Kai Li

List of Publications by Year
in descending order

104 papers	32,619 citations	361413 20 h-index	276875 41 g-index
105 all docs	105 docs citations	105 times ranked	23756 citing authors

#	Article	IF	Citations
1	ImageNet: A large-scale hierarchical image database. , 2009, , .		29,755
2	ImageNet: A large-scale hierarchical image database. , 2009, , .		313
3	Diskless checkpointing. IEEE Transactions on Parallel and Distributed Systems, 1998, 9, 972-986.	5.6	260
4	Computational approaches to fMRI analysis. Nature Neuroscience, 2017, 20, 304-313.	14.8	185
5	Energy-Efficient Cooperative Relaying for Unmanned Aerial Vehicles. IEEE Transactions on Mobile Computing, 2016, 15, 1377-1386.	5.8	161
6	PARSEC vs. SPLASH-2: A quantitative comparison of two multithreaded benchmark suites on Chip-Multiprocessors. , 2008, , .		154
7	Targeted exploration and analysis of large cross-platform human transcriptomic compendia. Nature Methods, 2015, 12, 211-214.	19.0	137
8	A study of integrated prefetching and caching strategies. Performance Evaluation Review, 1995, 23, 188-197.	0.6	109
9	Linear Subspace Ranking Hashing for Cross-Modal Retrieval. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2017, 39, 1825-1838.	13.9	99
10	Energy Efficient Legitimate Wireless Surveillance of UAV Communications. IEEE Transactions on Vehicular Technology, 2019, 68, 2283-2293.	6.3	78
11	Wireless Power Transfer and Data Collection in Wireless Sensor Networks. IEEE Transactions on Vehicular Technology, 2018, 67, 2686-2697.	6.3	71
12	On-Board Deep Q-Network for UAV-Assisted Online Power Transfer and Data Collection. IEEE Transactions on Vehicular Technology, 2019, 68, 12215-12226.	6.3	69
13	Improving release-consistent shared virtual memory using automatic update. , 0, , .		61
14	Memory exclusion: optimizing the performance of checkpointing systems. Software - Practice and Experience, 1999, 29, 125-142.	3.6	56
15	Integrated production and delivery with single machine and multiple vehicles. Expert Systems With Applications, 2016, 57, 12-20.	7.6	46
16	Protected, user-level DMA for the SHRIMP network interface. , 0, , .		40
17	Joint Flight Cruise Control and Data Collection in UAV-Aided Internet of Things: An Onboard Deep Reinforcement Learning Approach. IEEE Internet of Things Journal, 2021, 8, 9787-9799.	8.7	39
18	Software support for virtual memory-mapped communication. , 0, , .		38

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19	Semantic Neighbor Graph Hashing for Multimodal Retrieval. IEEE Transactions on Image Processing, 2018, 27, 1405-1417.	9.8	34
20	Fair Scheduling for Data Collection in Mobile Sensor Networks with Energy Harvesting. IEEE Transactions on Mobile Computing, 2019, 18, 1274-1287.	5.8	30
21	An Experimental Study for Tracking Crowd in Smart Cities. IEEE Systems Journal, 2019, 13, 2966-2977.	4.6	28
22	OS support for general-purpose routers. , 0, , .		27
23	Full correlation matrix analysis (FCMA): An unbiased method for task-related functional connectivity. Journal of Neuroscience Methods, 2015, 251, 108-119.	2.5	26
24	Integrated production and delivery on parallel batching machines. European Journal of Operational Research, 2015, 247, 755-763.	5.7	26
25	Sparse multi-output Gaussian processes for online medical time series prediction. BMC Medical Informatics and Decision Making, 2020, 20, 152.	3.0	26
26	MC2: Multiple Clients on a Multilevel Cache. , 2008, , .		24
27	Temporal Order-Preserving Dynamic Quantization for Human Action Recognition from Multimodal Sensor Streams. , 2015, , .		24
28	LSTM-Characterized Deep Reinforcement Learning for Continuous Flight Control and Resource Allocation in UAV-Assisted Sensor Network. IEEE Internet of Things Journal, 2022, 9, 4179-4189.	8.7	23
29	Learning Label Preserving Binary Codes for Multimedia Retrieval. ACM Transactions on Multimedia Computing, Communications and Applications, 2018, 14, 1-23.	4.3	21
30	Continuous Maneuver Control and Data Capture Scheduling of Autonomous Drone in Wireless Sensor Networks. IEEE Transactions on Mobile Computing, 2022, 21, 2732-2744.	5.8	21
31	Reinforcement Learning for Scheduling Wireless Powered Sensor Communications. IEEE Transactions on Green Communications and Networking, 2019, 3, 264-274.	5.5	20
32	SenseFlow. , 2015, , .		19
33	Federated Learning for Energy-balanced Client Selection in Mobile Edge Computing. , 2021, , .		19
34	Proactive Eavesdropping via Jamming over HARQ-Based Communications. , 2017, , .		18
35	Optimal Rate-Adaptive Data Dissemination in Vehicular Platoons. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 4241-4251.	8.0	18
36	BrainIAK: The Brain Imaging Analysis Kit. , 2022, 2021, .		18

