Panos K Chrysanthis

List of Publications by Year
in descending order

183 papers	1,996 citations	623574 14 h-index	477173 29 g-index
188 all docs	188 docs citations	188 times ranked	892 citing authors

#	Article	IF	Citations
1	Multi-Query Optimization of Incrementally Evaluated Sliding-Window Aggregations. IEEE Transactions on Knowledge and Data Engineering, 2022, 34, 3899-3911.	4.0	1
2	ASTRO: Reducing COVID-19 Exposure through Contact Prediction and Avoidance. ACM Transactions on Spatial Algorithms and Systems, 2022, 8, 1-31.	1.1	5
3	Special Issue on Machine Learning Approaches in Big Data Visualization. IEEE Computer Graphics and Applications, 2022, 42, 39-40.	1.0	1
4	The IoT Meta-Control Firewall. , 2021, , .		4
5	Improving Stream Load Balance through Shedding. , 2021, , .		0
6	A Pipeline for Integrated Theory and Data-Driven Modeling of Biomedical Data. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2021, 18, 811-822.	1.9	1
7	A Context, Location and Preference-Aware System for Safe Pedestrian Mobility. , 2021, , .		4
8	HealthDist: A Context, Location and Preference-Aware System for Safe Navigation. , 2021, , .		2
9	ViewSeeker: An Interactive View Recommendation Framework. Big Data Research, 2021, 25, 100238.	2.6	4
10	EPICGen. Proceedings of the VLDB Endowment, 2021, 14, 2803-2806.	2.1	2
11	SPEAr: Expediting Stream Processing with Accuracy Guarantees. , 2020, , .		8
12	Introduction to the special issue on Self-managing and Hardware-Optimized Database Systems 2019. Distributed and Parallel Databases, 2020, 38, 767-769.	1.0	0
13	CAPRIOv2.0: A Context-Aware Unified Indoor-Outdoor Path Recommendation System. , 2020, , .		7
14	CausalMGM: an interactive web-based causal discovery tool. Nucleic Acids Research, 2020, 48, W597-W602.	6.5	10
15	Serendipity-based Points-of-Interest Navigation. ACM Transactions on Internet Technology, 2020, 20, 1-32.	3.0	3
16	ExNav: An Interactive Big Data Exploration Framework for Big Unstructured Data. , 2020, , .		1
17	Evaluating Query Strategies for Different Feedback Types in Interactive View Recommendation. , 2020, , .		0
18	CAPRIO: Context-Aware Path Recommendation Exploiting Indoor and Outdoor Information. , 2019, , .		7

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19	Mitigating Congestion Using Environment Protective Dynamic Traffic Orchestration. , 2019, , .		0
20	IoT Data Prefetching in Indoor Navigation SOAs. ACM Transactions on Internet Technology, 2019, 19, 1-21.	3.0	10
21	Smart Room-by-Room HVAC Scheduling for Residential Savings and Comfort. , 2019, , .		3
22	Leveraging Data-Analysis Session Logs for Efficient, Personalized, Interactive View Recommendation. , 2019, , .		2
23	GreenChip: A tool for evaluating holistic sustainability of modern computing systems. Sustainable Computing: Informatics and Systems, 2019, 22, 322-332.	1.6	9
24	Processing of Aggregate Continuous Queries in a Distributed Environment. Lecture Notes in Business Information Processing, 2019, , 45-62.	0.8	2
25	Authorization-aware optimization for multi-provider queries. , 2019, , .		3
26	DCS: A Policy Framework for the Detection of Correlated Data Streams. Lecture Notes in Business Information Processing, 2019, , 191-210.	0.8	1
27	CAPRIO. Proceedings of the VLDB Endowment, 2019, 12, 1878-1881.	2.1	9
28	Efficient Recommendation of Aggregate Data Visualizations. IEEE Transactions on Knowledge and Data Engineering, 2018, 30, 263-277.	4.0	18
29	Data-Driven User-Aware HVAC Scheduling. , 2018, , .		2
30	Concept-Driven Load Shedding: Reducing Size and Error of Voluminous and Variable Data Streams. , 2018, , .		11
31	Artifact Evaluation: FAD or Real News?. , 2018, , .		2
32	EPUI. , 2018, , .		1
33	Comparison of strategies for scalable causal discovery of latent variable models from mixed data. International Journal of Data Science and Analytics, 2018, 6, 33-45.	2.4	32
34	Extended Transaction Models and the ACTA Framework. , 2018, , 1428-1429.		0
35	Mobile Sensor Network Data Management. , 2018, , 2283-2288.		0
36	Strategies for Detection of Correlated Data Streams. , 2018, , .		2

