Xue Liu

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.

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	Peer-to-Peer Energy Trading and Energy Conversion in Interconnected Multi-Energy Microgrids Using Multi-Agent Deep Reinforcement Learning. *IEEE Transactions on Smart Grid*, **2022**, 13, 715-727	10.7	9
156	Embracing Channel Estimation in Multi-Packet Reception of ZigBee. *IEEE Transactions on Mobile Computing*, **2021**, 1-1	4.6	
155	Partitioning-Based Scheduling of OpenMP Task Systems With Tied Tasks. *IEEE Transactions on Parallel and Distributed Systems*, **2021**, 32, 1322-1339	3.7	2
154	gRemote: Cloud rendering on GPU resource pool based on API-forwarding. *Journal of Systems Architecture*, **2021**, 116, 102055	5.5	1
153	AdSherlock: Efficient and Deployable Click Fraud Detection for Mobile Applications. *IEEE Transactions on Mobile Computing*, **2021**, 20, 1285-1297	4.6	4
152	Accelerating data filtering for database using FPGA. *Journal of Systems Architecture*, **2021**, 114, 101908	5.5	1
151	Design and Implementation of Smooth Renewable Power in Cloud Data Centers. *IEEE Transactions on Cloud Computing*, **2021**, 1-1	3.3	
150	Smart Futures based Resource Trading and Coalition Formation for Real-time Mobile Data Processing. *IEEE Transactions on Services Computing*, **2021**, 1-1	4.8	1
149	SafePath: Exploiting Ubiquitous Smartphones to Avoid Vehicle-Pedestrian Collision. *IEEE Internet of Things Journal*, **2021**, 1-1	10.7	
148	Efficient and Effective Dimension Control in Automotive Applications. *IEEE Transactions on Industrial Informatics*, **2020**, 1-1	11.9	2
147	Givs: Fine-Grained Gesture Control for Mobile Devices in Driving Environments. *IEEE Access*, **2020**, 8, 49239-49243	3.3	3
146	DeepFood: Food Image Analysis and Dietary Assessment via Deep Model. *IEEE Access*, **2020**, 8, 47477-47489	3.3	21
145	Accelerating Deep Learning Systems via Critical Set Identification and Model Compression. *IEEE Transactions on Computers*, **2020**, 1-1	2.5	2
144	Shapley Homology: Topological Analysis of Sample Influence for Neural Networks. *Neural Computation*, **2020**, 32, 1355-1378	2.9	3
143	Feature Statistics Guided Efficient Filter Pruning **2020**,		3
142	SafeWatch. *ACM Transactions on Cyber-Physical Systems*, **2020**, 4, 1-21	2.3	9
141	Exploiting Link Diversity for Performance-Aware and Repeatable Simulation in Low-Power Wireless Networks. *IEEE/ACM Transactions on Networking*, **2020**, 28, 2545-2558	3.8	2

140	TimelyRep: Timing deterministic replay for Android web applications. *Software Testing Verification and Reliability*, **2020**, 30, e1745	0.9	
139	Bulk Savings for Bulk Transfers: Minimizing the Energy-Cost for Geo-Distributed Data Centers. *IEEE Transactions on Cloud Computing*, **2020**, 8, 73-85	3.3	10
138	An Ensemble Learning-Based Vehicle Steering Detector Using Smartphones. *IEEE Transactions on Intelligent Transportation Systems*, **2020**, 21, 1964-1975	6.1	7
137	Survey of the low power wide area network technologies. *Journal of Network and Computer Applications*, **2020**, 149, 102459	7.9	20
136	Indoor Localization Based on Channel State Information **2019**,		2
135	Towards Secure Industrial IoT: Blockchain System With Credit-Based Consensus Mechanism. *IEEE Transactions on Industrial Informatics*, **2019**, 15, 3680-3689	11.9	224
134	Bandwidth and Energy Efficient Image Sharing for Situation Awareness in Disasters. *IEEE Transactions on Parallel and Distributed Systems*, **2019**, 30, 15-28	3.7	4
