Hans-Peter Kriegel

List of Publications by Year
in descending order

101 papers	19,583 citations	136950 32 h-index	88630 70 g-index
106 all docs	106 docs citations	106 times ranked	11616 citing authors

#	Article	IF	Citations
1	The (black) art of runtime evaluation: Are we comparing algorithms or implementations?. Knowledge and Information Systems, 2017, 52, 341-378.	3.2	132
2	Indexing, X-Tree. , 2017, , 999-1004.		0
3	On reverse-k-nearest-neighbor joins. GeoInformatica, 2015, 19, 299-330.	2.7	7
4	SigniTrend. , 2014, , .		56
5	Local outlier detection reconsidered: a generalized view on locality with applications to spatial, video, and network outlier detection. Data Mining and Knowledge Discovery, 2014, 28, 190-237.	3.7	222
6	Generalized Outlier Detection with Flexible Kernel Density Estimates. , 2014, , .		92
7	Reverse-Nearest Neighbor Queries on Uncertain Moving Object Trajectories. Lecture Notes in Computer Science, 2014, , 92-107.	1.3	9
8	Interactive data mining with 3D-parallel-coordinate-trees. , 2013, , .		46
9	Model-based probabilistic frequent itemset mining. Knowledge and Information Systems, 2013, 37, 181-217.	3.2	14
10	Cost-Based Quantile Query Processing in Wireless Sensor Networks. , 2013, , .		1
11	Geodetic Distance Queries on R-Trees for Indexing Geographic Data. Lecture Notes in Computer Science, 2013, , 146-164.	1.3	17
12	Reverse-k-Nearest-Neighbor Join Processing. Lecture Notes in Computer Science, 2013, , 277-294.	1.3	6
13	On Evaluation of Outlier Rankings and Outlier Scores. , 2012, , .		95
14	Evaluation of Clusterings -- Metrics and Visual Support. , 2012, , .		54
15	Outlier Detection in Arbitrarily Oriented Subspaces. , 2012, , .		66
16	A survey on unsupervised outlier detection in highâ€dimensional numerical data. Statistical Analysis and Data Mining, 2012, 5, 363-387.	2.8	534
17	Subspace clustering. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2012, 2, 351-364.	6.8	50
18	Spatial Outlier Detection: Data, Algorithms, Visualizations. Lecture Notes in Computer Science, 2011, , 512-516.	1.3	19

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19	Density‑based clustering. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2011, 1, 231-240.	6.8	576
20	Interpreting and Unifying Outlier Scores. , 2011, , .		149
21	Efficient probabilistic reverse nearest neighbor query processing on uncertain data. Proceedings of the VLDB Endowment, 2011, 4, 669-680.	3.8	36
22	Continuous Inverse Ranking Queries in Uncertain Streams. Lecture Notes in Computer Science, 2011, , 37-54.	1.3	4
23	Metric spaces in data mining. SIGSPATIAL Special, 2010, 2, 36-39.	2.7	2
24	Scalable Probabilistic Similarity Ranking in Uncertain Databases. IEEE Transactions on Knowledge and Data Engineering, 2010, 22, 1234-1246.	5.7	34
25	Boosting spatial pruning. , 2010, , .		30
26	On the impact of flash SSDs on spatial indexing. , 2010, , .		11
27	Visual Evaluation of Outlier Detection Models. Lecture Notes in Computer Science, 2010, , 396-399.	1.3	22
28	Incremental Reverse Nearest Neighbor Ranking. Proceedings - International Conference on Data Engineering, 2009, , .	0.0	12
29	LoOP. , 2009, , .		308
30	Reverse k-nearest neighbor search in dynamic and general metric databases. , 2009, , .		46
31	Subspace and projected clustering: experimental evaluation and analysis. Knowledge and Information Systems, 2009, 21, 299-326.	3.2	52
32	Probabilistic frequent itemset mining in uncertain databases. , 2009, , .		202
33	Outlier Detection in Axis-Parallel Subspaces of High Dimensional Data. Lecture Notes in Computer Science, 2009, , 831-838.	1.3	163
34	Clustering high-dimensional data. ACM Transactions on Knowledge Discovery From Data, 2009, 3, 1-58.	3.5	801
35	Hierarchical Bayesian Models for Collaborative Tagging Systems. , 2009, , .		30
36	Hot Item Detection in Uncertain Data. Lecture Notes in Computer Science, 2009, , 673-680.	1.3	2