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37	Deep-Graph-Based Reinforcement Learning for Joint Cruise Control and Task Offloading for Aerial Edge Internet of Things (EdgeIoT). IEEE Internet of Things Journal, 2022, 9, 21676-21686.	8.7	18
38	Software environments for cluster-based display systems. , 0, , .		17
39	EPLA: Energy-balancing packets scheduling for airborne relaying networks. , 2015, , .		17
40	Joint Communication Scheduling and Velocity Control in Multi-UAV-Assisted Sensor Networks: A Deep Reinforcement Learning Approach. IEEE Transactions on Vehicular Technology, 2021, 70, 10986-10998.	6.3	17
41	ThingStore. , 2015, , .		16
42	Secret Key Agreement for Data Dissemination in Vehicular Platoons. IEEE Transactions on Vehicular Technology, 2019, 68, 9060-9073.	6.3	16
43	Deep Q-Learning based Resource Management in UAV-assisted Wireless Powered IoT Networks. , 2020, , .		16
44	Online Velocity Control and Data Capture of Drones for the Internet of Things: An Onboard Deep Reinforcement Learning Approach. IEEE Vehicular Technology Magazine, 2021, 16, 49-56.	3.4	16
45	Integrated parallel prefetching and caching. Performance Evaluation Review, 1996, 24, 262-263.	0.6	15
46	UTLB. ACM SIGPLAN Notices, 1998, 33, 193-204.	0.2	14
47	What's Making that Sound?. , 2014, , .		14
48	LCD: Low Latency Command Dissemination for a Platoon of Vehicles. , 2018, , .		13
49	Design and Implementation of Secret Key Agreement for Platoon-based Vehicular Cyber-physical Systems. ACM Transactions on Cyber-Physical Systems, 2020, 4, 1-20.	2.5	13
50	Design of Cloud-Connected IoT System for Smart Buildings on Energy Management (Invited paper). EAI Endorsed Transactions on Industrial Networks and Intelligent Systems, 2016, 3, 150813.	1.9	13
51	A simulated annealing approach to minimize the maximum lateness on uniform parallel machines. Mathematical and Computer Modelling, 2011, 53, 854-860.	2.0	12
52	Spatial and temporal analysis of urban space utilization with renewable wireless sensor network. , 2016, , .		12
53	PELE: Power efficient legitimate eavesdropping via jamming in UAV communications. , 2017, , .		12
54	Eavesdropping and Jamming Selection Policy for Suspicious UAVs Based on Low Power Consumption over Fading Channels. Sensors, 2019, 19, 1126.	3.8	12

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55	Onboard Double Q-Learning for Airborne Data Capture in Wireless Powered IoT Networks. IEEE Networking Letters, 2020, 2, 71-75.	1.9	12
56	Design and implementation of NX message passing using Shrimp virtual memory mapped communication. , 0, , .		11
57	Automatic alignment of high-resolution multi-projector displays using an uncalibrated camera. , 0, , .		11
58	Onboard Deep Deterministic Policy Gradients for Online Flight Resource Allocation of UAVs. IEEE Networking Letters, 2020, 2, 106-110.	1.9	11
59	Memory exclusion: optimizing the performance of checkpointing systems. , 1999, 29, 125.		11
60	Understanding crowd density with a smartphone sensing system. , 2018, , .		10
61	Cooperative Secret Key Generation for Platoon-Based Vehicular Communications. , 2019, , .		10
62	BloothAir. ACM Transactions on Cyber-Physical Systems, 2021, 5, 1-22.	2.5	10
63	Experiences with VI communication for database storage. , 0, , .		9
64	Reliable positioning with hybrid antenna model for aerial wireless sensor and actor networks. , 2014, , .		9
65	Two virtual memory mapped network interface designs. , 0, , .		7
66	Early experience with message-passing on the SHRIMP multicomputer. Computer Architecture News, 1996, 24, 296-307.	2.5	7
67	Performance measurements for multithreaded programs. Performance Evaluation Review, 1998, 26, 161-170.	0.6	7
68	Relaxed consistency and coherence granularity in DSM systems. ACM SIGPLAN Notices, 1997, 32, 193-205.	0.2	6
69	Viewing the Larger Context of Genomic Data through Horizontal Integration. Proceedings / International Conference on Information Visualisation, 2007, , .	0.0	6
70	Real-time full correlation matrix analysis of fMRI data. , 2016, , .		6
71	SWPT: A Joint-Scheduling Model for Wireless Powered Sensor Networks. , 2017, , .		6
72	Cooperative Key Generation for Data Dissemination in Cyber-Physical Systems. , 2018, , .		6