133	Improving Viability of Electric Taxis by Taxi Service Strategy Optimization: A Big Data Study of New York City. *IEEE Transactions on Intelligent Transportation Systems*, **2019**, 20, 817-829	6.1	18
132	Customer Baseline Load Estimation for Incentive-Based Demand Response Using Long Short-Term Memory Recurrent Neural Network **2019**,		1
131	Cross-Domain Noise Impact Evaluation for Black Box Two-Level Control CPS. *ACM Transactions on Cyber-Physical Systems*, **2019**, 3, 1-25	2.3	
130	Leaking your engine speed by spectrum analysis of real-Time scheduling sequences. *Journal of Systems Architecture*, **2019**, 97, 455-466	5.5	3
129	Distributed Data Center Bandwidth Allocation for Cloud-Based Streaming. *IEEE Transactions on Sustainable Computing*, **2019**, 4, 263-276	3.5	
128	HyperCo: Optimizing Network Performance in ARM-Based Mobile Virtualization. *IEEE Transactions on Services Computing*, **2019**, 12, 131-143	4.8	
127	SHOW **2018**, 1, 1-23		10
126	Proactive Doppler Shift Compensation in Vehicular Cyber-Physical Systems. *IEEE/ACM Transactions on Networking*, **2018**, 26, 807-818	3.8	5
125	An Empirical Evaluation of Rule Extraction from Recurrent Neural Networks. *Neural Computation*, **2018**, 30, 2568-2591	2.9	17
124	Joint adaptation framework in mobile ad hoc networks: A control theory perspective. *Neurocomputing*, **2017**, 270, 66-74	5.4	
123	SafeWatch **2017**,		11

122	Taming the inconsistency of Wi-Fi fingerprints for device-free passive indoor localization **2017**,		22
121	An Optimization Framework for Online Ride-Sharing Markets **2017**,		15
120	SunChase: Energy-Efficient Route Planning for Solar-Powered EVs **2017**,		6
119	Accurate Per-Packet Delay Tomography in Wireless Ad Hoc Networks. *IEEE/ACM Transactions on Networking*, **2017**, 25, 480-491	3.8	4
118	Whom to Blame? Automatic Diagnosis of Performance Bottlenecks on Smartphones. *IEEE Transactions on Mobile Computing*, **2017**, 16, 1773-1785	4.6	4
117	A High-Performance Deeply Pipelined Architecture for Elementary Transcendental Function Evaluation **2017**,		1
116	Every pixel counts: Fine-grained UI rendering analysis for mobile applications **2017**,		4
115	A multiple vehicle sensing approach for collision avoidance in progressively deployed vehicle networks **2017**,		1
114	iPath: Path Inference in Wireless Sensor Networks. *IEEE/ACM Transactions on Networking*, **2016**, 24, 517-528	3.8	8
113	Towards Reconstructing Routing Paths in Large Scale Sensor Networks. *IEEE Transactions on Computers*, **2016**, 65, 281-293	2.5	12
112	How cars talk louder, clearer and fairer: Optimizing the communication performance of connected vehicles via online synchronous control **2016**,		7
111	GreenPlanning: Optimal Energy Source Selection and Capacity Planning for Green Datacenters **2016**,		9
110	Smart Charging for Electric Vehicles: A Survey From the Algorithmic Perspective. *IEEE Communications Surveys and Tutorials*, **2016**, 18, 1500-1517	37.1	115
109	Efficiently Estimating Statistics of Points of Interests on Maps. *IEEE Transactions on Knowledge and Data Engineering*, **2016**, 28, 425-438	4.2	3
108	On-Line Event-Driven Scheduling for Electric Vehicle Charging via Park-and-Charge **2016**,		16
107	Cost-Efficient Remote Backup Services for Enterprise Clouds. *IEEE Transactions on Industrial Informatics*, **2016**, 12, 1650-1657	11.9	2