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37	Data Broadcasting, Caching, and Replication in Mobile Computing. , 2018, , 731-735.		0
38	Semantics-Based Concurrency Control. , 2018, , 3435-3436.		0
39	Integrated Theory-and Data-Driven Feature Selection in Gene Expression Data Analysis. , 2017, 2017, 1525-1532.		20
40	Interactive Exploration of Correlated Time Series. , 2017, , .		6
41	Detection of Highly Correlated Live Data Streams. , 2017, , .		6
42	FlatFIT. , 2017, , .		16
43	Data-Driven Serendipity Navigation in Urban Places. , 2017, , .		4
44	Artifact Evaluation: Is It a Real Incentive?. , 2017, , .		7
45	A holistic view of stream partitioning costs. Proceedings of the VLDB Endowment, 2017, 10, 1286-1297.	2.1	30
46	Mobile Sensor Network Data Management. , 2017, , 1-6.		1
47	Uninterruptible Migration of Continuous Queries without Operator State Migration. SIGMOD Record, 2017, 46, 17-22.	0.7	6
48	Holistically evaluating the environmental impacts in modern computing systems. , 2016, , .		11
49	Argo: Architecture-aware graph partitioning. , 2016, , .		8
50	REQUEST: A scalable framework for interactive construction of exploratory queries. , 2016, , .		5
51	MuVE: Efficient Multi-Objective View Recommendation for Visual Data Exploration. , 2016, , .		38
52	Planar: Parallel lightweight architecture-aware adaptive graph repartitioning. , 2016, , .		13
53	MPG: Not So Random Exploration of a City. , 2016, , .		8
54	Avoiding class warfare: managing continuous queries with differentiated classes of service. VLDB Journal, 2016, 25, 197-221.	2.7	18

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55	Data Broadcasting, Caching and Replication in Mobile Computing. , 2016, , 1-5.		0
56	Extended Transaction Models and the ACTA Framework. , 2016, , 1-2.		0
57	Semantics-Based Concurrency Control. , 2016, , 1-2.		0
58	Mobile Sensor Network Data Management. , 2016, , 1-6.		5
59	Stream query processing on emerging memory architectures. , 2015, , .		1
60	Preferential Diversity. , 2015, , .		7
61	Unifying Qualitative and Quantitative Database Preferences to Enhance Query Personalization. , 2015, , .		5
62	CE-Storm. , 2015, , .		12
63	Radio Map Prefetching for Indoor Navigation in Intermittently Connected Wi-Fi Networks. , 2015, , .		4
64	An analytics appliance for identifying (near) optimal over-the-counter medicine products as health indicators for influenza surveillance. Information Systems, 2015, 48, 151-163.	2.4	3
65	Architecture-aware graph repartitioning for data-intensive scientific computing. , 2014, , .		6
66	Performance vs. freshness in web database applications. World Wide Web, 2014, 17, 969-995.	2.7	2
67	Towards automated personalized data storage. , 2014, , .		2
68	A network-aware framework for energy-efficient data acquisition in wireless sensor networks. Journal of Network and Computer Applications, 2014, 46, 227-240.	5.8	9
69	Balancing Performance, Accuracy, and Precision for Secure Cloud Transactions. IEEE Transactions on Parallel and Distributed Systems, 2014, 25, 417-426.	4.0	5
70	PAQO: Preference-aware query optimization for decentralized database systems. , 2014, , .		14
71	A user-friendly framework for database preferences. , 2014, , .		3
72	Intelligent search in social communities of smartphone users. Distributed and Parallel Databases, 2013, 31, 115-149.	1.0	6

