

Robert W P Luk

List of Publications by Year in descending order

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Version: 2024-02-01

76
papers

1,337
citations

706676

14
h-index

425179

34
g-index

77
all docs

77
docs citations

77
times ranked

1167
citing authors

#	ARTICLE	IF	CITATIONS
1	Why is Information Retrieval a Scientific Discipline?. Foundations of Science, 2022, 27, 427-453.	0.4	1
2	A Comparison between Term-Independence Retrieval Models for Ad Hoc Retrieval. ACM Transactions on Information Systems, 2022, 40, 1-37.	3.8	0
3	A Principled Approach Using Fuzzy Set Theory for Passage-Based Document Retrieval. IEEE Transactions on Fuzzy Systems, 2021, 29, 1967-1977.	6.5	8
4	What Do We Mean by "True" in Scientific Realism?. Foundations of Science, 2020, 25, 845-856.	0.4	1
5	Context-Dependent Feature Values in Text Categorization. International Journal of Software Engineering and Knowledge Engineering, 2020, 30, 1199-1219.	0.6	3
6	To Explain or to Predict: Which One is Mandatory?. Foundations of Science, 2018, 23, 411-414.	0.4	2
7	On the Implications and Extensions of Luk's Theory and Model of Scientific Study. Foundations of Science, 2018, 23, 103-118.	0.4	2
8	A Theory of Scientific Study. Foundations of Science, 2017, 22, 11-38.	0.4	7
9	A context-dependent relevance model. Journal of the Association for Information Science and Technology, 2016, 67, 582-593.	1.5	6
10	Fast Forward Index Methods for Pseudo-Relevance Feedback Retrieval. ACM Transactions on Information Systems, 2015, 33, 1-33.	3.8	4
11	Beyond bag-of-words: Bigram-enhanced context-dependent term weights. Journal of the Association for Information Science and Technology, 2014, 65, 1134-1148.	1.5	8
12	A split-list approach for relevance feedback in information retrieval. Information Processing and Management, 2012, 48, 969-977.	5.4	3
13	Scalable, statistical storage allocation for extensible inverted file construction. Journal of Systems and Software, 2011, 84, 1082-1088.	3.3	5
14	Where to Put the Search Concepts in the Search Result Page?. Communications in Computer and Information Science, 2011, , 600-604.	0.4	0
15	Understanding Scientific Study via Process Modeling. Foundations of Science, 2010, 15, 49-78.	0.4	6
16	A new context-dependent term weight computed by boost and discount using relevance information. Journal of the Association for Information Science and Technology, 2010, 61, 2514-2530.	2.6	7
17	Building a framework for the probability ranking principle by a family of expected weighted rank. ACM Transactions on Information Systems, 2009, 27, 1-37.	3.8	5
18	Optimal Combination of Nested Clusters by a Greedy Approximation Algorithm. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2009, 31, 2083-2087.	9.7	0

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19	Discovering User Interface Requirements of Search Results for Mobile Clients by Contextual Inquiry. Lecture Notes in Computer Science, 2009, , 365-374.	1.0	1
20	On event space and rank equivalence between probabilistic retrieval models. Information Retrieval, 2008, 11, 539-561.	1.6	30
21	A new measure of clustering effectiveness: Algorithms and experimental studies. Journal of the Association for Information Science and Technology, 2008, 59, 390-406.	2.6	2
22	Dialogue act recognition using maximum entropy. Journal of the Association for Information Science and Technology, 2008, 59, 859-874.	2.6	4
23	Representing financial time series based on data point importance. Engineering Applications of Artificial Intelligence, 2008, 21, 277-300.	4.3	72
24	Re-examining the effects of adding relevance information in a relevance feedback environment. Information Processing and Management, 2008, 44, 1086-1116.	5.4	17
25	Interpreting TF-IDF term weights as making relevance decisions. ACM Transactions on Information Systems, 2008, 26, 1-37.	3.8	567
26	Improving weak ad-hoc queries using wikipedia as external corpus. , 2007, , .		53
27	Probability ranking principle via optimal expected rank. , 2007, , .		3
28	Distributional Similarity Model for Multi-modality Clustering in Social Media. , 2007, , .		3
29	A retrospective study of a hybrid document-context based retrieval model. Information Processing and Management, 2007, 43, 1308-1331.	5.4	28
30	Stock time series pattern matching: Template-based vs. rule-based approaches. Engineering Applications of Artificial Intelligence, 2007, 20, 347-364.	4.3	96
31	Efficient in-memory extensible inverted file. Information Systems, 2007, 32, 733-754.	2.4	17
32	Distributional Similarity Model for Multi-modality Clustering in Social Media. , 2007, , .		0
33	Non-parametric linear time-invariant system identification by discrete wavelet transforms. , 2006, 16, 303-319.		15
34	Integrating XML and CORBA to support collaborative writing using off-the-shelf editing software. Information Systems, 2006, 31, 465-488.	2.4	0
35	Probabilistic document-context based relevance feedback with limited relevance judgments. , 2006, , .		3
36	Adapting pivoted document-length normalization for query size. ACM Transactions on Asian Language Information Processing, 2006, 5, 245-263.	0.8	14

