

Xiaoqian Jiang

List of Publications by Year in descending order

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91
papers

4,514
citations

172457

29
h-index

128289

60
g-index

117
all docs

117
docs citations

117
times ranked

5259
citing authors

#	ARTICLE	IF	CITATIONS
1	Deep learning for healthcare: review, opportunities and challenges. Briefings in Bioinformatics, 2018, 19, 1236-1246.	6.5	1,459
2	Privacy-preserving SVM using nonlinear kernels on horizontally partitioned data. , 2006, , .		150
3	Grid Binary LOGistic REgression (GLORE): building shared models without sharing data. Journal of the American Medical Informatics Association: JAMIA, 2012, 19, 758-764.	4.4	150
4	Secure Outsourced Matrix Computation and Application to Neural Networks. , 2018, 2018, 1209-1222.		131
5	iDASH: integrating data for analysis, anonymization, and sharing. Journal of the American Medical Informatics Association: JAMIA, 2012, 19, 196-201.	4.4	130
6	Secure Logistic Regression Based on Homomorphic Encryption: Design and Evaluation. JMIR Medical Informatics, 2018, 6, e19.	2.6	128
7	Privacy-Preserving Patient Similarity Learning in a Federated Environment: Development and Analysis. JMIR Medical Informatics, 2018, 6, e20.	2.6	112
8	WebDISCO: a web service for distributed cox model learning without patient-level data sharing. Journal of the American Medical Informatics Association: JAMIA, 2015, 22, 1212-1219.	4.4	104
9	Calibrating predictive model estimates to support personalized medicine. Journal of the American Medical Informatics Association: JAMIA, 2012, 19, 263-274.	4.4	95
10	Deep representation learning of patient data from Electronic Health Records (EHR): A systematic review. Journal of Biomedical Informatics, 2021, 115, 103671.	4.3	86
11	pSCANNER: patient-centered Scalable National Network for Effectiveness Research. Journal of the American Medical Informatics Association: JAMIA, 2014, 21, 621-626.	4.4	80
12	HEALER: homomorphic computation of ExAct Logistic rEgression for secure rare disease variants analysis in GWAS. Bioinformatics, 2016, 32, 211-218.	4.1	76
13	PRINCESS: Privacy-protecting Rare disease International Network Collaboration via Encryption through Software guard extensionS. Bioinformatics, 2017, 33, 871-878.	4.1	75
14	Addressing Beacon re-identification attacks: quantification and mitigation of privacy risks. Journal of the American Medical Informatics Association: JAMIA, 2017, 24, 799-805.	4.4	62
15	Federated Tensor Factorization for Computational Phenotyping. , 2017, 2017, 887-895.		62
16	EXpectation Propagation LOGistic REgression (EXPLORER): Distributed privacy-preserving online model learning. Journal of Biomedical Informatics, 2013, 46, 480-496.	4.3	60
17	Anticancer drug synergy prediction in understudied tissues using transfer learning. Journal of the American Medical Informatics Association: JAMIA, 2021, 28, 42-51.	4.4	51
18	A Predictive Model for Medical Events Based on Contextual Embedding of Temporal Sequences. JMIR Medical Informatics, 2016, 4, e39.	2.6	48

#	ARTICLE	IF	CITATIONS
19	Privacy-preserving GWAS analysis on federated genomic datasets. BMC Medical Informatics and Decision Making, 2015, 15, S2.	3.0	47
20	A community assessment of privacy preserving techniques for human genomes. BMC Medical Informatics and Decision Making, 2014, 14, S1.	3.0	44
21	Protecting genomic data analytics in the cloud: state of the art and opportunities. BMC Medical Genomics, 2016, 9, 63.	1.5	43
22	Privacy-preserving heterogeneous health data sharing. Journal of the American Medical Informatics Association: JAMIA, 2013, 20, 462-469.	4.4	40
23	FORESEE: Fully Outsourced secuRe gEnome Study basEd on homomorphic Encryption. BMC Medical Informatics and Decision Making, 2015, 15, S5.	3.0	40
24	Secure Multi-pArty Computation Grid LOGistic REgression (SMAC-GLORE). BMC Medical Informatics and Decision Making, 2016, 16, 89.	3.0	40
25	Privacy-preserving techniques of genomic data—a survey. Briefings in Bioinformatics, 2019, 20, 887-895.	6.5	39
26	Lessons Learned for Online Health Community Moderator Roles: A Mixed-Methods Study of Moderators Resigning From WebMD Communities. Journal of Medical Internet Research, 2016, 18, e247.	4.3	37
27	SAFETY: Secure gwAs in Federated Environment through a hYbrid Solution. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2019, 16, 93-102.	3.0	36
28	WebGLORE: a Web service for Grid LOGistic REgression. Bioinformatics, 2013, 29, 3238-3240.	4.1	35
29	DPSynthesizer. Proceedings of the VLDB Endowment, 2014, 7, 1677-1680.	3.8	35
30	A Predictive Model for Determining Patients Not Requiring Prolonged Hospital Length of Stay After Elective Primary Total Hip Arthroplasty. Anesthesia and Analgesia, 2019, 129, 43-50.	2.2	35
31	Differentially Private Histogram Publication for Dynamic Datasets. , 2015, 2015, 1001-1010.		34
32	A community effort to protect genomic data sharing, collaboration and outsourcing. Npj Genomic Medicine, 2017, 2, 33.	3.8	33
33	PRESAGE: PRivacy-preserving gEnetic testing via SoftwAre Guard Extension. BMC Medical Genomics, 2017, 10, 48.	1.5	32
34	SCOR: A secure international informatics infrastructure to investigate COVID-19. Journal of the American Medical Informatics Association: JAMIA, 2020, 27, 1721-1726.	4.4	31
35	Privacy Technology to Support Data Sharing for Comparative Effectiveness Research. Medical Care, 2013, 51, S58-S65.	2.4	30
36	Ultrafast homomorphic encryption models enable secure outsourcing of genotype imputation. Cell Systems, 2021, 12, 1108-1120.e4.	6.2	30