106	MixCPS: Mixed Time/Event-Triggered Architecture of Cyber Physical Systems. *Proceedings of the IEEE*, **2016**, 104, 923-937	14.3	13
105	Post-Deployment Anomaly Detection and Diagnosis in Networked Embedded Systems by Program Profiling and Symptom Mining. *IEEE Transactions on Parallel and Distributed Systems*, **2016**, 27, 3588-3601	3.7	6

104	Mosaic: A low-cost mobile sensing system for urban air quality monitoring **2016**,		76
103	Auc2Reserve: A Differentially Private Auction for Electric Vehicle Fast Charging Reservation (Invited Paper) **2016**,		10
102	A review on electric vehicles interacting with renewable energy in smart grid. *Renewable and Sustainable Energy Reviews*, **2015**, 51, 648-661	16.2	153
101	EnDAS: Efficient Encrypted Data Search as a Mobile Cloud Service. *IEEE Transactions on Emerging Topics in Computing*, **2015**, 3, 372-383	4.1	10
100	ISC: An Iterative Social Based Classifier for Adult Account Detection on Twitter. *IEEE Transactions on Knowledge and Data Engineering*, **2015**, 27, 1045-1056	4.2	7
99	Spatio-Temporal Load Balancing for Energy Cost Optimization in Distributed Internet Data Centers. *IEEE Transactions on Cloud Computing*, **2015**, 3, 387-397	3.3	35
98	The Design and Implementations of Locality-Aware Approximate Queries in Hybrid Storage Systems. *IEEE Transactions on Parallel and Distributed Systems*, **2015**, 26, 3194-3207	3.7	5
97	End-to-end delay analysis for networked systems. *Frontiers of Information Technology and Electronic Engineering*, **2015**, 16, 732-743	2.2	1
96	Solving the performance puzzle of DSRC multi-channel operations **2015**,		6
95	On optimal diversity in network-coding-based routing in wireless networks **2015**,		13
94	A Survey on Green-Energy-Aware Power Management for Datacenters. *ACM Computing Surveys*, **2015**, 47, 1-38	13.4	77
93	The answer is rolling on wheels: Modeling and performance evaluation of in-cabin Wi-Fi communications. *Vehicular Communications*, **2015**, 2, 13-26	5.7	5
92	Adaptive Power Management through Thermal Aware Workload Balancing in Internet Data Centers. *IEEE Transactions on Parallel and Distributed Systems*, **2015**, 26, 2400-2409	3.7	21
91	COMIC: Cost Optimization for Internet Content Multihoming. *IEEE Transactions on Parallel and Distributed Systems*, **2015**, 26, 1851-1860	3.7	12
90	Utilization Control and Optimization of Real-Time Embedded Systems. *Foundations and Trends in Electronic Design Automation*, **2015**, 9, 211-307	1	3
89	SmartEye: Real-time and efficient cloud image sharing for disaster environments **2015**,		30
88	Data preference matters: A new perspective of safety data dissemination in vehicular ad hoc networks **2015**,		24
87	Comprehensive understanding of operation cost reduction using energy storage for IDCs **2015**,		11

86	Distributed Deadline and Renewable Aware Electric Vehicle Demand Response in the Smart Grid **2015**,		12
85	BURSE: A Bursty and Self-Similar Workload Generator for Cloud Computing. *IEEE Transactions on Parallel and Distributed Systems*, **2015**, 26, 668-680	3.7	30
84	Dynamic Packet Length Control in Wireless Sensor Networks. *IEEE Transactions on Wireless Communications*, **2014**, 13, 1172-1181	9.6	25
83	Data Similarity-Aware Computation Infrastructure for the Cloud. *IEEE Transactions on Computers*, **2014**, 63, 3-16	2.5	9
82	A Survey on Geographic Load Balancing Based Data Center Power Management in the Smart Grid Environment. *IEEE Communications Surveys and Tutorials*, **2014**, 16, 214-233	37.1	96
