

Kam-Yiu Lam

List of Publications by Year in descending order

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127
papers

1,111
citations

471061

17
h-index

580395

25
g-index

127
all docs

127
docs citations

127
times ranked

684
citing authors

#	ARTICLE	IF	CITATIONS
1	Hypergraph-based data link layer scheduling for reliable packet delivery in wireless sensing and control networks with end-to-end delay constraints. <i>Information Sciences</i> , 2014, 278, 34-55.	4.0	47
2	Concurrency control in mobile distributed real-time database systems. <i>Information Systems</i> , 2000, 25, 261-286.	2.4	44
3	Deferrable Scheduling for Maintaining Real-Time Data Freshness: Algorithms, Analysis, and Results. <i>IEEE Transactions on Computers</i> , 2008, 57, 952-964.	2.4	43
4	Advances in Automation Technologies for Lower Extremity Neurorehabilitation: A Review and Future Challenges. <i>IEEE Reviews in Biomedical Engineering</i> , 2018, 11, 289-305.	13.1	43
5	Cache invalidation scheme for mobile computing systems with real-time data. <i>SIGMOD Record</i> , 2000, 29, 34-39.	0.7	41
6	Data Rate Fingerprinting: A WLAN-Based Indoor Positioning Technique for Passive Localization. <i>IEEE Sensors Journal</i> , 2019, 19, 6517-6529.	2.4	33
7	Activity tracking and monitoring of patients with alzheimer's disease. <i>Multimedia Tools and Applications</i> , 2017, 76, 489-521.	2.6	32
8	A Deferrable Scheduling Algorithm for Real-Time Transactions Maintaining Data Freshness. , 0, , .		31
9	Priority Scheduling of Transactions in Distributed Real-Time Databases. <i>Real-Time Systems</i> , 1999, 16, 31-62.	1.1	28
10	An effective signal strength-based wireless location estimation system for tracking indoor mobile users. <i>Journal of Computer and System Sciences</i> , 2013, 79, 1005-1016.	0.9	27
11	Resolving Executing-Committing Conflicts in Distributed Real-time Database Systems. <i>Computer Journal</i> , 1999, 42, 674-692.	1.5	25
12	On Using Real-Time Static Locking Protocols for Distributed Real-Time Databases. <i>Real-Time Systems</i> , 1997, 13, 141-166.	1.1	24
13	Comments on "Distributed Bayesian Algorithms for Fault-Tolerant Event Region Detection in Wireless Sensor Networks". <i>IEEE Transactions on Computers</i> , 2005, 54, 1182-1183.	2.4	24
14	Schedulability Analysis of Deferrable Scheduling Algorithms for Maintaining Real-Time Data Freshness. <i>IEEE Transactions on Computers</i> , 2014, 63, 979-994.	2.4	22
15	Performance evaluation of a new distributed deadlock detection algorithm. <i>SIGMOD Record</i> , 1994, 23, 21-26.	0.7	22
16	Broadcast of consistent data to read-only transactions from mobile clients. , 1999, , .		21
17	Adaptive co-scheduling for periodic application and update transactions in real-time database systems. <i>Journal of Systems and Software</i> , 2012, 85, 1729-1743.	3.3	21
18	On Co-Scheduling of Update and Control Transactions in Real-Time Sensing and Control Systems: Algorithms, Analysis, and Performance. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2013, 25, 2325-2342.	4.0	21

