

Ling Liu

List of Publications by Year in descending order

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76
papers

2,175
citations

516561

16
h-index

315616

38
g-index

76
all docs

76
docs citations

76
times ranked

1763
citing authors

#	ARTICLE	IF	CITATIONS
1	YISHAN: Managing Large-scale Cloud Database Instances via Machine Learning. IEEE Transactions on Services Computing, 2023, 16, 724-738.	3.2	1
2	A Comparative Measurement Study of Deep Learning as a Service Framework. IEEE Transactions on Services Computing, 2022, 15, 551-566.	3.2	27
3	Fast Compressive Spectral Clustering for Large-Scale Sparse Graph. IEEE Transactions on Big Data, 2022, 8, 193-202.	4.4	5
4	Elastic Resource Provisioning Using Data Clustering in Cloud Service Platform. IEEE Transactions on Services Computing, 2022, 15, 1578-1591.	3.2	11
5	An Edge Storage Acceleration Service for Collaborative Mobile Devices. IEEE Transactions on Services Computing, 2022, 15, 1993-2006.	3.2	15
6	Multi-GPU Efficient Indexing For Maximizing Parallelism of High Dimensional Range Query Services. IEEE Transactions on Services Computing, 2022, 15, 2910-2924.	3.2	3
7	Learning Text-image Joint Embedding for Efficient Cross-modal Retrieval with Deep Feature Engineering. ACM Transactions on Information Systems, 2022, 40, 1-27.	3.8	4
8	Gradient Leakage Attack Resilient Deep Learning. IEEE Transactions on Information Forensics and Security, 2022, 17, 303-316.	4.5	15
9	Covert Secret-Key Agreement Protocol Based on the Underwater Acoustic Channel. IEEE Wireless Communications Letters, 2022, 11, 1384-1388.	3.2	0
10	Distributed Edge System Orchestration for Web-based Mobile Augmented Reality Services. IEEE Transactions on Services Computing, 2022, , 1-15.	3.2	6
11	Demystifying Membership Inference Attacks in Machine Learning as a Service. IEEE Transactions on Services Computing, 2021, 14, 2073-2089.	3.2	97
12	Bitcoin Transaction Forecasting With Deep Network Representation Learning. IEEE Transactions on Emerging Topics in Computing, 2021, 9, 1359-1371.	3.2	14
13	Chemical sectioning fluorescence tomography: high-throughput, high-contrast, multicolor, whole-brain imaging at subcellular resolution. Cell Reports, 2021, 34, 108709.	2.9	34
14	Bagging Recurrent Event Imputation for Repair of Imperfect Event Log with Missing Categorical Events. IEEE Transactions on Services Computing, 2021, , 1-1.	3.2	1
15	Gradient-Leakage Resilient Federated Learning. , 2021, , .		27
16	Efficient Deep Feature Calibration for Cross-Modal Joint Embedding Learning. , 2021, , .		0
17	Boosting Ensemble Accuracy by Revisiting Ensemble Diversity Metrics. , 2021, , .		14
18	Boosting Deep Ensemble Performance with Hierarchical Pruning. , 2021, , .		4

#	ARTICLE	IF	CITATIONS
19	Perception Poisoning Attacks in Federated Learning. , 2021, , .		5
20	The TSC-PFed Architecture for Privacy-Preserving FL. , 2021, , .		1
21	Parallel Detection for Efficient Video Analytics at the Edge. , 2021, , .		3
22	Security and Privacy on Blockchain. ACM Computing Surveys, 2020, 52, 1-34.	16.1	506
23	Robust Deep Learning Ensemble against Deception. IEEE Transactions on Dependable and Secure Computing, 2020, , 1-1.	3.7	13
24	DeepAdapter: A Collaborative Deep Learning Framework for the Mobile Web Using Context-Aware Network Pruning. , 2020, , .		18
25	Forecasting Day-Ahead Hourly Photovoltaic Power Generation Using Convolutional Self-Attention Based Long Short-Term Memory. Energies, 2020, 13, 4017.	1.6	20
26	Forecasting Photovoltaic Power Generation Using Satellite Images. Energies, 2020, 13, 6603.	1.6	19
27	Providing Fast Reachability Query Services with MGTAg: a Multi-Dimensional Graph Labeling Method. IEEE Transactions on Services Computing, 2020, , 1-1.	3.2	1
28	Hierarchical Orchestration of Disaggregated Memory. IEEE Transactions on Computers, 2020, 69, 844-855.	2.4	10
29	Multi-Party Secret Key Generation Over Underwater Acoustic Channels. IEEE Wireless Communications Letters, 2020, , 1-1.	3.2	11
30	Data Poisoning Attacks Against Federated Learning Systems. Lecture Notes in Computer Science, 2020, , 480-501.	1.0	200
31	Adversarial Objectness Gradient Attacks in Real-time Object Detection Systems. , 2020, , .		34
32	Decentralized Trust Management. ACM Computing Surveys, 2020, 53, 1-33.	16.1	21
33	LDP-Fed. , 2020, , .		165
34	Cross-Modal Joint Embedding with Diverse Semantics. , 2020, , .		0
35	Promoting High Diversity Ensemble Learning with EnsembleBench. , 2020, , .		7
36	Adversarial Deception in Deep Learning: Analysis and Mitigation. , 2020, , .		0