81	Experimental Evaluation and Selection of Data Consistency Mechanisms for Hard Real-Time Applications on Multicore Platforms. *IEEE Transactions on Industrial Informatics*, **2014**, 10, 903-918	11.9	17
80	Quantity Versus Quality: Optimal Harvesting Wind Power for the Smart Grid. *Proceedings of the IEEE*, **2014**, 102, 1762-1776	14.3	39
79	Domo: Passive Per-Packet Delay Tomography in Wireless Ad-hoc Networks **2014**,		7
78	CityDrive: A map-generating and speed-optimizing driving system **2014**,		20
77	Electronic frog eye: Counting crowd using WiFi **2014**,		221
76	Design and Implementation of Holistic Scheduling and Efficient Storage for FlexRay. *IEEE Transactions on Parallel and Distributed Systems*, **2014**, 25, 2529-2539	3.7	8
75	Optimal Load Balancing and Energy Cost Management for Internet Data Centers in Deregulated Electricity Markets. *IEEE Transactions on Parallel and Distributed Systems*, **2014**, 25, 2659-2669	3.7	27
74	Predictive Electricity Cost Minimization Through Energy Buffering in Data Centers. *IEEE Transactions on Smart Grid*, **2014**, 5, 230-238	10.7	20
73	ANTELOPE: A Semantic-Aware Data Cube Scheme for Cloud Data Center Networks. *IEEE Transactions on Computers*, **2014**, 63, 2146-2159	2.5	13
72	An efficient sampling method for characterizing points of interests on maps **2014**,		8
71	Link Quality Aware Code Dissemination in Wireless Sensor Networks. *IEEE Transactions on Parallel and Distributed Systems*, **2014**, 25, 1776-1786	3.7	9
70	Blowing hard is not all we want: Quantity vs quality of wind power in the smart grid **2014**,		6
69	Aggrecode: Constructing route intersection for data reconstruction in erasure coded storage **2014**,		9

68	Intelligent joint spatio-temporal management of electric vehicle charging and data center power consumption **2014**,		4
67	Delay analysis in practical wireless network coding. *Wireless Communications and Mobile Computing*, **2014**, 14, 497-515	1.9	3
66	Temporal Load Balancing with Service Delay Guarantees for Data Center Energy Cost Optimization. *IEEE Transactions on Parallel and Distributed Systems*, **2014**, 25, 775-784	3.7	71
65	HBaseMQ: A distributed message queuing system on clouds with HBase **2013**,		6
64	Present or Future: Optimal Pricing for Spot Instances **2013**,		22
63	Reprogramming over Low Power Link Layer in Wireless Sensor Networks **2013**,		1
62	D2: Anomaly Detection and Diagnosis in Networked Embedded Systems by Program Profiling and Symptom Mining **2013**,		7
61	Pathfinder: Robust path reconstruction in large scale sensor networks with lossy links **2013**,		1
60	Exploiting Concurrency for Efficient Dissemination in Wireless Sensor Networks. *IEEE Transactions on Parallel and Distributed Systems*, **2013**, 24, 691-700	3.7	22
59	NetSimplex: Controller Fault Tolerance Architecture in Networked Control Systems. *IEEE Transactions on Industrial Informatics*, **2013**, 9, 346-356	11.9	28
58	Data center energy cost minimization: A spatio-temporal scheduling approach **2013**,		11
57	SyRaFa: Synchronous Rate and Frequency Adjustment for Utilization Control in Distributed Real-Time Embedded Systems. *IEEE Transactions on Parallel and Distributed Systems*, **2013**, 24, 1052-1061	3.7	1
56	Delay analysis and study of IEEE 802.11p based DSRC safety communication in a highway environment **2013**,		43
55	NEST: Locality-aware approximate query service for cloud computing **2013**,		16