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73	Proactive Eavesdropping via Jamming for Trajectory Tracking of UAVs. , 2019, , .		6
74	Poster Abstract: Multi-Drone Assisted Internet of Things Testbed Based on Bluetooth 5 Communications. , 2020, , .		6
75	Thread scheduling for cache locality. Operating Systems Review (ACM), 1996, 30, 60-71.	1.9	5
76	Reliable communications in aerial sensor networks by using a hybrid antenna. , 2012, , .		5
77	WTA Hash-Based Multimodal Feature Fusion for 3D Human Action Recognition. , 2015, , .		5
78	On the design of MAC protocol and transmission scheduling for Internet of Things. , 2016, , .		5
79	Confidentiality and Timeliness of Data Dissemination in Platoon-based Vehicular Cyber-Physical Systems. IEEE Network, 2021, 35, 248-254.	6.9	5
80	Î²-FSOM: Fair Link Scheduling Optimization for Energy-Aware Data Collection in Mobile Sensor Networks. Lecture Notes in Computer Science, 2014, , 17-33.	1.3	5
81	Deep Reinforcement Learning for Real-Time Trajectory Planning in UAV Networks. , 2020, , .		5
82	Employing Intelligent Aerial Data Aggregators for the Internet of Things: Challenges and Solutions. IEEE Internet of Things Magazine, 2022, 5, 136-141.	2.6	5
83	Multiprocessor Main Memory Transaction Processing. , 0, , .		4
84	Design choices in the SHRIMP system. Computer Architecture News, 1998, 26, 330-341.	2.5	4
85	Reliable transmissions in AWSNs by using O-BESPAR hybrid antenna. Pervasive and Mobile Computing, 2016, 30, 151-165.	3.3	4
86	Buffer-Aware Scheduling for UAV Relay Networks with Energy Fairness. , 2020, , .		4
87	Mobile Data Collection Networks for Wireless Sensors. Communications in Computer and Information Science, 2012, , 200-211.	0.5	3
88	Mobility-assisted Distributed Sensor Clustering for energy-efficient wireless sensor networks. , 2013, , .		3
89	Cross-modal hashing through ranking subspace learning. , 2016, , .		3
90	COMMIT. , 2017, , .		3

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91	Using Coalition Games for QoS Aware Scheduling in mmWave WPANs. , 2018, , .		3
92	Fog Computing-Assisted Energy-Efficient Resource Allocation for High-Mobility MIMO-OFDMA Networks. Wireless Communications and Mobile Computing, 2018, 2018, 1-8.	1.2	3
93	Deep Q-Networks for Aerial Data Collection in Multi-UAV-Assisted Wireless Sensor Networks. , 2021, , .		3
94	Understanding application performance on shared virtual memory systems. Computer Architecture News, 1996, 24, 122-133.	2.5	2
95	Privacy-preserving control message dissemination for PVCPS. , 2019, , .		2
96	HydraDoctor. , 2019, , .		2
97	A Practical Secret Key Management for Multihop Drone Relay Systems based on Bluetooth Low Energy. , 2021, , .		2
98	RT-Cloud: A cloud-based software framework to simplify and standardize real-time fMRI. NeuroImage, 2022, 257, 119295.	4.2	2
99	Thread scheduling for cache locality. ACM SIGPLAN Notices, 1996, 31, 60-71.	0.2	1
100	Evaluation of memory system extensions. Computer Architecture News, 1991, 19, 84-93.	2.5	0
101	Evaluating multi-port frame buffer designs for a mesh-connected multicomputer. Computer Architecture News, 1995, 23, 96-105.	2.5	0
102	UTLB. Operating Systems Review (ACM), 1998, 32, 193-204.	1.9	0
103	Micro Air Vehicles. Internatinoal Journal of Sensor Networks and Data Communications, 2016, 5, .	0.1	0
104	Applications, storage hierarchy, and integration. ACM Computing Surveys, 1996, 28, 30.	23.0	0