

# 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	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
2	MVLevelDB: Using Log-Structured Tree to Support Temporal Queries in IoT. IEEE Internet of Things Journal, 2022, 9, 7815-7825.	5.5	0
3	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
4	Detecting Symptom Errors in Neural Machine Translation of Patient Health Information on Depressive Disorders: Developing Interpretable Bayesian Machine Learning Classifiers. Frontiers in Psychiatry, 2021, 12, 771562.	1.3	3
5	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
6	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
7	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
8	Packet Delivery Ratio Fingerprinting: Toward Device-Invariant Passive Indoor Localization. IEEE Internet of Things Journal, 2020, 7, 2877-2889.	5.5	8
9	Data Rate Fingerprinting: A WLAN-Based Indoor Positioning Technique for Passive Localization. IEEE Sensors Journal, 2019, 19, 6517-6529.	2.4	33
10	On the VC-dimension of unique round-trip shortest path systems. Information Processing Letters, 2019, 145, 1-5.	0.4	2
11	A cross-layer design for data dissemination in vehicular ad hoc networks. Neural Computing and Applications, 2019, 31, 2869-2887.	3.2	7
12	Deterministic improved round-trip spanners. Information Processing Letters, 2018, 129, 57-60.	0.4	4
13	RT-DAP: A Real-Time Data Analytics Platform for Large-Scale Industrial Process Monitoring and Control. , 2018, , .		5
14	Advances in Automation Technologies for Lower Extremity Neurorehabilitation: A Review and Future Challenges. IEEE Reviews in Biomedical Engineering, 2018, 11, 289-305.	13.1	43
15	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
16	Activity tracking and monitoring of patients with alzheimerâ€™s disease. Multimedia Tools and Applications, 2017, 76, 489-521.	2.6	32
17	Energy-efficient air-indices for shortest path and distance queries on road networks. Information Systems, 2017, 71, 182-198.	2.4	2
18	Source-wise round-trip spanners. Information Processing Letters, 2017, 124, 42-45.	0.4	5

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19	Multiple Power Path Loss Fingerprinting for Sensor-Based Indoor Localization. , 2017, 1, 1-4.		6
20	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
21	A Pervasive Promotion Model for Personalized Promotion Systems on Using WLAN Localization and NFC Techniques. Mobile Information Systems, 2015, 2015, 1-13.	0.4	3
22	On using broadcast index for efficient execution of shortest path continuous queries. Information Systems, 2015, 49, 142-162.	2.4	7
23	<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
24	Approximate path searching for supporting shortest path queries on road networks. Information Sciences, 2015, 325, 409-428.	4.0	8
25	SmartMind: Activity Tracking and Monitoring for Patients with Alzheimer's Disease. , 2015, , .		10
26	Linked Block-based Multiversion B-Tree index for PCM-based embedded databases. Journal of Systems Architecture, 2015, 61, 383-397.	2.5	3
27	Block-Based Multi-Version B <sup>+</sup> -Tree for Flash-Based Embedded Database Systems. IEEE Transactions on Computers, 2015, 64, 925-940.	2.4	12
28	Space-efficient multiversion index scheme for PCM-based embedded database systems. , 2014, , .		1
29	Space-Efficient Multiversion Index Scheme for PCM-based Embedded Database Systems. , 2014, , .		4
30	Garbage Collection for Multiversion Index in Flash-Based Embedded Databases. ACM Transactions on Design Automation of Electronic Systems, 2014, 19, 1-27.	1.9	10
31	Garbage collection for multi-version index on flash memory. , 2014, , .		0
32	Hypergraph-based data link layer scheduling for reliable packet delivery in wireless sensing and control networks with end-to-end delay constraints. Information Sciences, 2014, 278, 34-55.	4.0	47
33	Garbage collection for multi-version index on flash memory. , 2014, , .		0
34	Schedulability Analysis of Deferrable Scheduling Algorithms for Maintaining Real-Time Data Freshness. IEEE Transactions on Computers, 2014, 63, 979-994.	2.4	22
35	Garbage collection of multi-version indexed data on flash memory. Journal of Systems Architecture, 2014, 60, 630-643.	2.5	1
36	Capturing and Analyzing Pervasive Data for SmartHealth. , 2014, , .		6

