

Jimeng Sun

List of Publications by Year in descending order

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66
papers

4,918
citations

257357

24
h-index

254106

43
g-index

69
all docs

69
docs citations

69
times ranked

5226
citing authors

#	ARTICLE	IF	CITATIONS
1	CHEER: Rich Model Helps Poor Model via Knowledge Infusion. IEEE Transactions on Knowledge and Data Engineering, 2022, 34, 531-543.	4.0	1
2	HINT: Hierarchical interaction network for clinical-trial-outcome predictions. Patterns, 2022, 3, 100445.	3.1	12
3	PopNet: Real-Time Population-Level Disease Prediction with Data Latency. , 2022, , .		1
4	MolTrans: Molecular Interaction Transformer for drug-target interaction prediction. Bioinformatics, 2021, 37, 830-836.	1.8	162
5	DeepPurpose: a deep learning library for drug-target interaction prediction. Bioinformatics, 2021, 36, 5545-5547.	1.8	176
6	SynTEG: a framework for temporal structured electronic health data simulation. Journal of the American Medical Informatics Association: JAMIA, 2021, 28, 596-604.	2.2	26
7	FLANNEL (Focal Loss bAsed Neural Network EnsemblE) for COVID-19 detection. Journal of the American Medical Informatics Association: JAMIA, 2021, 28, 444-452.	2.2	20
8	Highly elevated polygenic risk scores are better predictors of myocardial infarction risk early in life than later. Genome Medicine, 2021, 13, 13.	3.6	36
9	SumGNN: multi-typed drug interaction prediction via efficient knowledge graph summarization. Bioinformatics, 2021, 37, 2988-2995.	1.8	67
10	Machine learning applications for therapeutic tasks with genomics data. Patterns, 2021, 2, 100328.	3.1	14
11	Multi-version Tensor Completion for Time-delayed Spatio-temporal Data. , 2021, , .		0
12	Predicting neurological outcome in comatose patients after cardiac arrest with multiscale deep neural networks. Resuscitation, 2021, 169, 86-94.	1.3	12
13	Using the PARAFAC2 tensor factorization on EHR audit data to understand PCP desktop work. Journal of Biomedical Informatics, 2020, 101, 103312.	2.5	4
14	SkipGNN: predicting molecular interactions with skip-graph networks. Scientific Reports, 2020, 10, 21092.	1.6	53
15	Doctor2Vec: Dynamic Doctor Representation Learning for Clinical Trial Recruitment. Proceedings of the AAAI Conference on Artificial Intelligence, 2020, 34, 557-564.	3.6	7
16	Opportunities and challenges of deep learning methods for electrocardiogram data: A systematic review. Computers in Biology and Medicine, 2020, 122, 103801.	3.9	228
17	Dr. Agent: Clinical predictive model via mimicked second opinions. Journal of the American Medical Informatics Association: JAMIA, 2020, 27, 1084-1091.	2.2	8
18	TASTE. , 2020, 2020, 193-203.		22

#	ARTICLE	IF	CITATIONS
19	HOLMES: Health OnLine Model Ensemble Serving for Deep Learning Models in Intensive Care Units. , 2020, , .		29
20	LogPar: Logistic PARAFAC2 Factorization for Temporal Binary Data with Missing Values. , 2020, 2020, 1625-1635.		16
21	ViVA: Semi-Supervised Visualization via Variational Autoencoders. , 2020, , .		4
22	CP Tensor Decomposition with Cannot-Link Intermode Constraints. , 2019, 2019, 711-719.		2
23	Temporal phenotyping of medically complex children via PARAFAC2 tensor factorization. Journal of Biomedical Informatics, 2019, 93, 103125.	2.5	18
24	Recurrent Neural Networks for Early Detection of Heart Failure From Longitudinal Electronic Health Record Data. Circulation: Cardiovascular Quality and Outcomes, 2019, 12, e005114.	0.9	34
25	RetainVis: Visual Analytics with Interpretable and Interactive Recurrent Neural Networks on Electronic Medical Records. IEEE Transactions on Visualization and Computer Graphics, 2019, 25, 299-309.	2.9	167
26	MINA: Multilevel Knowledge-Guided Attention for Modeling Electrocardiography Signals. , 2019, , .		30
27	RDPD: Rich Data Helps Poor Data via Imitation. , 2019, , .		2
28	DDL: Deep Dictionary Learning for Predictive Phenotyping. , 2019, 2019, 5857-5863.		9
29	Predicting drug-resistant epilepsy “ A machine learning approach based on administrative claims data. Epilepsy and Behavior, 2018, 89, 118-125.	0.9	68
30	Expert-level sleep scoring with deep neural networks. Journal of the American Medical Informatics Association: JAMIA, 2018, 25, 1643-1650.	2.2	185
31	SUSTain. , 2018, 2018, 2080-2089.		11
32	Opportunities and challenges in developing deep learning models using electronic health records data: a systematic review. Journal of the American Medical Informatics Association: JAMIA, 2018, 25, 1419-1428.	2.2	465
33	RAIM. , 2018, , .		74
34	From hype to reality: data science enabling personalized medicine. BMC Medicine, 2018, 16, 150.	2.3	278
35	Privacy-Preserving Patient Similarity Learning in a Federated Environment: Development and Analysis. JMIR Medical Informatics, 2018, 6, e20.	1.3	112
36	Privacy-Preserving Predictive Modeling: Harmonization of Contextual Embeddings From Different Sources. JMIR Medical Informatics, 2018, 6, e33.	1.3	12

