

# Byron Choi

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6406078/publications.pdf>

Version: 2024-02-01

91  
papers

1,298  
citations

567144

15  
h-index

677027

22  
g-index

93  
all docs

93  
docs citations

93  
times ranked

854  
citing authors

#	ARTICLE	IF	CITATIONS
1	Processing private queries over untrusted data cloud through privacy homomorphism. , 2011, , .		153
2	Improving large graph processing on partitioned graphs in the cloud. , 2012, , .		67
3	GEM^2-Tree: A Gas-Efficient Structure for Authenticated Range Queries in Blockchain. , 2019, , .		58
4	Graph Learning for Combinatorial Optimization: A Survey of State-of-the-Art. Data Science and Engineering, 2021, 6, 119-141.	4.6	39
5	Multiple Materialized View Selection for XPath Query Rewriting. , 2008, , .		36
6	PCMLogging. , 2011, , .		34
7	Authentication of Moving Top-k Spatial Keyword Queries. IEEE Transactions on Knowledge and Data Engineering, 2015, 27, 922-935.	4.0	34
8	On the Optimality of Holistic Algorithms for Twig Queries. Lecture Notes in Computer Science, 2003, , 28-37.	1.0	33
9	Geo-Social K-Cover Group Queries for Collaborative Spatial Computing. IEEE Transactions on Knowledge and Data Engineering, 2015, 27, 2729-2742.	4.0	33
10	Keyword-Centric Community Search. , 2019, , .		31
11	Incremental Maintenance of 2-Hop Labeling of Large Graphs. IEEE Transactions on Knowledge and Data Engineering, 2010, 22, 682-698.	4.0	30
12	GBLENDER. , 2010, , .		30
13	Spatial-aware interest group queries in location-based social networks. Data and Knowledge Engineering, 2014, 92, 20-38.	2.1	27
14	AutoG: a visual query autocompletion framework for graph databases. VLDB Journal, 2017, 26, 347-372.	2.7	27
15	Incremental evaluation of schema-directed XML publishing. , 2004, , .		26
16	On incremental maintenance of 2-hop labeling of graphs. , 2008, , .		26
17	PRAGUE: Towards Blending Practical Visual Subgraph Query Formulation and Query Processing. , 2012, , .		25
18	Efficient Shapelet Discovery for Time Series Classification. IEEE Transactions on Knowledge and Data Engineering, 2022, 34, 1149-1163.	4.0	25

#	ARTICLE	IF	CITATIONS
19	QUBLE: towards blending interactive visual subgraph search queries on large networks. VLDB Journal, 2014, 23, 401-426.	2.7	21
20	Towards Efficient Authenticated Subgraph Query Service in Outsourced Graph Databases. IEEE Transactions on Services Computing, 2014, 7, 696-713.	3.2	19
21	Flag Commit: Supporting Efficient Transaction Recovery in Flash-Based DBMSs. IEEE Transactions on Knowledge and Data Engineering, 2012, 24, 1624-1639.	4.0	18
22	MyBenchmark: generating databases for query workloads. VLDB Journal, 2014, 23, 895-913.	2.7	18
23	Social-Aware Top-k Spatial Keyword Search. , 2014, , .		17
24	PCMLogging: Optimizing Transaction Logging and Recovery Performance with PCM. IEEE Transactions on Knowledge and Data Engineering, 2015, 27, 3332-3346.	4.0	17
25	Detecting spam blogs from blog search results. Information Processing and Management, 2011, 47, 246-262.	5.4	16
26	Cache-Conscious Automata for XML Filtering. IEEE Transactions on Knowledge and Data Engineering, 2006, 18, 1629-1644.	4.0	15
27	Authenticated Subgraph Similarity Search in Outsourced Graph Databases. IEEE Transactions on Knowledge and Data Engineering, 2015, 27, 1838-1860.	4.0	15
28	Structure-Preserving Subgraph Query Services. IEEE Transactions on Knowledge and Data Engineering, 2015, 27, 2275-2290.	4.0	15
29	Data-driven visual graph query interface construction and maintenance. Proceedings of the VLDB Endowment, 2016, 9, 984-992.	2.1	15
30	Graph Querying Meets HCI. , 2017, , .		15
31	PICASSO. Proceedings of the VLDB Endowment, 2017, 10, 1861-1864.	2.1	15
32	Private search on key-value stores with hierarchical indexes. , 2014, , .		14
33	Updating Recursive XML Views of Relations. , 2007, , .		13
34	DaVinci: Data-driven visual interface construction for subgraph search in graph databases. , 2015, , .		13
35	Updating Recursive XML Views of Relations. Journal of Computer Science and Technology, 2008, 23, 516-537.	0.9	12
36	DigestJoin: Exploiting Fast Random Reads for Flash-Based Joins. , 2009, , .		12