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37	Reverse k-Nearest Neighbor Search Based on Aggregate Point Access Methods. Lecture Notes in Computer Science, 2009, , 444-460.	1.3	6
38	ELKI in Time: ELKI 0.2 for the Performance Evaluation of Distance Measures for Time Series. Lecture Notes in Computer Science, 2009, , 436-440.	1.3	13
39	Angle-based outlier detection in high-dimensional data. , 2008, , .		454
40	Metropolis Algorithms for Representative Subgraph Sampling. , 2008, , .		84
41	ELKI: A Software System for Evaluation of Subspace Clustering Algorithms. Lecture Notes in Computer Science, 2008, , 580-585.	1.3	57
42	Detecting clusters in moderate-to-high dimensional data. Proceedings of the VLDB Endowment, 2008, 1, 1528-1529.	3.8	6
43	Statistical Density Prediction in Traffic Networks. , 2008, , .		30
44	Indexing, X-Tree. , 2008, , 543-547.		2
45	ProUD: Probabilistic Ranking in Uncertain Databases. Lecture Notes in Computer Science, 2008, , 558-565.	1.3	6
46	Robust, Complete, and Efficient Correlation Clustering. , 2007, , .		41
47	Future trends in data mining. Data Mining and Knowledge Discovery, 2007, 15, 87-97.	3.7	128
48	Detection and Visualization of Subspace Cluster Hierarchies. , 2007, , 152-163.		41
49	Probabilistic Nearest-Neighbor Query on Uncertain Objects. , 2007, , 337-348.		94
50	Pattern Mining in Frequent Dynamic Subgraphs. IEEE International Conference on Data Mining, 2006, , .	0.0	91
51	Multi-step density-based clustering. Knowledge and Information Systems, 2006, 9, 284-308.	3.2	22
52	Extending metric index structures for efficient range query processing. Knowledge and Information Systems, 2006, 10, 211-227.	3.2	4
53	Probabilistic Similarity Join on Uncertain Data. Lecture Notes in Computer Science, 2006, , 295-309.	1.3	69
54	An EM-Approach for Clustering Multi-Instance Objects. Lecture Notes in Computer Science, 2006, , 139-148.	1.3	15

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55	Multi-represented kNN-Classification for Large Class Sets. Lecture Notes in Computer Science, 2005, , 511-522.	1.3	6
56	Density-based clustering of uncertain data. , 2005, , .		206
57	Efficient Similarity Search for Hierarchical Data in Large Databases. Lecture Notes in Computer Science, 2004, , 676-693.	1.3	53
58	Using Support Vector Machines for Classifying Large Sets of Multi-Represented Objects. , 2004, , .		13
59	Density-Connected Subspace Clustering for High-Dimensional Data. , 2004, , .		220
60	Visually Mining Through Cluster Hierarchies. , 2004, , .		20
61	Clustering Multi-represented Objects with Noise. Lecture Notes in Computer Science, 2004, , 394-403.	1.3	46
62	Feature Weighting and Instance Selection for Collaborative Filtering: An Information-Theoretic Approach*. Knowledge and Information Systems, 2003, 5, 201-224.	3.2	67
63	Similarity Search in Structured Data. Lecture Notes in Computer Science, 2003, , 309-319.	1.3	22
64	Using sets of feature vectors for similarity search on voxelized CAD objects. , 2003, , .		44
65	Combining Approximation Techniques and Vector Quantization for Adaptable Similarity Search. Journal of Intelligent Information Systems, 2002, 19, 207-230.	3.9	1
66	Optimal Dimension Order: A Generic Technique for the Similarity Join. Lecture Notes in Computer Science, 2002, , 135-149.	1.3	6
67	Data bubbles. SIGMOD Record, 2001, 30, 79-90.	1.2	19
68	Epsilon grid order. SIGMOD Record, 2001, 30, 379-388.	1.2	39
69	Determining the Convex Hull in Large Multidimensional Databases. Lecture Notes in Computer Science, 2001, , 294-306.	1.3	31
70	Spatial data management for computer aided design. SIGMOD Record, 2001, 30, 614.	1.2	1
71	Adaptable Similarity Search in Large Image Databases. Computational Imaging and Vision, 2001, , 297-317.	0.6	1
72	Adaptable Similarity Search Using Vector Quantization. Lecture Notes in Computer Science, 2001, , 317-327.	1.3	1

