

Yuan Luo

List of Publications by Year in descending order

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Version: 2024-02-01

140
papers

6,548
citations

76196

40
h-index

79541

73
g-index

168
all docs

168
docs citations

168
times ranked

6517
citing authors

#	ARTICLE	IF	CITATIONS
1	Graph Convolutional Networks for Text Classification. Proceedings of the AAAI Conference on Artificial Intelligence, 2019, 33, 7370-7377.	3.6	1,007
2	The power of genetic diversity in genome-wide association studies of lipids. Nature, 2021, 600, 675-679.	13.7	353
3	Evaluating the State-of-the-Art in Automatic De-identification. Journal of the American Medical Informatics Association: JAMIA, 2007, 14, 550-563.	2.2	331
4	PheKB: a catalog and workflow for creating electronic phenotype algorithms for transportability. Journal of the American Medical Informatics Association: JAMIA, 2016, 23, 1046-1052.	2.2	284
5	Identifying Patient Smoking Status from Medical Discharge Records. Journal of the American Medical Informatics Association: JAMIA, 2008, 15, 14-24.	2.2	283
6	Big Data and Data Science in Critical Care. Chest, 2018, 154, 1239-1248.	0.4	184
7	Natural Language Processing for EHR-Based Pharmacovigilance: A Structured Review. Drug Safety, 2017, 40, 1075-1089.	1.4	133
8	Natural Language Processing for EHR-Based Computational Phenotyping. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2019, 16, 139-153.	1.9	123
9	Recurrent neural networks for classifying relations in clinical notes. Journal of Biomedical Informatics, 2017, 72, 85-95.	2.5	119
10	Using Machine Learning to Predict Laboratory Test Results. American Journal of Clinical Pathology, 2016, 145, 778-788.	0.4	116
11	Desiderata for computable representations of electronic health records-driven phenotype algorithms. Journal of the American Medical Informatics Association: JAMIA, 2015, 22, 1220-1230.	2.2	110
12	Harmonizing Clinical Sequencing and Interpretation for the eMERGE III Network. American Journal of Human Genetics, 2019, 105, 588-605.	2.6	99
13	Circulating ACE2-expressing extracellular vesicles block broad strains of SARS-CoV-2. Nature Communications, 2022, 13, 405.	5.8	92
14	Identification of Four Novel Loci in Asthma in European American and African American Populations. American Journal of Respiratory and Critical Care Medicine, 2017, 195, 456-463.	2.5	91
15	Evolving phenotypes of non-hospitalized patients that indicate long COVID. BMC Medicine, 2021, 19, 249.	2.3	87
16	Automated clinical trial eligibility prescreening: increasing the efficiency of patient identification for clinical trials in the emergency department. Journal of the American Medical Informatics Association: JAMIA, 2015, 22, 166-178.	2.2	83
17	Increasing the efficiency of trial-patient matching: automated clinical trial eligibility Pre-screening for pediatric oncology patients. BMC Medical Informatics and Decision Making, 2015, 15, 28.	1.5	82
18	The role of machine learning in clinical research: transforming the future of evidence generation. Trials, 2021, 22, 537.	0.7	82