#	ARTICLE	IF	CITATIONS
37	Secure and Utility-Aware Data Collection with Condensed Local Differential Privacy. IEEE Transactions on Dependable and Secure Computing, 2019, , 1-1.	3.7	35
38	Leveraging Glocality for Fast Failure Recovery in Distributed RAM Storage. ACM Transactions on Storage, 2019, 15, 1-24.	1.4	9
39	Deception, Robustness and Trust in Big Data Fueled Deep Learning Systems. , 2019, , .		3
40	Denoising and Verification Cross-Layer Ensemble Against Black-box Adversarial Attacks. , 2019, , .		10
41	Demystifying Learning Rate Policies for High Accuracy Training of Deep Neural Networks. , 2019, , .		56
42	Effects of Differential Privacy and Data Skewness on Membership Inference Vulnerability. , 2019, , .		26
43	GRAHIES: Multi-Scale Graph Representation Learning with Latent Hierarchical Structure. , 2019, , .		2
44	Differentially Private and Utility Preserving Publication of Trajectory Data. IEEE Transactions on Mobile Computing, 2019, 18, 2315-2329.	3.9	62
45	Lightweight Indexing and Querying Services for Big Spatial Data. IEEE Transactions on Services Computing, 2019, 12, 343-355.	3.2	10
46	Sender-Receiver Role-Based Energy-Aware Scheduling for Internet of Underwater Things. IEEE Transactions on Emerging Topics in Computing, 2019, 7, 324-336.	3.2	36
47	SenseVault: A Three-tier Framework for Securing Mobile Underwater Sensor Networks. IEEE Transactions on Mobile Computing, 2018, 17, 2632-2645.	3.9	13
48	Towards Bandwidth Guarantee for Virtual Clusters Under Demand Uncertainty in Multi-Tenant Clouds. IEEE Transactions on Parallel and Distributed Systems, 2018, 29, 450-465.	4.0	37
49	Dynamic and Transparent Memory Sharing for Accelerating Big Data Analytics Workloads in Virtualized Cloud. , 2018, , .		4
50	Experimental Characterizations and Analysis of Deep Learning Frameworks. , 2018, , .		12
51	PrivacyZone: A Novel Approach to Protecting Location Privacy of Mobile Users. , 2018, , .		5
52	Storage Service Orchestration with Container Elasticity. , 2018, , .		2
53	Trust as a Service: Building and Managing Trust in the Internet of Things. , 2018, , .		5
54	Benchmarking Deep Learning Frameworks: Design Considerations, Metrics and Beyond. , 2018, , .		38

#	ARTICLE	IF	CITATIONS
55	MemFlex: A Shared Memory Swapper for High Performance VM Execution. IEEE Transactions on Computers, 2017, 66, 1645-1652.	2.4	14
56	Distributed Orchestration in Large-Scale IoT Systems. , 2017, , .		8
57	Deep Learning of Graphs with Ngram Convolutional Neural Networks. IEEE Transactions on Knowledge and Data Engineering, 2017, 29, 2125-2139.	4.0	36
58	Augmenting Amdahl's Second Law: A Theoretical Model to Build Cost-Effective Balanced HPC Infrastructure for Data-Driven Science. , 2017, , .		4
59	Privacy-Preserving Inductive Learning with Decision Trees. , 2017, , .		14
60	Plastic embedding immunolabeled large-volume samples for three-dimensional high-resolution imaging. Biomedical Optics Express, 2017, 8, 3583.	1.5	13
61	Tenants Attested Trusted Cloud Service. , 2016, , .		10
62	ESI-Cloud: Extending Virtual Machine Introspection for Integrating Multiple Security Services. , 2016, , .		3
63	Evaluation and Analysis of In-Memory Key-Value Systems. , 2016, , .		9
64	Persistence and Recovery for In-Memory NoSQL Services: A Measurement Study. , 2016, , .		5
65	Workload Adaptive Shared Memory Management for High Performance Network I/O in Virtualized Cloud. IEEE Transactions on Computers, 2016, 65, 3480-3494.	2.4	14
66	Road Network-Aware Spatial Alarms. IEEE Transactions on Mobile Computing, 2016, 15, 188-201.	3.9	6
67	Probabilistic Diffusion of Social Influence with Incentives. IEEE Transactions on Services Computing, 2014, 7, 387-400.	3.2	33
68	Extracting top-k most influential nodes by activity analysis. , 2014, , .		7
69	Dynamic and fast processing of queries on large-scale RDF data. Knowledge and Information Systems, 2014, 41, 311-334.	2.1	12
70	Computing infrastructure for big data processing. Frontiers of Computer Science, 2013, 7, 165-170.	1.6	42
71	Residency-Aware Virtual Machine Communication Optimization: Design Choices and Techniques. , 2013, , .		7
72	Big data analytics as a service: Exploring reuse opportunities. , 2013, , .		2

#	ARTICLE	IF	CITATIONS
73	TripleBit. Proceedings of the VLDB Endowment, 2013, 6, 517-528.	2.1	122
74	Execution Assurance for Massive Computing Tasks. IEICE Transactions on Information and Systems, 2010, E93-D, 1343-1351.	0.4	3
75	Understanding Performance Interference of I/O Workload in Virtualized Cloud Environments. , 2010, , .		134
76	Infopipes: the ISL/ISG implementation evaluation. , 0, , .		0