

Peter Christen

List of Publications by Year in descending order

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73
papers

5,543
citations

471509

17
h-index

276875

41
g-index

73
all docs

73
docs citations

73
times ranked

5094
citing authors

#	ARTICLE	IF	CITATIONS
1	Context Aware Computing for The Internet of Things: A Survey. IEEE Communications Surveys and Tutorials, 2014, 16, 414-454.	39.4	1,974
2	Sensing as a service model for smart cities supported by Internet of Things. Transactions on Emerging Telecommunications Technologies, 2014, 25, 81-93.	3.9	725
3	Data Matching. , 2012, , .		532
4	A Survey of Indexing Techniques for Scalable Record Linkage and Deduplication. IEEE Transactions on Knowledge and Data Engineering, 2012, 24, 1537-1555.	5.7	458
5	A taxonomy of privacy-preserving record linkage techniques. Information Systems, 2013, 38, 946-969.	3.6	210
6	A Comparison of Personal Name Matching: Techniques and Practical Issues. , 2006, , .		171
7	Sensor Search Techniques for Sensing as a Service Architecture for the Internet of Things. IEEE Sensors Journal, 2014, 14, 406-420.	4.7	165
8	A note on using the F-measure for evaluating record linkage algorithms. Statistics and Computing, 2018, 28, 539-547.	1.5	159
9	Quality and Complexity Measures for Data Linkage and Deduplication. Studies in Computational Intelligence, 2007, , 127-151.	0.9	116
10	Privacy-Preserving Record Linkage for Big Data: Current Approaches and Research Challenges. , 2017, , 851-895.		73
11	CA4IOT: Context Awareness for Internet of Things. , 2012, , .		72
12	F*: an interpretable transformation of the F-measure. Machine Learning, 2021, 110, 451-456.	5.4	71
13	Privacy-preserving matching of similar patients. Journal of Biomedical Informatics, 2016, 59, 285-298.	4.3	41
14	Efficient Cryptanalysis of Bloom Filters for Privacy-Preserving Record Linkage. Lecture Notes in Computer Science, 2017, , 628-640.	1.3	38
15	Sensor discovery and configuration framework for the Internet of Things paradigm. , 2014, , .		36
16	GeCo. , 2013, , .		34
17	Development and user experiences of an open source data cleaning, deduplication and record linkage system. SIGKDD Explorations: Newsletter of the Special Interest Group (SIG) on Knowledge Discovery & Data Mining, 2009, 11, 39-48.	4.0	32
18	Scalable Privacy-Preserving Record Linkage for Multiple Databases. , 2014, , .		29

#	ARTICLE	IF	CITATIONS
19	Modeling Dynamics of Diffusion Across Heterogeneous Social Networks: News Diffusion in Social Media. <i>Entropy</i> , 2013, 15, 4215-4242.	2.2	28
20	Precise and Fast Cryptanalysis for Bloom Filter Based Privacy-Preserving Record Linkage. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2019, 31, 2164-2177.	5.7	28
21	Semantic-Driven Configuration of Internet of Things Middleware. , 2013, , .		27
22	Fake Injection Strategies for Private Phonetic Matching. <i>Lecture Notes in Computer Science</i> , 2012, , 9-24.	1.3	27
23	An Evaluation Framework for Privacy-Preserving Record Linkage. <i>Journal of Privacy and Confidentiality</i> , 2014, 6, .	1.5	27
24	Linking Sensitive Data. , 2020, , .		26
25	Capturing sensor data from mobile phones using Global Sensor Network middleware. , 2012, , .		24
26	Flexible and extensible generation and corruption of personal data. , 2013, , .		24
27	Visualizing temporal cluster changes using Relative Density Self-Organizing Maps. <i>Knowledge and Information Systems</i> , 2010, 25, 281-302.	3.2	23
28	Efficient two-party private blocking based on sorted nearest neighborhood clustering. , 2013, , .		20
29	Automatic Record Linkage of Individuals and Households in Historical Census Data. <i>International Journal of Humanities and Arts Computing</i> , 2014, 8, 204-225.	0.4	20
30	A Graph Matching Method for Historical Census Household Linkage. <i>Lecture Notes in Computer Science</i> , 2014, , 485-496.	1.3	18
31	Privacy-Preserving Data Linkage and Geocoding: Current Approaches and Research Directions. , 2006, , .		17
32	Adaptive Temporal Entity Resolution on Dynamic Databases. <i>Lecture Notes in Computer Science</i> , 2013, , 558-569.	1.3	17
33	Cross-Language Learning from Bots and Users to Detect Vandalism on Wikipedia. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2015, 27, 673-685.	5.7	15
34	Improving Temporal Record Linkage Using Regression Classification. <i>Lecture Notes in Computer Science</i> , 2017, , 561-573.	1.3	15
35	Efficient Entity Resolution with Adaptive and Interactive Training Data Selection. , 2015, , .		14
36	Scalable Privacy-Preserving Linking of Multiple Databases Using Counting Bloom Filters. , 2016, , .		14

