Fei Wang

List of Publications by Year
in descending order

64 papers	4,682 citations	279798 23 h-index	155660 55 g-index
71 all docs	71 docs citations	71 times ranked	5561 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	Federated Learning for Healthcare Informatics. Journal of Healthcare Informatics Research, 2021, 5, 1-19.	7.6	499
3	Patient Subtyping via Time-Aware LSTM Networks. , 2017, , .		333
4	Risk Prediction with Electronic Health Records: A Deep Learning Approach. , 2016, , .		238
5	Deep learning in mental health outcome research: a scoping review. Translational Psychiatry, 2020, 10, 116.	4.8	144
6	AI in Health: State of the Art, Challenges, and Future Directions. Yearbook of Medical Informatics, 2019, 28, 016-026.	1.0	138
7	Predictive Modeling of the Hospital Readmission Risk from Patientsâ€™ Claims Data Using Machine Learning: A Case Study on COPD. Scientific Reports, 2019, 9, 2362.	3.3	122
8	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.	4.0	113
9	Privacy-Preserving Patient Similarity Learning in a Federated Environment: Development and Analysis. JMIR Medical Informatics, 2018, 6, e20.	2.6	112
10	Federated Learning of Electronic Health Records to Improve Mortality Prediction in Hospitalized Patients With COVID-19: Machine Learning Approach. JMIR Medical Informatics, 2021, 9, e24207.	2.6	108
11	Network embedding in biomedical data science. Briefings in Bioinformatics, 2020, 21, 182-197.	6.5	105
12	Temporal Phenotyping from Longitudinal Electronic Health Records. , 2015, , .		103
13	Deep representation learning of patient data from Electronic Health Records (EHR): A systematic review. Journal of Biomedical Informatics, 2021, 115, 103671.	4.3	86
14	Routine Laboratory Blood Tests Predict SARS-CoV-2 Infection Using Machine Learning. Clinical Chemistry, 2020, 66, 1396-1404.	3.2	84
15	Readmission prediction via deep contextual embedding of clinical concepts. PLoS ONE, 2018, 13, e0195024.	2.5	80
16	Data-Driven Subtyping of Parkinsonâ€™s Disease Using Longitudinal Clinical Records: A Cohort Study. Scientific Reports, 2019, 9, 797.	3.3	76
17	A Framework for Mining Signatures from Event Sequences and Its Applications in Healthcare Data. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2013, 35, 272-285.	13.9	67
18	Machine learning for suicide risk prediction in children and adolescents with electronic health records. Translational Psychiatry, 2020, 10, 413.	4.8	60

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19	AD-linked R47H- TREM2 mutation induces disease-enhancing microglial states via AKT hyperactivation. Science Translational Medicine, 2021, 13, eabe3947.	12.4	55
20	Identifying sub-phenotypes of acute kidney injury using structured and unstructured electronic health record data with memory networks. Journal of Biomedical Informatics, 2020, 102, 103361.	4.3	49
21	Developing a FHIR-based EHR phenotyping framework: A case study for identification of patients with obesity and multiple comorbidities from discharge summaries. Journal of Biomedical Informatics, 2019, 99, 103310.	4.3	48
22	A Predictive Model for Medical Events Based on Contextual Embedding of Temporal Sequences. JMIR Medical Informatics, 2016, 4, e39.	2.6	48
23	Knowledge-driven drug repurposing using a comprehensive drug knowledge graph. Health Informatics Journal, 2020, 26, 2737-2750.	2.1	46
24	Predictive modeling in urgent care: a comparative study of machine learning approaches. JAMIA Open, 2018, 1, 87-98.	2.0	38
25	CODER: Knowledge-infused cross-lingual medical term embedding for term normalization. Journal of Biomedical Informatics, 2022, 126, 103983.	4.3	33
26	Which Doctor to Trust: A Recommender System for Identifying the Right Doctors. Journal of Medical Internet Research, 2016, 18, e186.	4.3	30
27	Drug knowledge bases and their applications in biomedical informatics research. Briefings in Bioinformatics, 2019, 20, 1308-1321.	6.5	29
28	Mining genetic and transcriptomic data using machine learning approaches in Parkinsonâ€™s disease. Npj Parkinson's Disease, 2020, 6, 24.	5.3	25
29	Improving clustering by learning a bi-stochastic data similarity matrix. Knowledge and Information Systems, 2012, 32, 351-382.	3.2	23
30	Clinical risk prediction with multilinear sparse logistic regression. , 2014, , .		23
31	Contrastive learning improves critical event prediction in COVID-19 patients. Patterns, 2021, 2, 100389.	5.9	21
32	Identifying organ dysfunction trajectory-based subphenotypes in critically ill patients with COVID-19. Scientific Reports, 2021, 11, 15872.	3.3	20
33	An MCEM Framework for Drug Safety Signal Detection and Combination from Heterogeneous Real World Evidence. Scientific Reports, 2018, 8, 1806.	3.3	18
34	Exploring the feasibility of using real-world data from a large clinical data research network to simulate clinical trials of Alzheimerâ€™s disease. Npj Digital Medicine, 2021, 4, 84.	10.9	18
35	Clinical subphenotypes in COVID-19: derivation, validation, prediction, temporal patterns, and interaction with social determinants of health. Npj Digital Medicine, 2021, 4, 110.	10.9	18
36	Artificial intelligence for COVID-19: battling the pandemic with computational intelligence. Intelligent Medicine, 2022, 2, 13-29.	3.1	18

