

# Fei Wang

## List of Publications by Year in descending order

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Version: 2024-02-01

64  
papers

4,682  
citations

279487

23  
h-index

155451

55  
g-index

71  
all docs

71  
docs citations

71  
times ranked

5561  
citing authors

#	ARTICLE	IF	CITATIONS
1	Model-Protected Multi-Task Learning. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 1002-1019.	9.7	6
2	Structural and Textual Information Fusion for Symptom and Disease Representation Learning. IEEE Transactions on Knowledge and Data Engineering, 2022, 34, 4468-4483.	4.0	2
3	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.	2.2	9
4	Artificial intelligence for COVID-19: battling the pandemic with computational intelligence. Intelligent Medicine, 2022, 2, 13-29.	1.6	18
5	CODER: Knowledge-infused cross-lingual medical term embedding for term normalization. Journal of Biomedical Informatics, 2022, 126, 103983.	2.5	33
6	A call for open data to develop mental health digital biomarkers. BJPsych Open, 2022, 8, e58.	0.3	10
7	Development of a screening algorithm for borderline personality disorder using electronic health records. Scientific Reports, 2022, 12, .	1.6	4
8	Simulating Colorectal Cancer Trials Using Real-World Data. JCO Clinical Cancer Informatics, 2022, , .	1.0	0
9	Federated Learning for Healthcare Informatics. Journal of Healthcare Informatics Research, 2021, 5, 1-19.	5.3	499
10	ALeRT-COVID: Attentive Lockdown-awaRe Transfer Learning for Predicting COVID-19 Pandemics in Different Countries. Journal of Healthcare Informatics Research, 2021, 5, 98-113.	5.3	13
11	A(DP) <sup>2</sup> SGD: Asynchronous Decentralized Parallel Stochastic Gradient Descent with Differential Privacy. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, PP, 1-1.	9.7	4
12	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.	1.3	108
13	Deep representation learning of patient data from Electronic Health Records (EHR): A systematic review. Journal of Biomedical Informatics, 2021, 115, 103671.	2.5	86
14	Machine Learning for Predicting Rare Clinical Outcomes—Finding Needles in a Haystack. JAMA Network Open, 2021, 4, e2110738.	2.8	11
15	Exploring the feasibility of using real-world data from a large clinical data research network to simulate clinical trials of Alzheimer’s disease. Npj Digital Medicine, 2021, 4, 84.	5.7	18
16	Machine Learning Highlights Downtrending of COVID-19 Patients with a Distinct Laboratory Profile. Health Data Science, 2021, 2021, .	1.1	1
17	Clinical subphenotypes in COVID-19: derivation, validation, prediction, temporal patterns, and interaction with social determinants of health. Npj Digital Medicine, 2021, 4, 110.	5.7	18
18	Identifying organ dysfunction trajectory-based subphenotypes in critically ill patients with COVID-19. Scientific Reports, 2021, 11, 15872.	1.6	20

#	ARTICLE	IF	CITATIONS
19	Comprehensive subtyping of Parkinson's disease patients with similarity fusion: a case study with BioFIND data. <i>Npj Parkinson's Disease</i> , 2021, 7, 83.	2.5	14
20	Deep significance clustering: a novel approach for identifying risk-stratified and predictive patient subgroups. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2021, 28, 2641-2653.	2.2	6
21	Comparison of the Parkinson's KinetiGraph to off/on levodopa response testing: Single center experience. <i>Clinical Neurology and Neurosurgery</i> , 2021, 209, 106890.	0.6	3
22	Contrastive learning improves critical event prediction in COVID-19 patients. <i>Patterns</i> , 2021, 2, 100389.	3.1	21
23	Integration of NLP2FHIR Representation with Deep Learning Models for EHR Phenotyping: A Pilot Study on Obesity Datasets. <i>AMIA Summits on Translational Science Proceedings</i> , 2021, 2021, 410-419.	0.4	0
24	CQL4NLP: Development and Integration of FHIR NLP Extensions in Clinical Quality Language for EHR-driven Phenotyping. <i>AMIA Summits on Translational Science Proceedings</i> , 2021, 2021, 624-633.	0.4	1
25	AD-linked R47H- <i>TREM2</i> mutation induces disease-enhancing microglial states via AKT hyperactivation. <i>Science Translational Medicine</i> , 2021, 13, eabe3947.	5.8	55
26	Self-Correcting Recurrent Neural Network for Acute Kidney Injury Prediction in Critical Care. <i>Health Data Science</i> , 2021, 2021, .	1.1	4
27	Editorial: Deep learning for medical image analysis. <i>Neurocomputing</i> , 2020, 392, 121-123.	3.5	4
28	Network embedding in biomedical data science. <i>Briefings in Bioinformatics</i> , 2020, 21, 182-197.	3.2	105
29	Identifying sub-phenotypes of acute kidney injury using structured and unstructured electronic health record data with memory networks. <i>Journal of Biomedical Informatics</i> , 2020, 102, 103361.	2.5	49
30	Federated Patient Hashing. <i>Proceedings of the AAAI Conference on Artificial Intelligence</i> , 2020, 34, 6486-6493.	3.6	14
31	Knowledge-driven drug repurposing using a comprehensive drug knowledge graph. <i>Health Informatics Journal</i> , 2020, 26, 2737-2750.	1.1	46
32	Machine learning for suicide risk prediction in children and adolescents with electronic health records. <i>Translational Psychiatry</i> , 2020, 10, 413.	2.4	60
33	Subphenotyping depression using machine learning and electronic health records. <i>Learning Health Systems</i> , 2020, 4, e10241.	1.1	12
34	Mining genetic and transcriptomic data using machine learning approaches in Parkinson's disease. <i>Npj Parkinson's Disease</i> , 2020, 6, 24.	2.5	25
35	Identifying risk factors for mortality among patients previously hospitalized for a suicide attempt. <i>Scientific Reports</i> , 2020, 10, 15223.	1.6	13
36	Routine Laboratory Blood Tests Predict SARS-CoV-2 Infection Using Machine Learning. <i>Clinical Chemistry</i> , 2020, 66, 1396-1404.	1.5	84