#	ARTICLE	IF	CITATIONS
37	Efficient Pattern Mining Based Cryptanalysis for Privacy-Preserving Record Linkage. , 2019, , .		14
38	Dynamic Algorithm Selection Using Reinforcement Learning. , 2006, , .		13
39	Automatic Cleaning and Linking of Historical Census Data Using Household Information. , 2011, , .		13
40	Incremental clustering techniques for multi-party Privacy-Preserving Record Linkage. Data and Knowledge Engineering, 2020, 128, 101809.	3.4	13
41	Sorted Nearest Neighborhood Clustering for Efficient Private Blocking. Lecture Notes in Computer Science, 2013, , 341-352.	1.3	13
42	Hashing-Based Distributed Multi-party Blocking for Privacy-Preserving Record Linkage. Lecture Notes in Computer Science, 2016, , 415-427.	1.3	12
43	Clustering-Based Scalable Indexing for Multi-party Privacy-Preserving Record Linkage. Lecture Notes in Computer Science, 2015, , 549-561.	1.3	11
44	Transforming Pairwise Duplicates to Entity Clusters for High-quality Duplicate Detection. Journal of Data and Information Quality, 2020, 12, 1-30.	2.1	11
45	ReDSOM: Relative Density Visualization of Temporal Changes in Cluster Structures Using Self-Organizing Maps. , 2008, , .		10
46	MERLIN -- A Tool for Multi-party Privacy-Preserving Record Linkage. , 2015, , .		10
47	Pattern-Mining Based Cryptanalysis of Bloom Filters for Privacy-Preserving Record Linkage. Lecture Notes in Computer Science, 2018, , 530-542.	1.3	10
48	A Graph Matching Attack on Privacy-Preserving Record Linkage. , 2020, , .		10
49	Challenges for privacy preservation in data integration. Journal of Data and Information Quality, 2014, 5, 1-3.	2.1	9
50	Privacy-preserving record linkage. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2013, 3, 321-332.	6.8	7
51	Towards a "smart" cost-benefit tool: using machine learning to predict the costs of criminal justice policy interventions. Crime Science, 2018, 7, 12.	2.8	7
52	Advanced Record Linkage Methods and Privacy Aspects for Population Reconstruction – A Survey and Case Studies. , 2015, , 87-110.		6
53	Robust Temporal Graph Clustering for Group Record Linkage. Lecture Notes in Computer Science, 2019, , 526-538.	1.3	6
54	Secure and Accurate Two-Step Hash Encoding for Privacy-Preserving Record Linkage. Lecture Notes in Computer Science, 2020, , 139-151.	1.3	6

#	ARTICLE	IF	CITATIONS
55	Scalable Block Scheduling for Efficient Multi-database Record Linkage. , 2016, , .		5
56	Privacy-Preserving Temporal Record Linkage. , 2018, , .		4
57	Distributed Privacy-Preserving Record Linkage Using Pivot-Based Filter Techniques. , 2018, , .		4
58	A critique and attack on "Blockchain-based privacy-preserving record linkage" Information Systems, 2021, , 101930.	3.6	4
59	Privacy Attack on Multiple Dynamic Match-key based Privacy-Preserving Record Linkage. International Journal of Population Data Science, 2020, 5, 1345.	0.1	4
60	Accurate and efficient privacy-preserving string matching. International Journal of Data Science and Analytics, 2022, 14, 191-215.	4.1	4
61	A scalable privacy-preserving framework for temporal record linkage. Knowledge and Information Systems, 2020, 62, 45-78.	3.2	3
62	Unsupervised Graph-Based Entity Resolution for Complex Entities. ACM Transactions on Knowledge Discovery From Data, 2023, 17, 1-30.	3.5	3
63	Uncovering Diffusion in Academic Publications Using Model-Driven and Model-Free Approaches. , 2014, , .		2
64	Scalable Entity Resolution Using Probabilistic Signatures on Parallel Databases. , 2018, , .		2
65	Accurate privacy-preserving record linkage for databases with missing values. Information Systems, 2022, 106, 101959.	3.6	2
66	Unsupervised Identification of Abnormal Nodes and Edges in Graphs. Journal of Data and Information Quality, 2023, 15, 1-37.	2.1	2
67	Reference Values Based Hardening for Bloom Filters Based Privacy-Preserving Record Linkage. Communications in Computer and Information Science, 2019, , 189-202.	0.5	1
68	Active Learning Based Similarity Filtering for Efficient and Effective Record Linkage. Lecture Notes in Computer Science, 2021, , 321-333.	1.3	1
69	Informativeness-Based Active Learning for Entity Resolution. Communications in Computer and Information Science, 2020, , 125-141.	0.5	1
70	Context-Aware Approximate String Matching for Large-Scale Real-Time Entity Resolution. , 2015, , .		0
71	Using Metric Space Indexing for Complete and Efficient Record Linkage. Lecture Notes in Computer Science, 2018, , 89-101.	1.3	0
72	Linking Scottish vital event records using family groups. Historical Methods, 2020, 53, 130-146.	1.5	0

#	ARTICLE	IF	CITATIONS
73	DLforum – A multidisciplinary online discussion forum for data linkage researchers and practitioners. International Journal of Population Data Science, 2018, 3, 420.	0.1	0