#	ARTICLE	IF	CITATIONS
37	AutoG. Proceedings of the VLDB Endowment, 2016, 9, 1505-1508.	2.1	12
38	A private DNA motif finding algorithm. Journal of Biomedical Informatics, 2014, 50, 122-132.	2.5	11
39	Asymmetric structure-preserving subgraph queries for large graphs. , 2015, , .		11
40	BOOMER. , 2018, , .		11
41	Online spam-blog detection through blog search. , 2008, , .		10
42	VColor: A practical vertex-cut based approach for coloring large graphs. , 2016, , .		10
43	Human-Powered Data Cleaning for Probabilistic Reachability Queries on Uncertain Graphs. IEEE Transactions on Knowledge and Data Engineering, 2017, 29, 1452-1465.	4.0	10
44	A Uniform Framework for Ad-Hoc Indexes to Answer Reachability Queries on Large Graphs. Lecture Notes in Computer Science, 2009, , 138-152.	1.0	10
45	AURORA: Data-driven Construction of Visual Graph Query Interfaces for Graph Databases. , 2020, , .		10
46	QUBLE. , 2013, , .		9
47	CATAPULT. , 2019, , .		9
48	GBLENDER. , 2011, , .		8
49	Interruption-Sensitive Empty Result Feedback. , 2015, , .		8
50	Authentication of range query results in mapreduce environments. , 2011, , .		7
51	Spatial-aware interest group queries in location-based social networks. , 2012, , .		7
52	Private proximity detection and monitoring with vicinity regions. , 2013, , .		7
53	Geo-Social K-Cover Group queries for collaborative spatial computing. , 2016, , .		7
54	VISUAL: Simulation of Visual Subgraph Query Formulation to Enable Automated Performance Benchmarking. IEEE Transactions on Knowledge and Data Engineering, 2017, 29, 1765-1778.	4.0	7

#	ARTICLE	IF	CITATIONS
55	PP-DBLP: Modeling and Generating Attributed Public-Private Networks with DBLP. , 2018, , .		7
56	A Generic Ontology Framework for Indexing Keyword Search on Massive Graphs. IEEE Transactions on Knowledge and Data Engineering, 2021, 33, 2322-2336.	4.0	7
57	Optimizing Nonindexed Join Processing in Flash Storage-Based Systems. IEEE Transactions on Computers, 2013, 62, 1417-1431.	2.4	6
58	PIGEON: Progress indicator for subgraph queries. , 2015, , .		6
59	Privacy-Preserving Reachability Query Services. Lecture Notes in Computer Science, 2014, , 203-219.	1.0	6
60	Selectivity estimation of twig queries on cyclic graphs. , 2011, , .		5
61	ViSual: An HCI-inspired simulator for blending visual subgraph query construction and processing. , 2015, , .		5
62	Assuring Spatio-Temporal Integrity on Mobile Devices with Minimum Location Disclosure. IEEE Transactions on Mobile Computing, 2017, 16, 3000-3013.	3.9	5
63	FERRARI: an efficient framework for visual exploratory subgraph search in graph databases. VLDB Journal, 2020, 29, 973-998.	2.7	5
64	A Quantitative Summary of XML Structures. Lecture Notes in Computer Science, 2006, , 228-240.	1.0	5
65	Optimizing updates of recursive XML views of relations. VLDB Journal, 2009, 18, 1313-1333.	2.7	4
66	StableBuffer. , 2010, , .		4
67	Side-Effect Estimation: A Filtering Approach to the View Update Problem. IEEE Transactions on Knowledge and Data Engineering, 2014, 26, 2307-2322.	4.0	4
68	VColor*: a practical approach for coloring large graphs. Frontiers of Computer Science, 2021, 15, 1.	1.6	4
69	Cache-Conscious Automata for XML Filtering. , 0, , .		3
70	Ontology-based Graph Visualization for Summarized View. , 2017, , .		3
71	Human-Powered Data Cleaning for Probabilistic Reachability Queries on Uncertain Graphs. , 2018, , .		3
72	Answering the Why-Not Questions of Graph Query Autocompletion. Lecture Notes in Computer Science, 2018, , 332-341.	1.0	3

#	ARTICLE	IF	CITATIONS
73	GFocus: User Focus-based Graph Query Autocompletion. IEEE Transactions on Knowledge and Data Engineering, 2020, , 1-1.	4.0	3
74	PPKWS: An Efficient Framework for Keyword Search on Public-Private Networks. , 2020, , .		3
75	Document Decomposition for XML Compression: A Heuristic Approach. Lecture Notes in Computer Science, 2006, , 202-217.	1.0	3
76	Top-k Graph Summarization on Hierarchical DAGs. , 2020, , .		3
77	Privacy-Preserving Reachability Query Services for Massive Networks. , 2016, , .		3
78	FLAG: Towards Graph Query Autocompletion for Large Graphs. Data Science and Engineering, 2022, 7, 175-191.	4.6	3
79	Adaptive Index Utilization in Memory-Resident Structural Joins. IEEE Transactions on Knowledge and Data Engineering, 2007, 19, 772-788.	4.0	2
80	Incremental Maintenance of the Minimum Bisimulation of Cyclic Graphs. IEEE Transactions on Knowledge and Data Engineering, 2013, 25, 2536-2550.	4.0	2
81	Distributed kNN Query Authentication. , 2018, , .		2
82	FGreat: Focused Graph Query Autocompletion. , 2019, , .		2
83	Spectral Decomposition for Optimal Graph Index Prediction. Lecture Notes in Computer Science, 2013, , 187-200.	1.0	2
84	Predicting the optimal ad-hoc index for reachability queries on graph databases. , 2011, , .		1
85	Structure-preserving subgraph query services. , 2016, , .		1
86	An Indexing Framework for Efficient Visual Exploratory Subgraph Search in Graph Databases. , 2019, , .		1
87	Visualet. , 2020, , .		1
88	Data Engineering in Graph Databases. Lecture Notes in Electrical Engineering, 2011, , 127-132.	0.3	0
89	GScan: Exploiting Sequential Scans for Subgraph Matching. Lecture Notes in Computer Science, 2019, , 471-475.	1.0	0
90	A Generic Ontology Framework for Indexing Keyword Search on Massive Graphs (Extended Abstract). , 2021, , .		0

#	ARTICLE	IF	CITATIONS
91	BOOMER: A Tool for Blending Visual P-Homomorphic Queries on Large Networks. , 2020, , .		0