54	Adaptive Sampling and Duty Cycling for Smartphone Accelerometer **2013**,		6
53	Performance and Reliability Analysis of IEEE 802.11p Safety Communication in a Highway Environment. *IEEE Transactions on Vehicular Technology*, **2013**, 62, 4198-4212	6.8	125
52	Towards Optimal Electric Demand Management for Internet Data Centers. *IEEE Transactions on Smart Grid*, **2012**, 3, 183-192	10.7	81
51	Coordinated Energy Cost Management of Distributed Internet Data Centers in Smart Grid. *IEEE Transactions on Smart Grid*, **2012**, 3, 50-58	10.7	102

50	AdaSynch: A General Adaptive Clock Synchronization Scheme Based on Kalman Filter for WSNs. *Wireless Personal Communications*, **2012**, 63, 217-239	1.9	6
49	Scheduling Heterogeneous Flows with Delay-Aware Deduplication for Avionics Applications. *IEEE Transactions on Parallel and Distributed Systems*, **2012**, 23, 1790-1802	3.7	15
48	eco-IDC: Trade Delay for Energy Cost with Service Delay Guarantee for Internet Data Centers **2012**,		5
47	From Offline toward Real-Time: A Hybrid Systems Model Checking and CPS Co-design Approach for Medical Device Plug-and-Play (MDPnP) **2012**,		15
46	Curbing Aggregate Member Flow Burstiness to Bound End-to-End Delay in Networks of TDMA Crossbar Real-Time Switches **2012**,		1
45	Dynamic Control of Electricity Cost with Power Demand Smoothing and Peak Shaving for Distributed Internet Data Centers **2012**,		19
44	TailCon: Power-Minimizing Tail Percentile Control of Response Time in Server Clusters **2012**,		4
43	Bulk data dissemination in wireless sensor networks: Modeling and analysis. *Computer Networks*, **2012**, 56, 2664-2676	5.4	15
42	D-Pro: Dynamic Data Center Operations With Demand-Responsive Electricity Prices in Smart Grid. *IEEE Transactions on Smart Grid*, **2012**, 3, 1743-1754	10.7	52
41	A MapReduce-supported network structure for data centers. *Concurrency Computation Practice and Experience*, **2012**, 24, 1271-1295	1.4	13
40	Data perturbation with state-dependent noise for participatory sensing **2012**,		18
39	CSS: Conditional State-Based Scheduling for Networked Control Systems **2012**,		1
38	HOSA: Holistic scheduling and analysis for scalable fault-tolerant FlexRay design **2012**,		1
37	PowerSleep: A Smart Power-Saving Scheme With Sleep for Servers Under Response Time Constraint. *IEEE Journal on Emerging and Selected Topics in Circuits and Systems*, **2011**, 1, 289-298	5.2	16
36	Hedging Against Uncertainty: A Tale of Internet Data Center Operations Under Smart Grid Environment. *IEEE Transactions on Smart Grid*, **2011**, 2, 555-563	10.7	46
35	Defending Against Traffic Analysis in Wireless Networks through Traffic Reshaping **2011**,		19
34	End-to-End Delay Analysis in Wireless Network Coding: A Network Calculus-Based Approach **2011**,		6
33	Exploiting concurrency for efficient dissemination in Wireless Sensor Networks **2011**,		2

32	Location Cheating: A Security Challenge to Location-Based Social Network Services **2011**,		58
31	Dynamic Power Management of Distributed Internet Data Centers in Smart Grid Environment **2011**,		1
30	A highly scalable bandwidth estimation of commercial hotspot access points **2011**,		11
29	Optimal Joint Multi-Path Routing and Sampling Rates Assignment for Real-Time Wireless Sensor Networks **2011**,		5
28	A real-time multicast routing scheme for multi-hop switched fieldbuses **2011**,		5
27	ARBOR: Hang Together Rather Than Hang Separately in 802.11 WiFi Networks **2010**,		6