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37	SHARE: system design and case studies for statistical health information release. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2013, 20, 109-116.	4.4	29
38	Privacy Policy and Technology in Biomedical Data Science. <i>Annual Review of Biomedical Data Science</i> , 2018, 1, 115-129.	6.5	28
39	Drug repurposing for COVID-19 using graph neural network and harmonizing multiple evidence. <i>Scientific Reports</i> , 2021, 11, 23179.	3.3	28
40	Distributed learning from multiple EHR databases: Contextual embedding models for medical events. <i>Journal of Biomedical Informatics</i> , 2019, 92, 103138.	4.3	27
41	Treating medical data as a durable asset. <i>Nature Genetics</i> , 2020, 52, 1005-1010.	21.4	25
42	Multiple imputation for analysis of incomplete data in distributed health data networks. <i>Nature Communications</i> , 2020, 11, 5467.	12.8	23
43	Harmonized representation learning on dynamic EHR graphs. <i>Journal of Biomedical Informatics</i> , 2020, 106, 103426.	4.3	23
44	Privacy Preserving RBF Kernel Support Vector Machine. <i>BioMed Research International</i> , 2014, 2014, 1-10.	1.9	22
45	Big Data Privacy in Biomedical Research. <i>IEEE Transactions on Big Data</i> , 2020, 6, 296-308.	6.1	22
46	iDASH secure genome analysis competition 2018: blockchain genomic data access logging, homomorphic encryption on GWAS, and DNA segment searching. <i>BMC Medical Genomics</i> , 2020, 13, 98.	1.5	22
47	Contact Tracing Apps: Lessons Learned on Privacy, Autonomy, and the Need for Detailed and Thoughtful Implementation. <i>JMIR Medical Informatics</i> , 2021, 9, e27449.	2.6	22
48	Discriminative and Distinct Phenotyping by Constrained Tensor Factorization. <i>Scientific Reports</i> , 2017, 7, 1114.	3.3	21
49	A patient-driven adaptive prediction technique to improve personalized risk estimation for clinical decision support. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2012, 19, e137-e144.	4.4	19
50	Multimodal Phenotyping of Alzheimer's Disease with Longitudinal Magnetic Resonance Imaging and Cognitive Function Data. <i>Scientific Reports</i> , 2020, 10, 5527.	3.3	18
51	Are synthetic clinical notes useful for real natural language processing tasks: A case study on clinical entity recognition. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2021, 28, 2193-2201.	4.4	17
52	Partitioning-Based Mechanisms Under Personalized Differential Privacy. <i>Lecture Notes in Computer Science</i> , 2017, 10234, 615-627.	1.3	16
53	Grid multi-category response logistic models. <i>BMC Medical Informatics and Decision Making</i> , 2015, 15, 10.	3.0	15
54	iDASH secure genome analysis competition 2017. <i>BMC Medical Genomics</i> , 2018, 11, 85.	1.5	15

