

# Jimeng Sun

## List of Publications by Year in descending order

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Version: 2024-02-01

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	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
2	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
3	GRAM. , 2017, 2017, 787-795.		368
4	Multi-layer Representation Learning for Medical Concepts. , 2016, , .		279
5	From hype to reality: data science enabling personalized medicine. BMC Medicine, 2018, 16, 150.	2.3	278
6	Opportunities and challenges of deep learning methods for electrocardiogram data: A systematic review. Computers in Biology and Medicine, 2020, 122, 103801.	3.9	228
7	Expert-level sleep scoring with deep neural networks. Journal of the American Medical Informatics Association: JAMIA, 2018, 25, 1643-1650.	2.2	185
8	DeepPurpose: a deep learning library for drug-target interaction prediction. Bioinformatics, 2021, 36, 5545-5547.	1.8	176
9	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
10	MolTrans: Molecular Interaction Transformer for drug-target interaction prediction. Bioinformatics, 2021, 37, 830-836.	1.8	162
11	Survey on distance metric learning and dimensionality reduction in data mining. Data Mining and Knowledge Discovery, 2015, 29, 534-564.	2.4	123
12	Limestone: High-throughput candidate phenotype generation via tensor factorization. Journal of Biomedical Informatics, 2014, 52, 199-211.	2.5	121
13	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
14	Privacy-Preserving Patient Similarity Learning in a Federated Environment: Development and Analysis. JMIR Medical Informatics, 2018, 6, e20.	1.3	112
15	Rubik. , 2015, 2015, 1265-1274.		108
16	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
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	RAIM. , 2018, , .		74
20	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
21	Predicting drug-resistant epilepsy “ A machine learning approach based on administrative claims data. Epilepsy and Behavior, 2018, 89, 118-125.	0.9	68
22	SumGNN: multi-typed drug interaction prediction via efficient knowledge graph summarization. Bioinformatics, 2021, 37, 2988-2995.	1.8	67
23	Federated Tensor Factorization for Computational Phenotyping. , 2017, 2017, 887-895.		62
24	SkipGNN: predicting molecular interactions with skip-graph networks. Scientific Reports, 2020, 10, 21092.	1.6	53
25	Constructing Disease Network and Temporal Progression Model via Context-Sensitive Hawkes Process. , 2015, , .		50
26	Building bridges across electronic health record systems through inferred phenotypic topics. Journal of Biomedical Informatics, 2015, 55, 82-93.	2.5	42
27	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
28	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
29	A System for Mining Temporal Physiological Data Streams for Advanced Prognostic Decision Support. , 2010, , .		34
30	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
31	SPARTan. , 2017, , .		34
32	Localized Supervised Metric Learning on Temporal Physiological Data. , 2010, , .		30
33	MINA: Multilevel Knowledge-Guided Attention for Modeling Electrocardiography Signals. , 2019, , .		30
34	HOLMES: Health OnLine Model Ensemble Serving for Deep Learning Models in Intensive Care Units. , 2020, , .		29
35	Sparse Hierarchical Tucker Factorization and Its Application to Healthcare. , 2015, , .		28
36	Integrating Distance Metrics Learned from Multiple Experts and its Application in Patient Similarity Assessment. , 2011, , .		26

#	ARTICLE	IF	CITATIONS
37	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
38	Personalized Predictive Modeling and Risk Factor Identification using Patient Similarity. AMIA Summits on Translational Science Proceedings, 2015, 2015, 132-6.	0.4	24
39	TASTE. , 2020, 2020, 193-203.		22
40	Constraint based temporal event sequence mining for Glioblastoma survival prediction. Journal of Biomedical Informatics, 2016, 61, 267-275.	2.5	21
41	Discriminative and Distinct Phenotyping by Constrained Tensor Factorization. Scientific Reports, 2017, 7, 1114.	1.6	21
42	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
43	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
44	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
45	Temporal phenotyping of medically complex children via PARAFAC2 tensor factorization. Journal of Biomedical Informatics, 2019, 93, 103125.	2.5	18
46	iMet: Interactive Metric Learning in Healthcare Applications. , 2011, , .		17
47	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
48	LogPar: Logistic PARAFAC2 Factorization for Temporal Binary Data with Missing Values. , 2020, 2020, 1625-1635.		16
49	Machine learning applications for therapeutic tasks with genomics data. Patterns, 2021, 2, 100328.	3.1	14
50	Privacy-Preserving Predictive Modeling: Harmonization of Contextual Embeddings From Different Sources. JMIR Medical Informatics, 2018, 6, e33.	1.3	12
51	Predicting neurological outcome in comatose patients after cardiac arrest with multiscale deep neural networks. Resuscitation, 2021, 169, 86-94.	1.3	12
52	HINT: Hierarchical interaction network for clinical-trial-outcome predictions. Patterns, 2022, 3, 100445.	3.1	12
53	SUSTain. , 2018, 2018, 2080-2089.		11
54	Informatics methods in medical privacy. Journal of Biomedical Informatics, 2014, 50, 1-3.	2.5	9

#	ARTICLE	IF	CITATIONS
55	DDL: Deep Dictionary Learning for Predictive Phenotyping. , 2019, 2019, 5857-5863.		9
56	Dr. Agent: Clinical predictive model via mimicked second opinions. Journal of the American Medical Informatics Association: JAMIA, 2020, 27, 1084-1091.	2.2	8
57	Doctor2Vec: Dynamic Doctor Representation Learning for Clinical Trial Recruitment. Proceedings of the AAAI Conference on Artificial Intelligence, 2020, 34, 557-564.	3.6	7
58	Using the PARAFAC2 tensor factorization on EHR audit data to understand PCP desktop work. Journal of Biomedical Informatics, 2020, 101, 103312.	2.5	4
59	#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
60	ViVA: Semi-Supervised Visualization via Variational Autoencoders. , 2020, , .		4
61	CP Tensor Decomposition with Cannot-Link Intermode Constraints. , 2019, 2019, 711-719.		2
62	RDPD: Rich Data Helps Poor Data via Imitation. , 2019, , .		2
63	Cloud-based Predictive Modeling System and its Application to Asthma Readmission Prediction. AMIA ... Annual Symposium proceedings, 2015, 2015, 406-15.	0.2	2
64	CHEER: Rich Model Helps Poor Model via Knowledge Infusion. IEEE Transactions on Knowledge and Data Engineering, 2022, 34, 531-543.	4.0	1
65	PopNet: Real-Time Population-Level Disease Prediction with Data Latency. , 2022, , .		1
66	Multi-version Tensor Completion for Time-delayed Spatio-temporal Data. , 2021, , .		0