,		2
26	Formal modeling and analysis of real-time resource-sharing protocols in Real-Time Maude. <i>Parallel and Distributed Processing Symposium (IPDPS), Proceedings of the International Conference on</i> , 2008 ,		2
25	Exploiting Link Diversity for Performance-Aware and Repeatable Simulation in Low-Power Wireless Networks. <i>IEEE/ACM Transactions on Networking</i> , 2020 , 28, 2545-2558	3.8	2
24	Partitioning-Based Scheduling of OpenMP Task Systems With Tied Tasks. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2021 , 32, 1322-1339	3.7	2
23	Cost-Efficient Remote Backup Services for Enterprise Clouds. <i>IEEE Transactions on Industrial Informatics</i> , 2016 , 12, 1650-1657	11.9	2
22	End-to-end delay analysis for networked systems. <i>Frontiers of Information Technology and Electronic Engineering</i> , 2015 , 16, 732-743	2.2	1
21	Reprogramming over Low Power Link Layer in Wireless Sensor Networks 2013 ,		1
20	Pathfinder: Robust path reconstruction in large scale sensor networks with lossy links 2013 ,		1
19	A High-Performance Deeply Pipelined Architecture for Elementary Transcendental Function Evaluation 2017 ,		1
18	A multiple vehicle sensing approach for collision avoidance in progressively deployed vehicle networks 2017 ,		1
17	Curbing Aggregate Member Flow Burstiness to Bound End-to-End Delay in Networks of TDMA Crossbar Real-Time Switches 2012 ,		1
16	SyRaFa: Synchronous Rate and Frequency Adjustment for Utilization Control in Distributed Real-Time Embedded Systems. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2013 , 24, 1052-1064	3.7	1
15	Dynamic Power Management of Distributed Internet Data Centers in Smart Grid Environment 2011 ,		1

14	CSS: Conditional State-Based Scheduling for Networked Control Systems 2012 ,		1
13	HOSA: Holistic scheduling and analysis for scalable fault-tolerant FlexRay design 2012 ,		1
12	gRemote: Cloud rendering on GPU resource pool based on API-forwarding. <i>Journal of Systems Architecture</i> , 2021 , 116, 102055	5.5	1
11	Customer Baseline Load Estimation for Incentive-Based Demand Response Using Long Short-Term Memory Recurrent Neural Network 2019 ,		1
10	Accelerating data filtering for database using FPGA. <i>Journal of Systems Architecture</i> , 2021 , 114, 101908	5.5	1
9	Smart Futures based Resource Trading and Coalition Formation for Real-time Mobile Data Processing. <i>IEEE Transactions on Services Computing</i> , 2021 , 1-1	4.8	1
8	Joint adaptation framework in mobile ad hoc networks: A control theory perspective. <i>Neurocomputing</i> , 2017 , 270, 66-74	5.4	
7	Embracing Channel Estimation in Multi-Packet Reception of ZigBee. <i>IEEE Transactions on Mobile Computing</i> , 2021 , 1-1	4.6	
6	TimelyRep: Timing deterministic replay for Android web applications. <i>Software Testing Verification and Reliability</i> , 2020 , 30, e1745	0.9	
5	Cross-Domain Noise Impact Evaluation for Black Box Two-Level Control CPS. <i>ACM Transactions on Cyber-Physical Systems</i> , 2019 , 3, 1-25	2.3	
4	Distributed Data Center Bandwidth Allocation for Cloud-Based Streaming. <i>IEEE Transactions on Sustainable Computing</i> , 2019 , 4, 263-276	3.5	
3	HyperCo: Optimizing Network Performance in ARM-Based Mobile Virtualization. <i>IEEE Transactions on Services Computing</i> , 2019 , 12, 131-143	4.8	
2	Design and Implementation of Smooth Renewable Power in Cloud Data Centers. <i>IEEE Transactions on Cloud Computing</i> , 2021 , 1-1	3.3	
1	SafePath: Exploiting Ubiquitous Smartphones to Avoid Vehicle-Pedestrian Collision. <i>IEEE Internet of Things Journal</i> , 2021 , 1-1	10.7	