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55	Differentially Private Synthesization of Multi-Dimensional Data using Copula Functions. , 2014, 2014, 475-486.		15
56	Predict or draw blood: An integrated method to reduce lab tests. Journal of Biomedical Informatics, 2020, 104, 103394.	4.3	13
57	Factors Associated With COVID-19 Death in the United States: Cohort Study. JMIR Public Health and Surveillance, 2022, 8, e29343.	2.6	13
58	COVID-19 TestNorm: A tool to normalize COVID-19 testing names to LOINC codes. Journal of the American Medical Informatics Association: JAMIA, 2020, 27, 1437-1442.	4.4	12
59	Privacy-Preserving Predictive Modeling: Harmonization of Contextual Embeddings From Different Sources. JMIR Medical Informatics, 2018, 6, e33.	2.6	12
60	Human Endogenous Retroviruses in Glioblastoma Multiforme. Microorganisms, 2021, 9, 764.	3.6	11
61	Differential-Private Data Publishing Through Component Analysis. Transactions on Data Privacy, 2013, 6, 19-34.	1.0	11
62	VERTICOX: Vertically Distributed Cox Proportional Hazards Model Using the Alternating Direction Method of Multipliers. IEEE Transactions on Knowledge and Data Engineering, 2022, 34, 996-1010.	5.7	10
63	Privacy-protecting, reliable response data discovery using COVID-19 patient observations. Journal of the American Medical Informatics Association: JAMIA, 2021, 28, 1765-1776.	4.4	10
64	Patient ranking with temporally annotated data. Journal of Biomedical Informatics, 2018, 78, 43-53.	4.3	9
65	A deep learning solution to recommend laboratory reduction strategies in ICU. International Journal of Medical Informatics, 2020, 144, 104282.	3.3	9
66	Identifying inference attacks against healthcare data repositories. AMIA Summits on Translational Science Proceedings, 2013, 2013, 262-6.	0.4	9
67	Demystifying the Dark Web Opioid Trade: Content Analysis on Anonymous Market Listings and Forum Posts. Journal of Medical Internet Research, 2021, 23, e24486.	4.3	8
68	Privacy-preserving logistic regression with secret sharing. BMC Medical Informatics and Decision Making, 2022, 22, 89.	3.0	8
69	Relational graph convolutional networks for predicting bloodâ€“brain barrier penetration of drug molecules. Bioinformatics, 2022, 38, 2826-2831.	4.1	7
70	Selecting Optimal Subset to Release Under Differentially Private M-Estimators from Hybrid Datasets. IEEE Transactions on Knowledge and Data Engineering, 2018, 30, 573-584.	5.7	6
71	Model-Protected Multi-Task Learning. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 1002-1019.	13.9	6
72	Privacy-preserving string search on encrypted genomic data using a generalized suffix tree. Informatics in Medicine Unlocked, 2021, 23, 100525.	3.4	6

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73	Calibrating predictive model estimates in a distributed network of patient data. <i>Journal of Biomedical Informatics</i> , 2021, 117, 103758.	4.3	5
74	Hyperpolarized Magnetic Resonance and Artificial Intelligence: Frontiers of Imaging in Pancreatic Cancer. <i>JMIR Medical Informatics</i> , 2021, 9, e26601.	2.6	5
75	DBNet. , 2021, , .		5
76	Secure and Efficient Regression Analysis Using a Hybrid Cryptographic Framework: Development and Evaluation. <i>JMIR Medical Informatics</i> , 2018, 6, e14.	2.6	5
77	A collaborative framework for Distributed Privacy-Preserving Support Vector Machine learning. <i>AMIA ... Annual Symposium proceedings</i> , 2012, 2012, 1350-9.	0.2	5
78	Structured Set Intra Prediction With Discriminative Learning in a Max-Margin Markov Network for High Efficiency Video Coding. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2013, 23, 1941-1956.	8.3	4
79	Temporal phenotyping for transitional disease progress: An application to epilepsy and Alzheimer's disease. <i>Journal of Biomedical Informatics</i> , 2020, 107, 103462.	4.3	4
80	Noise-tolerant similarity search in temporal medical data. <i>Journal of Biomedical Informatics</i> , 2021, 113, 103667.	4.3	4
81	Counterfactual analysis of differential comorbidity risk factors in Alzheimer's disease and related dementias. , 2022, 1, e0000018.		4
82	Genomes in the cloud: balancing privacy rights and the public good. <i>AMIA Summits on Translational Science Proceedings</i> , 2013, 2013, 128.	0.4	3
83	DiagTree. , 2017, , .		2
84	COVID-19 trial graph: a linked graph for COVID-19 clinical trials. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2021, 28, 1964-1969.	4.4	2
85	External Validation of a Laboratory Prediction Algorithm for the Reduction of Unnecessary Labs in the Critical Care Setting. <i>American Journal of Medicine</i> , 2022, 135, 769-774.	1.5	2
86	A secure system for genomics clinical decision support. <i>Journal of Biomedical Informatics</i> , 2020, 112, 103602.	4.3	1
87	SCOTCH: Secure Counting Of encryptEd genomiC data using a Hybrid approach. <i>AMIA ... Annual Symposium proceedings</i> , 2017, 2017, 1744-1753.	0.2	1
88	A Community Effort to Protect Genomic Data Sharing, Collaboration and Outsourcing. <i>SSRN Electronic Journal</i> , 2017, , .	0.4	0
89	GenoPri'16: International Workshop on Genome Privacy and Security. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2018, 15, 1403-1404.	3.0	0
90	Deep graph convolutional network for US birth data harmonization. <i>Journal of Biomedical Informatics</i> , 2022, 125, 103974.	4.3	0

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91	Drug-Target Network Study Reveals the Core Target-Protein Interactions of Various COVID-19 Treatments. <i>Genes</i> , 2022, 13, 1210.	2.4	0