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37	An effective fixed priority co-scheduling algorithm for periodic update and application transactions. Computing (Vienna/New York), 2013, 95, 993-1018.	3.2	14
38	A Business Model for Personalized Promotion Systems on Using WLAN Localization and NFC Techniques. , 2013, , .		2
39	An effective cache scheduling scheme for improving the performance in multi-threaded processors. Journal of Systems Architecture, 2013, 59, 271-278.	2.5	1
40	On Co-Scheduling of Update and Control Transactions in Real-Time Sensing and Control Systems: Algorithms, Analysis, and Performance. IEEE Transactions on Knowledge and Data Engineering, 2013, 25, 2325-2342.	4.0	21
41	An effective signal strength-based wireless location estimation system for tracking indoor mobile users. Journal of Computer and System Sciences, 2013, 79, 1005-1016.	0.9	27
42	A filter-based protocol for continuous queries over imprecise location data. , 2012, , .		3
43	Adaptive encoding scheme for real-time video streaming over mobile networks. , 2012, , .		1
44	On Co-scheduling of Periodic Update and Application Transactions with Fixed Priority Assignment for Real-Time Monitoring. , 2012, , .		1
45	Maintaining data temporal consistency in distributed real-time systems. Real-Time Systems, 2012, 48, 387-429.	1.1	16
46	Adaptive co-scheduling for periodic application and update transactions in real-time database systems. Journal of Systems and Software, 2012, 85, 1729-1743.	3.3	21
47	On Least Idle Slot First Co-scheduling of Update and Control Tasks in Real-Time Sensing and Control Systems. , 2011, , .		2
48	DESH: overhead reduction algorithms for deferrable scheduling. Real-Time Systems, 2010, 44, 1-25.	1.1	12
49	Deferrable Scheduling for Maintaining Real-Time Data Freshness: Algorithms, Analysis, and Results. IEEE Transactions on Computers, 2008, 57, 952-964.	2.4	43
50	An efficient location update mechanism for continuous queries over moving objects. Information Systems, 2007, 32, 593-620.	2.4	19
51	Real time video frames allocation in mobile networks using cooperative pre-fetching. Multimedia Tools and Applications, 2007, 32, 329-352.	2.6	9
52	The design of a wireless real-time visual surveillance system. Multimedia Tools and Applications, 2007, 33, 175-199.	2.6	7
53	Quality Assurances of Probabilistic Queries. , 2007, , 189-210.		0
54	Adaptive schemes for location update generation in execution location-dependent continuous queries. Journal of Systems and Software, 2006, 79, 441-453.	3.3	7

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55	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
56	A buffered-bandwidth approach for supporting real-time video streaming over cellular networks. <i>Multimedia Tools and Applications</i> , 2006, 28, 141-155.	2.6	1
57	Temporal pre-fetching of dynamic web pages. <i>Information Systems</i> , 2006, 31, 149-169.	2.4	10
58	Bandwidth Reservation Using Velocity and Handoff Statistics for Cellular Networks. <i>Journal of Computer Science and Technology</i> , 2006, 21, 1031-1039.	0.9	0
59	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
60	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
61	Channel de-allocation schemes for GSM/GPRS networks. <i>Journal of Electronics</i> , 2005, 22, 581-585.	0.2	1
62	On Using Handoff Statistics and Velocity for Location Management in Cellular Wireless Networks. <i>Computer Journal</i> , 2005, 48, 84-100.	1.5	5
63	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
64	Sensor node selection for execution of continuous probabilistic queries in wireless sensor networks. , 2004, , .		11
65	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
66	Concurrency control strategies for ordered data broadcast in mobile computing systems. <i>Information Systems</i> , 2004, 29, 207-234.	2.4	12
67	Efficient location area planning for cellular networks with hierarchical location databases. <i>Computer Networks</i> , 2004, 45, 715-730.	3.2	10
68	On Using Temporal Consistency for Parallel Execution of Real-Time Queries in Wireless Sensor Systems. <i>Lecture Notes in Computer Science</i> , 2004, , 188-199.	1.0	0
69	Maintaining temporal consistency of discrete objects in soft real-time database systems. <i>IEEE Transactions on Computers</i> , 2003, 52, 373-389.	2.4	20
70	Strategies for resolving inter-class data conflicts in mixed real-time database systems. <i>Journal of Systems and Software</i> , 2002, 61, 1-14.	3.3	4
71	Evaluation of concurrency control strategies for mixed soft real-time database systems. <i>Information Systems</i> , 2002, 27, 123-149.	2.4	16
72	RETINA. <i>SIGMOD Record</i> , 2001, 30, 615.	0.7	4

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73	CONCURRENCY CONTROL FOR MOBILE SYSTEMS WITH DATA BROADCAST. Journal of Interconnection Networks, 2001, 02, 253-267.	0.6	4
74	A multi-version data model for executing real-time transactions in a mobile environment. , 2001, , .		10
75	An efficient method for generating location updates for processing of location-dependent continuous queries. , 2001, , .		15
76	A conditional abortable priority ceiling protocol for scheduling mixed real-time tasks. Journal of Systems Architecture, 2000, 46, 573-585.	2.5	3
77	Concurrency control in mobile distributed real-time database systems. Information Systems, 2000, 25, 261-286.	2.4	44
78	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
79	Approaches for broadcasting temporal data in mobile computing systems. Journal of Systems and Software, 2000, 51, 175-189.	3.3	18
80	Real-Time Access Control and Reservation on B-Tree Indexed Data. Real-Time Systems, 2000, 19, 245-281.	1.1	1
81	CONCURRENCY CONTROL FOR SYSTEM WITH DATA BROADCAST. , 2000, , .		0
82	The Reduced Ceiling Protocol for Concurrency Control in Real-time Databases with Mixed Transactions. Computer Journal, 2000, 43, 65-80.	1.5	3
83	Cache invalidation scheme for mobile computing systems with real-time data. SIGMOD Record, 2000, 29, 34-39.	0.7	41
84	Resolving Executing-Committing Conflicts in Distributed Real-time Database Systems. Computer Journal, 1999, 42, 674-692.	1.5	25
85	Priority Scheduling of Transactions in Distributed Real-Time Databases. Real-Time Systems, 1999, 16, 31-62.	1.1	28
86	A similarity-based protocol for concurrency control in mobile distributed real-time database systems. Lecture Notes in Computer Science, 1999, , 329-338.	1.0	3
87	Broadcast of consistent data to read-only transactions from mobile clients. , 1999, , .		21
88	Real-time data access control on B-tree index structures. , 1999, , .		2
89	An analysis of lock-based and optimistic concurrency control protocols in multiprocessor real-time databases. Journal of Systems and Software, 1998, 42, 273-286.	3.3	3
90	On using similarity for concurrency control in real-time database systems. Journal of Systems and Software, 1998, 43, 223-232.	3.3	3