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19	Clinical text classification with rule-based features and knowledge-guided convolutional neural networks. <i>BMC Medical Informatics and Decision Making</i> , 2019, 19, 71.	1.5	76
20	3D-MICE: integration of cross-sectional and longitudinal imputation for multi-analyte longitudinal clinical data. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2018, 25, 645-653.	2.2	73
21	Developing and evaluating a machine learning based algorithm to predict the need of pediatric intensive care unit transfer for newly hospitalized children. <i>Resuscitation</i> , 2014, 85, 1065-1071.	1.3	72
22	Recent Advances in Supervised Dimension Reduction: A Survey. <i>Machine Learning and Knowledge Extraction</i> , 2019, 1, 341-358.	3.2	72
23	Large-scale evaluation of automated clinical note de-identification and its impact on information extraction. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2013, 20, 84-94.	2.2	67
24	Decentralized and reproducible geocoding and characterization of community and environmental exposures for multisite studies. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2018, 25, 309-314.	2.2	67
25	Statistical and machine learning methods for spatially resolved transcriptomics data analysis. <i>Genome Biology</i> , 2022, 23, 83.	3.8	66
26	A de-identifier for medical discharge summaries. <i>Artificial Intelligence in Medicine</i> , 2008, 42, 13-35.	3.8	65
27	Early prediction of acute kidney injury following ICU admission using a multivariate panel of physiological measurements. <i>BMC Medical Informatics and Decision Making</i> , 2019, 19, 16.	1.5	64
28	Segment convolutional neural networks (Seg-CNNs) for classifying relations in clinical notes. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2018, 25, 93-98.	2.2	62
29	What Every Reader Should Know About Studies Using Electronic Health Record Data but May Be Afraid to Ask. <i>Journal of Medical Internet Research</i> , 2021, 23, e22219.	2.1	61
30	Bridging semantics and syntax with graph algorithmsâ€”state-of-the-art of extracting biomedical relations. <i>Briefings in Bioinformatics</i> , 2017, 18, 160-178.	3.2	60
31	Using natural language processing and machine learning to identify breast cancer local recurrence. <i>BMC Bioinformatics</i> , 2018, 19, 498.	1.2	60
32	Electronic Health Record Based Algorithm to Identify Patients with Autism Spectrum Disorder. <i>PLoS ONE</i> , 2016, 11, e0159621.	1.1	59
33	Automatic lymphoma classification with sentence subgraph mining from pathology reports. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2014, 21, 824-832.	2.2	54
34	Predicting mortality in critically ill patients with diabetes using machine learning and clinical notes. <i>BMC Medical Informatics and Decision Making</i> , 2020, 20, 295.	1.5	51
35	Evaluating the impact of pre-annotation on annotation speed and potential bias: natural language processing gold standard development for clinical named entity recognition in clinical trial announcements. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2014, 21, 406-413.	2.2	50
36	Prediction of breast cancer distant recurrence using natural language processing and knowledge-guided convolutional neural network. <i>Artificial Intelligence in Medicine</i> , 2020, 110, 101977.	3.8	50

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37	Facilitating phenotype transfer using a common data model. Journal of Biomedical Informatics, 2019, 96, 103253.	2.5	49
38	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.	2.5	49
39	A multidimensional precision medicine approach identifies an autism subtype characterized by dyslipidemia. Nature Medicine, 2020, 26, 1375-1379.	15.2	49
40	Phenotyping for patient safety: algorithm development for electronic health record based automated adverse event and medical error detection in neonatal intensive care. Journal of the American Medical Informatics Association: JAMIA, 2014, 21, 776-784.	2.2	48
41	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.	2.5	48
42	Predicting ICU readmission using grouped physiological and medication trends. Artificial Intelligence in Medicine, 2019, 95, 27-37.	3.8	47
43	Subgraph augmented non-negative tensor factorization (SANTF) for modeling clinical narrative text. Journal of the American Medical Informatics Association: JAMIA, 2015, 22, 1009-1019.	2.2	46
44	Traditional Chinese medicine clinical records classification with BERT and domain specific corpora. Journal of the American Medical Informatics Association: JAMIA, 2019, 26, 1632-1636.	2.2	46
45	Derivation and Validation of Novel Phenotypes of Multiple Organ Dysfunction Syndrome in Critically Ill Children. JAMA Network Open, 2020, 3, e209271.	2.8	45
46	Evaluating the state of the art in missing data imputation for clinical data. Briefings in Bioinformatics, 2022, 23, .	3.2	42
47	Developing an Algorithm to Detect Early Childhood Obesity in Two Tertiary Pediatric Medical Centers. Applied Clinical Informatics, 2016, 07, 693-706.	0.8	39
48	Classifying relations in clinical narratives using segment graph convolutional and recurrent neural networks (Seg-GCRNs). Journal of the American Medical Informatics Association: JAMIA, 2019, 26, 262-268.	2.2	38
49	Tensor factorization toward precision medicine. Briefings in Bioinformatics, 2017, 18, bbw026.	3.2	37
50	Using Tweets to Understand How COVID-19-Related Health Beliefs Are Affected in the Age of Social Media: Twitter Data Analysis Study. Journal of Medical Internet Research, 2021, 23, e26302.	2.1	37
51	Validation of an internationally derived patient severity phenotype to support COVID-19 analytics from electronic health record data. Journal of the American Medical Informatics Association: JAMIA, 2021, 28, 1411-1420.	2.2	37
52	A Comparison of Pre-trained Vision-and-Language Models for Multimodal Representation Learning across Medical Images and Reports. , 2020, , .		35
53	Tensor Factorization for Precision Medicine in Heart Failure with Preserved Ejection Fraction. Journal of Cardiovascular Translational Research, 2017, 10, 305-312.	1.1	34
54	Early Prediction of Acute Kidney Injury in Critical Care Setting Using Clinical Notes. , 2018, 2018, 683-686.		34