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73	Spatial Data Mining: Database Primitives, Algorithms and Efficient DBMS Support. Data Mining and Knowledge Discovery, 2000, 4, 193-216.	3.7	156
74	High performance clustering based on the similarity join. , 2000, , .		36
75	LOF. , 2000, , .		2,444
76	LOF. SIGMOD Record, 2000, 29, 93-104.	1.2	2,799
77	Dynamically Optimizing High-Dimensional Index Structures. Lecture Notes in Computer Science, 2000, , 36-50.	1.3	19
78	A Fast Parallel Clustering Algorithm for Large Spatial Databases. Data Mining and Knowledge Discovery, 1999, 3, 263-290.	3.7	169
79	3D Shape Histograms for Similarity Search and Classification in Spatial Databases. Lecture Notes in Computer Science, 1999, , 207-226.	1.3	319
80	Knowledge Discovery in Spatial Databases. Lecture Notes in Computer Science, 1999, , 61-74.	1.3	18
81	XZ-Ordering: A Space-Filling Curve for Objects with Spatial Extension. Lecture Notes in Computer Science, 1999, , 75-90.	1.3	29
82	Density-Based Clustering in Spatial Databases: The Algorithm GDBSCAN and Its Applications. Data Mining and Knowledge Discovery, 1998, 2, 169-194.	3.7	1,059
83	Approximation-Based Similarity Search for 3-D Surface Segments. GeoInformatica, 1998, 2, 113-147.	2.7	39
84	Optimal multi-step k-nearest neighbor search. SIGMOD Record, 1998, 27, 154-165.	1.2	130
85	A cost model for nearest neighbor search in high-dimensional data space. , 1997, , .		265
86	S3. SIGMOD Record, 1997, 26, 564-567.	1.2	6
87	Spatial data mining: A database approach. Lecture Notes in Computer Science, 1997, , 47-66.	1.3	138
88	Fast parallel similarity search in multimedia databases. SIGMOD Record, 1997, 26, 1-12.	1.2	34
89	Using extended feature objects for partial similarity retrieval. VLDB Journal, 1997, 6, 333-348.	4.1	43
90	3D Similarity search by shape approximation. Lecture Notes in Computer Science, 1997, , 9-28.	1.3	10

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91	VisDB. SIGMOD Record, 1995, 24, 482.	1.2	3
92	A 3D molecular surface representation supporting neighborhood queries. Lecture Notes in Computer Science, 1995, , 240-258.	1.3	6
93	Knowledge discovery in large spatial databases: Focusing techniques for efficient class identification. Lecture Notes in Computer Science, 1995, , 67-82.	1.3	77
94	GENESYS. SIGMOD Record, 1994, 23, 519.	1.2	2
95	Multi-step processing of spatial joins. SIGMOD Record, 1994, 23, 197-208.	1.2	40
96	Efficient processing of spatial joins using R-trees. SIGMOD Record, 1993, 22, 237-246.	1.2	107
97	Efficient processing of spatial joins using R-trees. , 1993, , .		360
98	The TR*-tree: A new representation of polygonal objects supporting spatial queries and operations. Lecture Notes in Computer Science, 1991, , 249-263.	1.3	15
99	The R*-tree: an efficient and robust access method for points and rectangles. , 1990, , .		2,271
100	Performance comparison of point and spatial access methods. Lecture Notes in Computer Science, 1990, , 89-114.	1.3	36
101	Performance comparison of index structures for multi-key retrieval. SIGMOD Record, 1984, 14, 186-196.	1.2	8