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73	Self-managing load shedding for data stream management systems. , 2013, , .		10
74	PAQO. Proceedings of the VLDB Endowment, 2013, 6, 1334-1337.	2.1	4
75	A continuous workflow scheduling framework. , 2013, , .		0
76	Harnessing off-grid renewable energy. , 2013, , .		1
77	Enabling intensional access control via preference-aware query optimization. , 2013, , .		1
78	AstroShelf. , 2012, , .		9
79	Using a Distributed Search Engine to Identify Optimal Product Sets for Use in an Outbreak Detection System. , 2012, , .		0
80	Three-Level Processing of Multiple Aggregate Continuous Queries. , 2012, , .		25
81	Adaptive Class-Based Scheduling of Continuous Queries. , 2012, , .		6
82	Key-key-value stores for efficiently processing graph data in the cloud. , 2011, , .		1
83	DILoS: A dynamic integrated load manager and scheduler for continuous queries. , 2011, , .		5
84	Optimizing the Energy Consumption of Continuous Query Processing with Mobile Clients. , 2011, , .		2
85	Power efficiency through tuple ranking inÂwireless sensor network monitoring. Distributed and Parallel Databases, 2011, 29, 113-150.	1.0	6
86	In-network data acquisition and replication in mobile sensor networks. Distributed and Parallel Databases, 2011, 29, 87-112.	1.0	6
87	Optimized query routing trees for wireless sensor networks. Information Systems, 2011, 36, 267-291.	2.4	30
88	Optimized processing of multiple aggregate continuous queries. , 2011, , .		22
89	CONFLuEnCE. , 2011, , .		5
90	QMD. , 2011, , .		1

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91	Visualization of Energy Consumption of Continuous Query Processing with Mobile Clients. , 2011, , .		0
92	Enforcing Policy and Data Consistency of Cloud Transactions. , 2011, , .		15
93	CONFLuEnCE: Implementation and Application Design. , 2011, , .		2
94	Admission control mechanisms for continuous queries in the cloud. , 2010, , .		8
95	Power-aware operator placement and broadcasting of continuous query results. , 2010, , .		5
96	KSpot: Effectively Monitoring the K Most Important Events in a Wireless Sensor Network. Proceedings - International Conference on Data Engineering, 2009, , .	0.0	13
97	Optimizing i/o-intensive transactions in highly interactive applications. , 2009, , .		13
98	Demonstrating an evacuation algorithm with mobile devices using an e-scavenger hunt game. , 2009, , .		8
99	Class-based continuous query scheduling for data streams. , 2009, , .		12
100	FSort. , 2009, , .		12
101	Blocking reduction for distributed transaction processing within MANETs. Distributed and Parallel Databases, 2009, 25, 165-192.	1.0	3
102	Adaptive Scheduling of Web Transactions. Proceedings - International Conference on Data Engineering, 2009, , .	0.0	24
103	Perimeter-Based Data Replication in Mobile Sensor Networks. , 2009, , .		6
104	Mobile Sensor Network Data Management. , 2009, , 1755-1759.		5
105	Extended Transaction Models and the ACTA Framework. , 2009, , 1091-1092.		0
106	Semantics-based Concurrency Control. , 2009, , 2591-2591.		1
107	20 years of mobile data management research. , 2009, , .		0
108	Improving the Hybrid Data Dissemination Model of Web Documents. World Wide Web, 2008, 11, 313-337.	2.7	3