26	Minimizing Electricity Cost: Optimization of Distributed Internet Data Centers in a Multi-Electricity-Market Environment **2010**,		268
25	Providing OS Support for Wireless Sensor Networks: Challenges and Approaches. *IEEE Communications Surveys and Tutorials*, **2010**, 12, 519-530	37.1	29
24	FIT: A Flexible, Lightweight, and Real-Time Scheduling System for Wireless Sensor Platforms. *IEEE Transactions on Parallel and Distributed Systems*, **2010**, 21, 126-138	3.7	10
23	Robust fuzzy CPU utilization control for dynamic workloads. *Journal of Systems and Software*, **2010**, 83, 1192-1204	3.3	6
22	A trust model based on fuzzy recommendation for mobile ad-hoc networks. *Computer Networks*, **2009**, 53, 2396-2407	5.4	95
21	A survey of multicast routing protocols for mobile Ad-Hoc networks. *IEEE Communications Surveys and Tutorials*, **2009**, 11, 78-91	37.1	160
20	SReD: A Secure REputation-based Dynamic Window Scheme for disruption-tolerant networks **2009**,		7
19	A Cluster-Based Protocol to Enforce Integrity and Preserve Privacy in Data Aggregation **2009**,		24
18	EUL: An Efficient and Universal Localization Method for Wireless Sensor Network **2009**,		5
17	Challenges Towards Elastic Power Management in Internet Data Centers **2009**,		63
16	Performance of Bulk Data Dissemination in Wireless Sensor Networks. *Lecture Notes in Computer Science*, **2009**, 356-369	0.9	11
15	Queueing-Model-Based Adaptive Control of Multi-Tiered Web Applications. *IEEE Transactions on Network and Service Management*, **2008**, 5, 157-167	4.8	15

14	ORTEGA: An Efficient and Flexible Software Fault Tolerance Architecture for Real-Time Control Systems **2008**,		4
13	ORTEGA: An Efficient and Flexible Online Fault Tolerance Architecture for Real-Time Control Systems. *IEEE Transactions on Industrial Informatics*, **2008**, 4, 213-224	11.9	22
12	Fuzzy trust recommendation based on collaborative filtering for mobile ad-hoc networks **2008**,		2
11	Lightning: A Hard Real-Time, Fast, and Lightweight Low-End Wireless Sensor Election Protocol for Acoustic Event Localization. *IEEE Transactions on Mobile Computing*, **2008**, 7, 570-584	4.6	15
10	Optimal Sampling Rate Assignment with Dynamic Route Selection for Real-Time Wireless Sensor Networks **2008**,		23
9	A Certificateless Signature Scheme for Mobile Wireless Cyber-Physical Systems **2008**,		14
8	Improving BitTorrent Traffic Performance by Exploiting Geographic Locality **2008**,		4
7	A Switch Design for Real-Time Industrial Networks **2008**,		17
6	Formal modeling and analysis of real-time resource-sharing protocols in Real-Time Maude. *Parallel and Distributed Processing Symposium (IPDPS), Proceedings of the International Conference on*, **2008**,		2
5	Efficient SAT-Based Mapping and Scheduling of Homogeneous Synchronous Dataflow Graphs for Throughput Optimization **2008**,		32
4	Translating Service Level Objectives to lower level policies for multi-tier services. *Cluster Computing* , **2008**, 11, 299-311	2.1	28
3	Research on multicast routing protocols for mobile ad-hoc networks. *Computer Networks*, **2008**, 52, 988-997	3.4	72
2	Building Robust Wireless LAN for Industrial Control with the DSSS-CDMA Cell Phone Network Paradigm. *IEEE Transactions on Mobile Computing*, **2007**, 6, 706-719	4.6	10
1	Integrating Adaptive Components: An Emerging Challenge in Performance-Adaptive Systems and a Server Farm Case-Study **2007**,		64