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19	Online Mode Switch Algorithms for Maintaining Data Freshness in Dynamic Cyber-Physical Systems. IEEE Transactions on Knowledge and Data Engineering, 2016, 28, 756-769.	4.0	21
20	Maintaining temporal consistency of discrete objects in soft real-time database systems. IEEE Transactions on Computers, 2003, 52, 373-389.	2.4	20
21	An efficient location update mechanism for continuous queries over moving objects. Information Systems, 2007, 32, 593-620.	2.4	19
22	Approaches for broadcasting temporal data in mobile computing systems. Journal of Systems and Software, 2000, 51, 175-189.	3.3	18
23	Evaluation of concurrency control strategies for mixed soft real-time database systems. Information Systems, 2002, 27, 123-149.	2.4	16
24	Maintaining data temporal consistency in distributed real-time systems. Real-Time Systems, 2012, 48, 387-429.	1.1	16
25	An efficient method for generating location updates for processing of location-dependent continuous queries. , 2001, , .		15
26	Statistical Quality of Service Guarantee for Temporal Consistency of Real-Time Data Objects. , 0, , .		14
27	An effective fixed priority co-scheduling algorithm for periodic update and application transactions. Computing (Vienna/New York), 2013, 95, 993-1018.	3.2	14
28	Real-time optimistic concurrency control protocol with dynamic adjustment of serialization order. , 0, , .		12
29	Concurrency control strategies for ordered data broadcast in mobile computing systems. Information Systems, 2004, 29, 207-234.	2.4	12
30	DESH: overhead reduction algorithms for deferrable scheduling. Real-Time Systems, 2010, 44, 1-25.	1.1	12
31	Block-Based Multi-Version B ⁺ -Tree for Flash-Based Embedded Database Systems. IEEE Transactions on Computers, 2015, 64, 925-940.	2.4	12
32	Sensor node selection for execution of continuous probabilistic queries in wireless sensor networks. , 2004, , .		11
33	<i>SmartMood</i> : Toward Pervasive Mood Tracking and Analysis for Manic Episode Detection. IEEE Transactions on Human-Machine Systems, 2015, 45, 126-131.	2.5	11
34	Impact of high speed network on performance of real-time concurrency control protocol. Journal of Systems Architecture, 1996, 42, 531-546.	2.5	10
35	Priority and deadline assignment to triggered transactions in distributed real-time active databases. Journal of Systems and Software, 2000, 51, 49-60.	3.3	10
36	A multi-version data model for executing real-time transactions in a mobile environment. , 2001, , .		10

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37	Efficient location area planning for cellular networks with hierarchical location databases. <i>Computer Networks</i> , 2004, 45, 715-730.	3.2	10
38	Temporal pre-fetching of dynamic web pages. <i>Information Systems</i> , 2006, 31, 149-169.	2.4	10
39	Quality of service guarantee for temporal consistency of real-time transactions. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2006, 18, 1097-1110.	4.0	10
40	Garbage Collection for Multiversion Index in Flash-Based Embedded Databases. <i>ACM Transactions on Design Automation of Electronic Systems</i> , 2014, 19, 1-27.	1.9	10
41	SmartMind: Activity Tracking and Monitoring for Patients with Alzheimer's Disease. , 2015, , .		10
42	A fair and adaptive scheduling protocol for video stream transmission in mobile environment. , 0, , .		9
43	A statistics-based sensor selection scheme for continuous probabilistic queries in sensor networks. <i>Real-Time Systems</i> , 2006, 35, 33-58.	1.1	9
44	Real time video frames allocation in mobile networks using cooperative pre-fetching. <i>Multimedia Tools and Applications</i> , 2007, 32, 329-352.	2.6	9
45	Distributed real-time optimistic concurrency control protocol. , 0, , .		8
46	Comparing two-phase locking and optimistic concurrency control protocols in multiprocessor real-time databases. , 0, , .		8
47	Approximate path searching for supporting shortest path queries on road networks. <i>Information Sciences</i> , 2015, 325, 409-428.	4.0	8
48	Packet Delivery Ratio Fingerprinting: Toward Device-Invariant Passive Indoor Localization. <i>IEEE Internet of Things Journal</i> , 2020, 7, 2877-2889.	5.5	8
49	Transaction processing in wireless distributed real-time databases. , 0, , .		7
50	Location management in cellular mobile computing systems with dynamic hierarchical location databases. <i>Journal of Systems and Software</i> , 2004, 69, 159-171.	3.3	7
51	Adaptive schemes for location update generation in execution location-dependent continuous queries. <i>Journal of Systems and Software</i> , 2006, 79, 441-453.	3.3	7
52	The design of a wireless real-time visual surveillance system. <i>Multimedia Tools and Applications</i> , 2007, 33, 175-199.	2.6	7
53	On using broadcast index for efficient execution of shortest path continuous queries. <i>Information Systems</i> , 2015, 49, 142-162.	2.4	7
54	A cross-layer design for data dissemination in vehicular ad hoc networks. <i>Neural Computing and Applications</i> , 2019, 31, 2869-2887.	3.2	7