#	ARTICLE	IF	CITATIONS
37	Deep learning in mental health outcome research: a scoping review. <i>Translational Psychiatry</i> , 2020, 10, 116.	2.4	144
38	Comorbid neuropsychiatric and autonomic features in REM sleep behavior disorder. <i>Clinical Parkinsonism &amp; Related Disorders</i> , 2020, 3, 100044.	0.5	3
39	Recent Advances on Graph Analytics and Its Applications in Healthcare. , 2020, , .		8
40	AI in Health: State of the Art, Challenges, and Future Directions. <i>Yearbook of Medical Informatics</i> , 2019, 28, 016-026.	0.8	138
41	Developing a FHIR-based EHR phenotyping framework: A case study for identification of patients with obesity and multiple comorbidities from discharge summaries. <i>Journal of Biomedical Informatics</i> , 2019, 99, 103310.	2.5	48
42	Data-Driven Subtyping of Parkinson's Disease Using Longitudinal Clinical Records: A Cohort Study. <i>Scientific Reports</i> , 2019, 9, 797.	1.6	76
43	Predictive Modeling of the Hospital Readmission Risk from Patients' Claims Data Using Machine Learning: A Case Study on COPD. <i>Scientific Reports</i> , 2019, 9, 2362.	1.6	122
44	DCMN: Double Core Memory Network for Patient Outcome Prediction with Multimodal Data. , 2019, , .		4
45	Drug knowledge bases and their applications in biomedical informatics research. <i>Briefings in Bioinformatics</i> , 2019, 20, 1308-1321.	3.2	29
46	Predictive Modeling of the Total Joint Replacement Surgery Risk: a Deep Learning Based Approach with Claims Data. <i>AMIA Summits on Translational Science Proceedings</i> , 2019, 2019, 562-571.	0.4	1
47	Robust finite mixture regression for heterogeneous targets. <i>Data Mining and Knowledge Discovery</i> , 2018, 32, 1509-1560.	2.4	6
48	An MCEM Framework for Drug Safety Signal Detection and Combination from Heterogeneous Real World Evidence. <i>Scientific Reports</i> , 2018, 8, 1806.	1.6	18
49	Deep learning for healthcare: review, opportunities and challenges. <i>Briefings in Bioinformatics</i> , 2018, 19, 1236-1246.	3.2	1,459
50	Predictive modeling in urgent care: a comparative study of machine learning approaches. <i>JAMIA Open</i> , 2018, 1, 87-98.	1.0	38
51	Readmission prediction via deep contextual embedding of clinical concepts. <i>PLoS ONE</i> , 2018, 13, e0195024.	1.1	80
52	Privacy-Preserving Patient Similarity Learning in a Federated Environment: Development and Analysis. <i>JMIR Medical Informatics</i> , 2018, 6, e20.	1.3	112
53	<i>JASIST</i> special issue on biomedical information retrieval. <i>Journal of the Association for Information Science and Technology</i> , 2017, 68, 2525-2528.	1.5	2
54	Patient Subtyping via Time-Aware LSTM Networks. , 2017, , .		333

#	ARTICLE	IF	CITATIONS
55	Risk Prediction with Electronic Health Records: A Deep Learning Approach. , 2016, , .		238
56	Which Doctor to Trust: A Recommender System for Identifying the Right Doctors. Journal of Medical Internet Research, 2016, 18, e186.	2.1	30
57	A Predictive Model for Medical Events Based on Contextual Embedding of Temporal Sequences. JMIR Medical Informatics, 2016, 4, e39.	1.3	48
58	Temporal Phenotyping from Longitudinal Electronic Health Records. , 2015, , .		103
59	Clinical risk prediction with multilinear sparse logistic regression. , 2014, , .		23
60	Clinical risk prediction by exploring high-order feature correlations. AMIA ... Annual Symposium proceedings, 2014, 2014, 1170-9.	0.2	3
61	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.	9.7	67
62	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
63	Improving clustering by learning a bi-stochastic data similarity matrix. Knowledge and Information Systems, 2012, 32, 351-382.	2.1	23
64	Design and validation of a FHIR-based EHR-driven phenotyping toolbox. Journal of the American Medical Informatics Association: JAMIA, 0, , .	2.2	4