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37	Query-specific clustering of search results based on document-context similarity scores. , 2006, , .		2
38	FNDS: a dialogue-based system for accessing digested financial news. Journal of Systems and Software, 2005, 78, 180-193.	3.3	8
39	A multiple classifier approach to detect Chinese character recognition errors. Pattern Recognition, 2005, 38, 723-738.	5.1	4
40	Discovering "title-like" terms. Information Processing and Management, 2005, 41, 789-800.	5.4	4
41	Incremental stock time series data delivery and visualization. , 2005, , .		7
42	A retrospective study of probabilistic context-based retrieval. , 2005, , .		5
43	A HYBRID LANGUAGE MODEL BASED ON STATISTICS AND LINGUISTIC RULES. International Journal of Pattern Recognition and Artificial Intelligence, 2005, 19, 109-128.	0.7	3
44	Text Categorization Based on Subtopic Clusters. Lecture Notes in Computer Science, 2005, , 203-214.	1.0	4
45	Preventing Meaningless Stock Time Series Pattern Discovery by Changing Perceptually Important Point Detection. Lecture Notes in Computer Science, 2005, , 1171-1174.	1.0	15
46	Supporting metasearch with XSL. Journal of Systems and Software, 2004, 73, 159-168.	3.3	0
47	An Evolutionary Approach to Pattern-Based Time Series Segmentation. IEEE Transactions on Evolutionary Computation, 2004, 8, 471-489.	7.5	116
48	Semantic Role Labeling Using Maximum Entropy. Lecture Notes in Computer Science, 2004, , 954-961.	1.0	3
49	Bilingual legal document retrieval and management using XML. Software - Practice and Experience, 2003, 33, 41-59.	2.5	1
50	ASAB: a Chinese screen reader. Software - Practice and Experience, 2003, 33, 201-219.	2.5	3
51	A comparison of Chinese document indexing strategies and retrieval models. ACM Transactions on Asian Language Information Processing, 2002, 1, 225-268.	0.8	17
52	A survey in indexing and searching XML documents. Journal of the Association for Information Science and Technology, 2002, 53, 415-437.	2.6	55
53	Some considerations on guidelines for bilingual alignment and terminology extraction. , 2002, , .		1
54	Alignment and extraction of bilingual legal terminology from context profiles. , 2002, , .		0

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55	Compact Morphic Directed Acyclic Word Graphs. Computer Journal, 2001, 44, 425-434.	1.5	1
56	Document ranking for variable bit-block compression signatures. Information Processing and Management, 2001, 37, 39-51.	5.4	2
57	Time-space trade-off analysis of morphic trie images. IEEE Transactions on Knowledge and Data Engineering, 2001, 13, 1028-1032.	4.0	0
58	Determination of Context Window Size. International Journal of Computer Processing of Languages, 2001, 14, 71-80.	0.3	4
59	Hybrid Term Indexing for Weighted Boolean and Vector Space Models. International Journal of Computer Processing of Languages, 2001, 14, 133-151.	0.3	3
60	English Letter-Phoneme Conversion by Stochastic Transducers. , 2001, , 91-123.		1
61	Hybrid term indexing for different IR models. , 2000, , .		2
62	Digital library access for Chinese visually impaired. , 2000, , .		6
63	Near Optimal \hat{A} Heap. Computer Journal, 1999, 42, 391-399.	1.5	2
64	Computer-assisted learning of Chinese idioms. Journal of Computer Assisted Learning, 1998, 14, 2-18.	3.3	16
65	Computational complexity of a fast Viterbi decoding algorithm for stochastic letter-phoneme transduction. IEEE Transactions on Speech and Audio Processing, 1998, 6, 217-225.	2.0	4
66	Speech annotation by multi-sensory recording. , 1998, , .		0
67	Stochastic phonographic transduction for English. Computer Speech and Language, 1996, 10, 133-153.	2.9	19
68	Chinese string searching using the KMP algorithm. , 1996, , .		1
69	An IBM-PC environment for Chinese corpus analysis. , 1994, , .		1
70	Inference of letter-phoneme correspondences by delimiting and dynamic time warping techniques. , 1992, , .		6
71	Improving the robustness of wavelet transform for epoch detection. , 0, , .		0
72	Adaptive Data Delivery Framework for Financial Time Series Visualization. , 0, , .		3

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73	XML Document Clustering Using Common XPath. , 0, , .		21
74	SBT-QL: A Stock Time Series Query Language based on Specialized Binary Tree Representation. , 0, , .		3
75	SBT-Forest, an Indexing Approach for Specialized Binary Tree. , 0, , .		1
76	A retrieval model family based on the probability ranking principle for ad hoc retrieval. Journal of the Association for Information Science and Technology, 0, , .	1.5	0