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55	Capturing and Analyzing Pervasive Data for SmartHealth. , 2014, , .		6
56	Multiple Power Path Loss Fingerprinting for Sensor-Based Indoor Localization. , 2017, 1, 1-4.		6
57	Data broadcast for time-constrained read-only transactions in mobile computing systems. , 0, , .		5
58	Enhanced multi-version data broadcast schemes for time-constrained mobile computing systems. , 0, , .		5
59	On Using Handoff Statistics and Velocity for Location Management in Cellular Wireless Networks. Computer Journal, 2005, 48, 84-100.	1.5	5
60	Source-wise round-trip spanners. Information Processing Letters, 2017, 124, 42-45.	0.4	5
61	RT-DAP: A Real-Time Data Analytics Platform for Large-Scale Industrial Process Monitoring and Control. , 2018, , .		5
62	Optimistic concurrency control protocol for real-time databases. Journal of Systems and Software, 1997, 38, 119-131.	3.3	4
63	On using similarity for resolving conflicts at commit in mixed distributed real-time databases. , 0, , .		4
64	Adaptive channel allocation methods for distributed MPEG player system over a cellular radio network. , 0, , .		4
65	RETINA. SIGMOD Record, 2001, 30, 615.	0.7	4
66	CONCURRENCY CONTROL FOR MOBILE SYSTEMS WITH DATA BROADCAST. Journal of Interconnection Networks, 2001, 02, 253-267.	0.6	4
67	Scheduling video stream transmissions for distributed playback over mobile cellular networks. , 0, , .		4
68	Strategies for resolving inter-class data conflicts in mixed real-time database systems. Journal of Systems and Software, 2002, 61, 1-14.	3.3	4
69	Space-Efficient Multiversion Index Scheme for PCM-based Embedded Database Systems. , 2014, , .		4
70	Space-Efficient Index Scheme for PCM-Based Multiversion Databases in Cyber-Physical Systems. Transactions on Embedded Computing Systems, 2017, 16, 1-26.	2.1	4
71	Deterministic improved round-trip spanners. Information Processing Letters, 2018, 129, 57-60.	0.4	4
72	Resolving conflicts with committing transactions in distributed real-time databases. , 0, , .		3

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73	An analysis of lock-based and optimistic concurrency control protocols in multiprocessor real-time databases. <i>Journal of Systems and Software</i> , 1998, 42, 273-286.	3.3	3
74	On using similarity for concurrency control in real-time database systems. <i>Journal of Systems and Software</i> , 1998, 43, 223-232.	3.3	3
75	A similarity-based protocol for concurrency control in mobile distributed real-time database systems. <i>Lecture Notes in Computer Science</i> , 1999, , 329-338.	1.0	3
76	A conditional abortable priority ceiling protocol for scheduling mixed real-time tasks. <i>Journal of Systems Architecture</i> , 2000, 46, 573-585.	2.5	3
77	The Reduced Ceiling Protocol for Concurrency Control in Real-time Databases with Mixed Transactions. <i>Computer Journal</i> , 2000, 43, 65-80.	1.5	3
78	Processing of location-dependent continuous queries on real-time spatial data: the view from RETINA. , 0, , .		3
79	A Statistics-Based Sensor Selection Scheme for Continuous Probabilistic Queries in Sensor Networks. , 0, , .		3
80	A filter-based protocol for continuous queries over imprecise location data. , 2012, , .		3
81	A Pervasive Promotion Model for Personalized Promotion Systems on Using WLAN Localization and NFC Techniques. <i>Mobile Information Systems</i> , 2015, 2015, 1-13.	0.4	3
82	Linked Block-based Multiversion B-Tree index for PCM-based embedded databases. <i>Journal of Systems Architecture</i> , 2015, 61, 383-397.	2.5	3
83	Detecting Symptom Errors in Neural Machine Translation of Patient Health Information on Depressive Disorders: Developing Interpretable Bayesian Machine Learning Classifiers. <i>Frontiers in Psychiatry</i> , 2021, 12, 771562.	1.3	3
84	Adaptive data broadcast strategy for transactions with multiple data requests in mobile computing environments. , 0, , .		3
85	Virtual deadline assignment in distributed real-time database systems. , 0, , .		2
86	Impact of priority assignment on optimistic concurrency control in distributed real-time databases. , 0, , .		2
87	A conditional abortable priority ceiling protocol for real-time systems with mixed tasks. , 0, , .		2
88	READS: a prototyping environment for real-time active applications. , 0, , .		2
89	Real-time data access control on B-tree index structures. , 1999, , .		2
90	Multi-disk scheduling for time-constrained requests in RAID-0 devices. <i>Journal of Systems and Software</i> , 2005, 76, 237-250.	3.3	2