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37	Federated Patient Hashing. Proceedings of the AAAI Conference on Artificial Intelligence, 2020, 34, 6486-6493.	4.9	14
38	Comprehensive subtyping of Parkinsonâ€™s disease patients with similarity fusion: a case study with BioFIND data. Npj Parkinson's Disease, 2021, 7, 83.	5.3	14
39	Identifying risk factors for mortality among patients previously hospitalized for a suicide attempt. Scientific Reports, 2020, 10, 15223.	3.3	13
40	ALeRT-COVID: Attentive Lockdown-awaRe Transfer Learning for Predicting COVID-19 Pandemics in Different Countries. Journal of Healthcare Informatics Research, 2021, 5, 98-113.	7.6	13
41	Subphenotyping depression using machine learning and electronic health records. Learning Health Systems, 2020, 4, e10241.	2.0	12
42	Machine Learning for Predicting Rare Clinical Outcomesâ€”Finding Needles in a Haystack. JAMA Network Open, 2021, 4, e2110738.	5.9	11
43	A call for open data to develop mental health digital biomarkers. BJPsych Open, 2022, 8, e58.	0.7	10
44	Improving suicide risk prediction via targeted data fusion: proof of concept using medical claims data. Journal of the American Medical Informatics Association: JAMIA, 2022, 29, 500-511.	4.4	9
45	Recent Advances on Graph Analytics and Its Applications in Healthcare. , 2020, , .		8
46	Robust finite mixture regression for heterogeneous targets. Data Mining and Knowledge Discovery, 2018, 32, 1509-1560.	3.7	6
47	Model-Protected Multi-Task Learning. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 1002-1019.	13.9	6
48	Deep significance clustering: a novel approach for identifying risk-stratified and predictive patient subgroups. Journal of the American Medical Informatics Association: JAMIA, 2021, 28, 2641-2653.	4.4	6
49	DCMN: Double Core Memory Network for Patient Outcome Prediction with Multimodal Data. , 2019, , .		4
50	Editorial: Deep learning for medical image analysis. Neurocomputing, 2020, 392, 121-123.	5.9	4
51	A(DP)^2SGD: Asynchronous Decentralized Parallel Stochastic Gradient Descent with Differential Privacy. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, PP, 1-1.	13.9	4
52	Self-Correcting Recurrent Neural Network for Acute Kidney Injury Prediction in Critical Care. Health Data Science, 2021, 2021, .	2.3	4
53	Development of a screening algorithm for borderline personality disorder using electronic health records. Scientific Reports, 2022, 12, .	3.3	4
54	Design and validation of a FHIR-based EHR-driven phenotyping toolbox. Journal of the American Medical Informatics Association: JAMIA, 0, , .	4.4	4

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55	Comorbid neuropsychiatric and autonomic features in REM sleep behavior disorder. Clinical Parkinsonism & Related Disorders, 2020, 3, 100044.	0.9	3
56	Comparison of the Parkinsonâ€™s KinetiGraph to off/on levodopa response testing: Single center experience. Clinical Neurology and Neurosurgery, 2021, 209, 106890.	1.4	3
57	Clinical risk prediction by exploring high-order feature correlations. AMIA ... Annual Symposium proceedings, 2014, 2014, 1170-9.	0.2	3
58	JASIST special issue on biomedical information retrieval. Journal of the Association for Information Science and Technology, 2017, 68, 2525-2528.	2.9	2
59	Structural and Textual Information Fusion for Symptom and Disease Representation Learning. IEEE Transactions on Knowledge and Data Engineering, 2022, 34, 4468-4483.	5.7	2
60	Machine Learning Highlights Downtrending of COVID-19 Patients with a Distinct Laboratory Profile. Health Data Science, 2021, 2021, .	2.3	1
61	Predictive Modeling of the Total Joint Replacement Surgery Risk: a Deep Learning Based Approach with Claims Data. AMIA Summits on Translational Science Proceedings, 2019, 2019, 562-571.	0.4	1
62	CQL4NLP: Development and Integration of FHIR NLP Extensions in Clinical Quality Language for EHR-driven Phenotyping. AMIA Summits on Translational Science Proceedings, 2021, 2021, 624-633.	0.4	1
63	Integration of NLP2FHIR Representation with Deep Learning Models for EHR Phenotyping: A Pilot Study on Obesity Datasets. AMIA Summits on Translational Science Proceedings, 2021, 2021, 410-419.	0.4	0
64	Simulating Colorectal Cancer Trials Using Real-World Data. JCO Clinical Cancer Informatics, 2022, , .	2.1	0