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37	Discriminative and Distinct Phenotyping by Constrained Tensor Factorization. Scientific Reports, 2017, 7, 1114.	1.6	21
38	Using recurrent neural network models for early detection of heart failure onset. Journal of the American Medical Informatics Association: JAMIA, 2017, 24, 361-370.	2.2	590
39	SPARTan. , 2017, , .		34
40	Federated Tensor Factorization for Computational Phenotyping. , 2017, 2017, 887-895.		62
41	GRAM. , 2017, 2017, 787-795.		368
42	Constraint based temporal event sequence mining for Glioblastoma survival prediction. Journal of Biomedical Informatics, 2016, 61, 267-275.	2.5	21
43	Multi-layer Representation Learning for Medical Concepts. , 2016, , .		279
44	Clinical phenotyping in selected national networks: demonstrating the need for high-throughput, portable, and computational methods. Artificial Intelligence in Medicine, 2016, 71, 57-61.	3.8	84
45	#PrayForDad: Learning the Semantics Behind Why Social Media Users Disclose Health Information. Proceedings of the International AAAI Conference on Weblogs and Social Media, 2016, 2016, 456-465.	1.5	4
46	Sparse Hierarchical Tucker Factorization and Its Application to Healthcare. , 2015, , .		28
47	Constructing Disease Network and Temporal Progression Model via Context-Sensitive Hawkes Process. , 2015, , .		50
48	Trends in biomedical informatics: automated topic analysis of JAMIA articles. Journal of the American Medical Informatics Association: JAMIA, 2015, 22, 1153-1163.	2.2	16
49	Building bridges across electronic health record systems through inferred phenotypic topics. Journal of Biomedical Informatics, 2015, 55, 82-93.	2.5	42
50	Survey on distance metric learning and dimensionality reduction in data mining. Data Mining and Knowledge Discovery, 2015, 29, 534-564.	2.4	123
51	Rubik. , 2015, 2015, 1265-1274.		108
52	Personalized Predictive Modeling and Risk Factor Identification using Patient Similarity. AMIA Summits on Translational Science Proceedings, 2015, 2015, 132-6.	0.4	24
53	Cloud-based Predictive Modeling System and its Application to Asthma Readmission Prediction. AMIA ... Annual Symposium proceedings, 2015, 2015, 406-15.	0.2	2
54	Limestone: High-throughput candidate phenotype generation via tensor factorization. Journal of Biomedical Informatics, 2014, 52, 199-211.	2.5	121

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55	Automatic identification of heart failure diagnostic criteria, using text analysis of clinical notes from electronic health records. International Journal of Medical Informatics, 2014, 83, 983-992.	1.6	106
56	PARAMO: A PARAllel predictive MOdeling platform for healthcare analytic research using electronic health records. Journal of Biomedical Informatics, 2014, 48, 160-170.	2.5	90
57	Informatics methods in medical privacy. Journal of Biomedical Informatics, 2014, 50, 1-3.	2.5	9
58	Prevalence of Heart Failure Signs and Symptoms in a Large Primary Care Population Identified Through the Use of Text and Data Mining of the Electronic Health Record. Journal of Cardiac Failure, 2014, 20, 459-464.	0.7	72
59	Supervised patient similarity measure of heterogeneous patient records. SIGKDD Explorations: Newsletter of the Special Interest Group (SIG) on Knowledge Discovery & Data Mining, 2012, 14, 16-24.	3.2	113
60	Composite distance metric integration by leveraging multiple experts' inputs and its application in patient similarity assessment. Statistical Analysis and Data Mining, 2012, 5, 54-69.	1.4	19
61	Combining knowledge and data driven insights for identifying risk factors using electronic health records. AMIA ... Annual Symposium proceedings, 2012, 2012, 901-10.	0.2	39
62	Integrating Distance Metrics Learned from Multiple Experts and its Application in Patient Similarity Assessment. , 2011, , .		26
63	iMet: Interactive Metric Learning in Healthcare Applications. , 2011, , .		17
64	A System for Mining Temporal Physiological Data Streams for Advanced Prognostic Decision Support. , 2010, , .		34
65	Localized Supervised Metric Learning on Temporal Physiological Data. , 2010, , .		30
66	Predicting Patient's Trajectory of Physiological Data using Temporal Trends in Similar Patients: A System for Near-Term Prognostics. AMIA ... Annual Symposium proceedings, 2010, 2010, 192-6.	0.2	21