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91	Real-Time Task Scheduling for SMT Systems. , 0, , .		2
92	On Least Idle Slot First Co-scheduling of Update and Control Tasks in Real-Time Sensing and Control Systems. , 2011, , .		2
93	A Business Model for Personalized Promotion Systems on Using WLAN Localization and NFC Techniques. , 2013, , .		2
94	Energy-efficient air-indices for shortest path and distance queries on road networks. Information Systems, 2017, 71, 182-198.	2.4	2
95	On the VC-dimension of unique round-trip shortest path systems. Information Processing Letters, 2019, 145, 1-5.	0.4	2
96	Developing Machine Learning and Statistical Tools to Evaluate the Accessibility of Public Health Advice on Infectious Diseases among Vulnerable People. Computational Intelligence and Neuroscience, 2021, 2021, 1-14.	1.1	2
97	Probabilistic Prediction of Nonadherence to Psychiatric Disorder Medication from Mental Health Forum Data: Developing and Validating Bayesian Machine Learning Classifiers. Computational Intelligence and Neuroscience, 2022, 2022, 1-15.	1.1	2
98	The effect of resource contention on distributed database systems. Information and Software Technology, 1993, 35, 139-148.	3.0	1
99	Performance studies of concurrency control in distributed real-time database systems on ATM networks. , 0, , .		1
100	Performance studies of transmitting real-time MPEG-I video in ATM networks. , 0, , .		1
101	Priority Assignment in Distributed Real-time Databases Supporting Temporal Consistency. Integrated Computer-Aided Engineering, 1998, 5, 245-260.	2.5	1
102	Real-Time Access Control and Reservation on B-Tree Indexed Data. Real-Time Systems, 2000, 19, 245-281.	1.1	1
103	Designing inter-class concurrency control strategies for real-time database systems with mixed transactions. , 0, , .		1
104	Real-time multiple video player systems. , 0, , .		1
105	Location update generation in cellular mobile computing systems. , 0, , .		1
106	Channel de-allocation schemes for GSM/GPRS networks. Journal of Electronics, 2005, 22, 581-585.	0.2	1
107	A buffered-bandwidth approach for supporting real-time video streaming over cellular networks. Multimedia Tools and Applications, 2006, 28, 141-155.	2.6	1
108	Adaptive encoding scheme for real-time video streaming over mobile networks. , 2012, , .		1

#	ARTICLE	IF	CITATIONS
109	On Co-scheduling of Periodic Update and Application Transactions with Fixed Priority Assignment for Real-Time Monitoring. , 2012, , .		1
110	An effective cache scheduling scheme for improving the performance in multi-threaded processors. Journal of Systems Architecture, 2013, 59, 271-278.	2.5	1
111	Space-efficient multiversion index scheme for PCM-based embedded database systems. , 2014, , .		1
112	Garbage collection of multi-version indexed data on flash memory. Journal of Systems Architecture, 2014, 60, 630-643.	2.5	1
113	Scheduling of Triggered Transactions in Distributed Real-time Active Databases. Lecture Notes in Computer Science, 1998, , 119-140.	1.0	1
114	On using epsilon serializable locking protocol for concurrency control in real-time databases. , 0, , .		0
115	Approaches for scheduling of triggered transactions in real-time active database systems. , 0, , .		0
116	CONCURRENCY CONTROL FOR SYSTEM WITH DATA BROADCAST. , 2000, , .		0
117	On Using Buffered Bandwidth to Support Real-Time Mobile Video Playback in Cellular Networks. , 0, , .		0
118	Bandwidth Reservation Using Velocity and Handoff Statistics for Cellular Networks. Journal of Computer Science and Technology, 2006, 21, 1031-1039.	0.9	0
119	Garbage collection for multi-version index on flash memory. , 2014, , .		0
120	Garbage collection for multi-version index on flash memory. , 2014, , .		0
121	MVLevelDB: Using Log-Structured Tree to Support Temporal Queries in IoT. IEEE Internet of Things Journal, 2022, 9, 7815-7825.	5.5	0
122	On Using Temporal Consistency for Parallel Execution of Real-Time Queries in Wireless Sensor Systems. Lecture Notes in Computer Science, 2004, , 188-199.	1.0	0
123	Panel Session: Predictability in Active Real-Time/Temporal Databases. Lecture Notes in Computer Science, 1998, , 231-237.	1.0	0
124	Supporting Risk-Aware Use of Online Translation Tools in Delivering Mental Healthcare Services among Spanish-Speaking Populations. Computational Intelligence and Neuroscience, 2021, 2021, 1-13.	1.1	0
125	Quality Assurances of Probabilistic Queries. , 2007, , 189-210.		0
126	Improving Dialog System Grounded with Unstructured Knowledge by Domain Adaptive Pre-Training and Post-Ranking. International Journal of Humanoid Robotics, 2021, 18, ,	0.6	0

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127	H3Rec: Higher-Order Heterogeneous and Homogeneous Interaction Modeling for Group Recommendations of Web Services. IEEE Transactions on Services Computing, 2023, 16, 1212-1224.	3.2	0