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109	Workload-Aware Query Routing Trees in Wireless Sensor Networks. , 2008, , .		10
110	Adjourn State Concurrency Control Avoiding Time-Out Problems in Atomic Commit Protocols. , 2008, , .		1
111	Poster session: ASETS: A self-managing transaction scheduler. , 2008, , .		6
112	Scalable data dissemination using hybrid methods. Parallel and Distributed Processing Symposium (IPDPS), Proceedings of the International Conference on, 2008, , .	1.0	0
113	Algorithms and metrics for processing multiple heterogeneous continuous queries. ACM Transactions on Database Systems, 2008, 33, 1-44.	1.5	53
114	Adaptive navigation of vehicles in congested road networks. , 2008, , .		13
115	Sensor Queries: Algebraic Optimization for Time and Energy. International Journal of Distributed Sensor Networks, 2008, 4, 262-284.	1.3	2
116	Distributed databases and peer-to-peer databases. SIGMOD Record, 2008, 37, 5-11.	0.7	40
117	ViP: A User-Centric View-Based Annotation Framework for Scientific Data. Lecture Notes in Computer Science, 2008, , 295-312.	1.0	5
118	User-Centric Annotation Management for Biological Data. Lecture Notes in Computer Science, 2008, , 54-61.	1.0	1
119	Scheduling continuous queries in data stream management systems. Proceedings of the VLDB Endowment, 2008, 1, 1526-1527.	2.1	6
120	SenseSwarm. , 2007, , .		13
121	LSynD: Localized Synopsis Diffusion. , 2007, , .		0
122	MINT Views: Materialized In-Network Top-k Views in Sensor Networks. , 2007, , .		24
123	The MicroPulse Framework for Adaptive Waking Windows in Sensor Networks. , 2007, , .		10
124	Decomposing Data-Centric Storage Query Hot-Spots in Sensor Networks. , 2006, , .		10
125	A decade of dynamic web content: a structured survey on past and present practices and future trends. IEEE Communications Surveys and Tutorials, 2006, 8, 52-60.	24.8	5
126	Decomposing Data-Centric Storage Query Hot-Spots in Sensor Networks. , 2006, , .		12

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127	Self-tuning caching: the Universal Caching algorithm. Software - Practice and Experience, 2006, 36, 1179-1188.	2.5	2
128	Network awareness and application adaptability. Information Systems and E-Business Management, 2006, 4, 399-419.	2.2	4
129	Secure-CITI Critical Information-Technology Infrastructure. , 2006, , .		2
130	Efficient handling of sensor failures. , 2006, , .		2
131	KDDCS. , 2006, , .		44
132	Report on MobiDE 2003. SIGMOD Record, 2005, 34, 70-73.	0.7	0
133	Multiâ€criteria routing in wireless sensorâ€based pervasive environments. International Journal of Pervasive Computing and Communications, 2005, 1, 313-326.	1.1	14
134	Middleware for Scalable Data Dissemination. , 2005, , 237-260.		1
135	STEP. , 2005, , .		5
136	Towards universal mobile caching. , 2005, , .		9
137	Timely data delivery in sensor networks using whirlpool. , 2005, , .		14
138	Zone sharing. , 2005, , .		24
139	Towards the measurement of tuple space performance. Performance Evaluation Review, 2005, 33, 51-62.	0.4	9
140	A framework for extending the synergy between MAC layer and query optimization in sensor networks. , 2004, , .		20
141	A comparison of two view materialization approaches for disease surveillance system. , 2004, , .		1
142	Profile and context filtering of streaming data for a mobile personal assistant. , 2004, , .		0
143	1-2PC. , 2004, , .		20
144	GD-GhOST. , 2004, , .		6

