

# 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	Deep learning for healthcare: review, opportunities and challenges. Briefings in Bioinformatics, 2018, 19, 1236-1246.	3.2	1,459
2	Federated Learning for Healthcare Informatics. Journal of Healthcare Informatics Research, 2021, 5, 1-19.	5.3	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.	2.4	144
6	AI in Health: State of the Art, Challenges, and Future Directions. Yearbook of Medical Informatics, 2019, 28, 016-026.	0.8	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.	1.6	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.	3.2	113
9	Privacy-Preserving Patient Similarity Learning in a Federated Environment: Development and Analysis. JMIR Medical Informatics, 2018, 6, e20.	1.3	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.	1.3	108
11	Network embedding in biomedical data science. Briefings in Bioinformatics, 2020, 21, 182-197.	3.2	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.	2.5	86
14	Routine Laboratory Blood Tests Predict SARS-CoV-2 Infection Using Machine Learning. Clinical Chemistry, 2020, 66, 1396-1404.	1.5	84
15	Readmission prediction via deep contextual embedding of clinical concepts. PLoS ONE, 2018, 13, e0195024.	1.1	80
16	Data-Driven Subtyping of Parkinsonâ€™s Disease Using Longitudinal Clinical Records: A Cohort Study. Scientific Reports, 2019, 9, 797.	1.6	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.	9.7	67
18	Machine learning for suicide risk prediction in children and adolescents with electronic health records. Translational Psychiatry, 2020, 10, 413.	2.4	60

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	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
22	A Predictive Model for Medical Events Based on Contextual Embedding of Temporal Sequences. <i>JMIR Medical Informatics</i> , 2016, 4, e39.	1.3	48
23	Knowledge-driven drug repurposing using a comprehensive drug knowledge graph. <i>Health Informatics Journal</i> , 2020, 26, 2737-2750.	1.1	46
24	Predictive modeling in urgent care: a comparative study of machine learning approaches. <i>JAMIA Open</i> , 2018, 1, 87-98.	1.0	38
25	CODER: Knowledge-infused cross-lingual medical term embedding for term normalization. <i>Journal of Biomedical Informatics</i> , 2022, 126, 103983.	2.5	33
26	Which Doctor to Trust: A Recommender System for Identifying the Right Doctors. <i>Journal of Medical Internet Research</i> , 2016, 18, e186.	2.1	30
27	Drug knowledge bases and their applications in biomedical informatics research. <i>Briefings in Bioinformatics</i> , 2019, 20, 1308-1321.	3.2	29
28	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
29	Improving clustering by learning a bi-stochastic data similarity matrix. <i>Knowledge and Information Systems</i> , 2012, 32, 351-382.	2.1	23
30	Clinical risk prediction with multilinear sparse logistic regression. , 2014, , .		23
31	Contrastive learning improves critical event prediction in COVID-19 patients. <i>Patterns</i> , 2021, 2, 100389.	3.1	21
32	Identifying organ dysfunction trajectory-based subphenotypes in critically ill patients with COVID-19. <i>Scientific Reports</i> , 2021, 11, 15872.	1.6	20
33	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
34	Exploring the feasibility of using real-world data from a large clinical data research network to simulate clinical trials of Alzheimer's disease. <i>Npj Digital Medicine</i> , 2021, 4, 84.	5.7	18
35	Clinical subphenotypes in COVID-19: derivation, validation, prediction, temporal patterns, and interaction with social determinants of health. <i>Npj Digital Medicine</i> , 2021, 4, 110.	5.7	18
36	Artificial intelligence for COVID-19: battling the pandemic with computational intelligence. <i>Intelligent Medicine</i> , 2022, 2, 13-29.	1.6	18

#	ARTICLE	IF	CITATIONS
37	Federated Patient Hashing. Proceedings of the AAAI Conference on Artificial Intelligence, 2020, 34, 6486-6493.	3.6	14
38	Comprehensive subtyping of Parkinson's disease patients with similarity fusion: a case study with BioFIND data. Npj Parkinson's Disease, 2021, 7, 83.	2.5	14
39	Identifying risk factors for mortality among patients previously hospitalized for a suicide attempt. Scientific Reports, 2020, 10, 15223.	1.6	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.	5.3	13
41	Subphenotyping depression using machine learning and electronic health records. Learning Health Systems, 2020, 4, e10241.	1.1	12
42	Machine Learning for Predicting Rare Clinical Outcomes—Finding Needles in a Haystack. JAMA Network Open, 2021, 4, e2110738.	2.8	11
43	A call for open data to develop mental health digital biomarkers. BJPsych Open, 2022, 8, e58.	0.3	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.	2.2	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.	2.4	6
47	Model-Protected Multi-Task Learning. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 1002-1019.	9.7	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.	2.2	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.	3.5	4
51	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
52	Self-Correcting Recurrent Neural Network for Acute Kidney Injury Prediction in Critical Care. Health Data Science, 2021, 2021, .	1.1	4
53	Development of a screening algorithm for borderline personality disorder using electronic health records. Scientific Reports, 2022, 12, .	1.6	4
54	Design and validation of a FHIR-based EHR-driven phenotyping toolbox. Journal of the American Medical Informatics Association: JAMIA, 0, , .	2.2	4

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55	Comorbid neuropsychiatric and autonomic features in REM sleep behavior disorder. <i>Clinical Parkinsonism &amp; Related Disorders</i> , 2020, 3, 100044.	0.5	3
56	Comparison of the Parkinsonâ€™s KinetiGraph to off/on levodopa response testing: Single center experience. <i>Clinical Neurology and Neurosurgery</i> , 2021, 209, 106890.	0.6	3
57	Clinical risk prediction by exploring high-order feature correlations. <i>AMIA ... Annual Symposium proceedings</i> , 2014, 2014, 1170-9.	0.2	3
58	<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
59	Structural and Textual Information Fusion for Symptom and Disease Representation Learning. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2022, 34, 4468-4483.	4.0	2
60	Machine Learning Highlights Downtrending of COVID-19 Patients with a Distinct Laboratory Profile. <i>Health Data Science</i> , 2021, 2021, .	1.1	1
61	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
62	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
63	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
64	Simulating Colorectal Cancer Trials Using Real-World Data. <i>JCO Clinical Cancer Informatics</i> , 2022, , .	1.0	0