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91	Priority Assignment in Distributed Real-time Databases Supporting Temporal Consistency. Integrated Computer-Aided Engineering, 1998, 5, 245-260.	2.5	1
92	Scheduling of Triggered Transactions in Distributed Real-time Active Databases. Lecture Notes in Computer Science, 1998, , 119-140.	1.0	1
93	Panel Session: Predictability in Active Real-Time/Temporal Databases. Lecture Notes in Computer Science, 1998, , 231-237.	1.0	0
94	On Using Real-Time Static Locking Protocols for Distributed Real-Time Databases. Real-Time Systems, 1997, 13, 141-166.	1.1	24
95	Optimistic concurrency control protocol for real-time databases. Journal of Systems and Software, 1997, 38, 119-131.	3.3	4
96	Impact of high speed network on performance of real-time concurrency control protocol. Journal of Systems Architecture, 1996, 42, 531-546.	2.5	10
97	Performance evaluation of a new distributed deadlock detection algorithm. SIGMOD Record, 1994, 23, 21-26.	0.7	22
98	The effect of resource contention on distributed database systems. Information and Software Technology, 1993, 35, 139-148.	3.0	1
99	On using epsilon serializable locking protocol for concurrency control in real-time databases. , 0, , .		0
100	Performance studies of concurrency control in distributed real-time database systems on ATM networks. , 0, , .		1
101	Virtual deadline assignment in distributed real-time database systems. , 0, , .		2
102	Real-time optimistic concurrency control protocol with dynamic adjustment of serialization order. , 0, , .		12
103	Impact of priority assignment on optimistic concurrency control in distributed real-time databases. , 0, , .		2
104	Performance studies of transmitting real-time MPEG-I video in ATM networks. , 0, , .		1
105	Distributed real-time optimistic concurrency control protocol. , 0, , .		8
106	A conditional abortable priority ceiling protocol for real-time systems with mixed tasks. , 0, , .		2
107	Comparing two-phase locking and optimistic concurrency control protocols in multiprocessor real-time databases. , 0, , .		8
108	Resolving conflicts with committing transactions in distributed real-time databases. , 0, , .		3

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109	READS: a prototyping environment for real-time active applications. , 0, , .		2
110	Transaction processing in wireless distributed real-time databases. , 0, , .		7
111	On using similarity for resolving conflicts at commit in mixed distributed real-time databases. , 0, , .		4
112	Approaches for scheduling of triggered transactions in real-time active database systems. , 0, , .		0
113	Data broadcast for time-constrained read-only transactions in mobile computing systems. , 0, , .		5
114	Adaptive channel allocation methods for distributed MPEG player system over a cellular radio network. , 0, , .		4
115	Designing inter-class concurrency control strategies for real-time database systems with mixed transactions. , 0, , .		1
116	Real-time multiple video player systems. , 0, , .		1
117	Location update generation in cellular mobile computing systems. , 0, , .		1
118	A fair and adaptive scheduling protocol for video stream transmission in mobile environment. , 0, , .		9
119	Enhanced multi-version data broadcast schemes for time-constrained mobile computing systems. , 0, , .		5
120	Scheduling video stream transmissions for distributed playback over mobile cellular networks. , 0, , .		4
121	Processing of location-dependent continuous queries on real-time spatial data: the view from RETINA. , 0, , .		3
122	On Using Buffered Bandwidth to Support Real-Time Mobile Video Playback in Cellular Networks. , 0, , .		0
123	Statistical Quality of Service Guarantee for Temporal Consistency of Real-Time Data Objects. , 0, , .		14
124	A Deferrable Scheduling Algorithm for Real-Time Transactions Maintaining Data Freshness. , 0, , .		31
125	Real-Time Task Scheduling for SMT Systems. , 0, , .		2
126	A Statistics-Based Sensor Selection Scheme for Continuous Probabilistic Queries in Sensor Networks. , 0, , .		3

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127	Adaptive data broadcast strategy for transactions with multiple data requests in mobile computing environments. , 0, , .		3