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145	Localization of Integrity Constraints in Mobile Databases and Specification in PRO-MOTION. Mobile Networks and Applications, 2004, 9, 481-490.	2.2	5
146	Mobility in Databases and Distributed Systems: Summing up Achievements of the Past Decade. Mobile Networks and Applications, 2004, 9, 455-457.	2.2	1
147	On-Demand Data Broadcasting for Mobile Decision Making. Mobile Networks and Applications, 2004, 9, 703-714.	2.2	24
148	Balancing energy efficiency and quality of aggregate data in sensor networks. VLDB Journal, 2004, 13, 384-403.	2.7	198
149	Adaptive multiversion data broadcast organizations. Information Systems, 2004, 29, 509-528.	2.4	4
150	Guest editors' preface. Mobile Computing and Communications Review, 2004, 8, 4-5.	1.7	0
151	Mobile agent-based services for view materialization. Mobile Computing and Communications Review, 2004, 8, 32-43.	1.7	4
152	ML-1-2PC: An Adaptive Multi-level Atomic Commit Protocol. Lecture Notes in Computer Science, 2004, , 275-290.	1.0	5
153	Location-Aware Routing for Data Aggregation in Sensor Networks1. , 2004, , 189-209.		10
154	TiNA. , 2003, , .		149
155	Characterizing the Temporal and Semantic Coherency of Broadcast-Based Data Dissemination. Lecture Notes in Computer Science, 2003, , 410-424.	1.0	12
156	Two-Phase Commit Processing with Restructured Commit Tree. Lecture Notes in Computer Science, 2003, , 82-99.	1.0	7
157	Personalizing information gathering for mobile database clients. , 2002, , .		12
158	Facilitating mobile decision making. , 2002, , .		8
159	Semantic-based delivery of OLAP summary tables in wireless environments. , 2002, , .		14
160	View Propagation and Inconsistency Detection for Cooperative Mobile Agents. Lecture Notes in Computer Science, 2002, , 107-124.	1.0	4
161	AN EVALUATION OF THE JAVA-BASED APPROACHES TO WEB DATABASE ACCESS. International Journal of Cooperative Information Systems, 2001, 10, 401-422.	0.6	4
162	Caching constrained mobile data. , 2001, , .		3

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163	Better client OFF time prediction to improve performance in web information systems. , 2001, , .		0
164	An atomic commit protocol for gigabit-networked distributed database systems. Journal of Systems Architecture, 2000, 46, 809-833.	2.5	12
165	Transaction processing in PRO-MOTION. , 1999, , .		25
166	Atomicity with incompatible presumptions. , 1999, , .		16
167	Enhancing the performance of presumed commit protocol. , 1997, , .		8
168	PRO-MOTION. , 1997, , .		18
169	PRO-MOTION: Support for mobile database access. Personal and Ubiquitous Computing, 1997, 1, 171-181.	0.6	9
170	A taxonomy of correctness criteria in database applications. VLDB Journal, 1996, 5, 85-97.	2.7	63
171	Supporting mobile database access through query by icons. Distributed and Parallel Databases, 1996, 4, 249-269.	1.0	8
172	Dealing with incompatible presumptions of commit protocols in multidatabase systems. , 1996, , .		6
173	Supporting Mobile Database Access through Query by Icons. , 1996, , 47-67.		5
174	Requirements-based design evaluation. , 1995, , .		6
175	QBI. SIGMOD Record, 1995, 24, 477.	0.7	0
176	QBI. , 1995, , .		14
177	Synthesis of extended transaction models using ACTA. ACM Transactions on Database Systems, 1994, 19, 450-491.	1.5	169
178	Database schema evolution through the specification and maintenance of changes on entities and relationships. Lecture Notes in Computer Science, 1994, , 132-151.	1.0	14
179	Database schema evolution using EVER diagrams. , 1994, , .		8
180	Extracting concurrency from objects. SIGMOD Record, 1991, 20, 108-117.	0.7	5

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181	Extracting concurrency from objects. , 1991, , .		33
182	Finer grained concurrency for the database cache. , 1987, , .		5
183	Introduction to the special issue on self‑managing and hardware‑optimized database systems 2020. Distributed and Parallel Databases, 0, , 1.	1.0	0