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55	An end-to-end hybrid algorithm for automated medication discrepancy detection. BMC Medical Informatics and Decision Making, 2015, 15, 37.	1.5	33
56	International Analysis of Electronic Health Records of Children and Youth Hospitalized With COVID-19 Infection in 6 Countries. JAMA Network Open, 2021, 4, e2112596.	2.8	33
57	Distinguishing Admissions Specifically for COVID-19 From Incidental SARS-CoV-2 Admissions: National Retrospective Electronic Health Record Study. Journal of Medical Internet Research, 2022, 24, e37931.	2.1	33
58	Text Mining in Cancer Gene and Pathway Prioritization. Cancer Informatics, 2014, 13s1, CIN.S13874.	0.9	32
59	Developing a portable natural language processing based phenotyping system. BMC Medical Informatics and Decision Making, 2019, 19, 78.	1.5	32
60	Preparing an annotated gold standard corpus to share with extramural investigators for de-identification research. Journal of Biomedical Informatics, 2014, 50, 173-183.	2.5	29
61	Automated detection of medication administration errors in neonatal intensive care. Journal of Biomedical Informatics, 2015, 57, 124-133.	2.5	27
62	Making work visible for electronic phenotype implementation: Lessons learned from the eMERGE network. Journal of Biomedical Informatics, 2019, 99, 103293.	2.5	27
63	Building gold standard corpora for medical natural language processing tasks. AMIA ... Annual Symposium proceedings, 2012, 2012, 144-53.	0.2	26
64	Early Prediction of Acute Kidney Injury in Critical Care Setting Using Clinical Notes and Structured Multivariate Physiological Measurements. Studies in Health Technology and Informatics, 2019, 264, 368-372.	0.2	25
65	Designing and evaluating an automated system for real-time medication administration error detection in a neonatal intensive care unit. Journal of the American Medical Informatics Association: JAMIA, 2018, 25, 555-563.	2.2	24
66	Cancer classification and pathway discovery using non-negative matrix factorization. Journal of Biomedical Informatics, 2019, 96, 103247.	2.5	24
67	Sepsis subphenotyping based on organ dysfunction trajectory. Critical Care, 2022, 26, .	2.5	24
68	MedGCN: Medication recommendation and lab test imputation via graph convolutional networks. Journal of Biomedical Informatics, 2022, 127, 104000.	2.5	23
69	A deep-learning-based unsupervised model on esophageal manometry using variational autoencoder. Artificial Intelligence in Medicine, 2021, 112, 102006.	3.8	19
70	International Changes in COVID-19 Clinical Trajectories Across 315 Hospitals and 6 Countries: Retrospective Cohort Study. Journal of Medical Internet Research, 2021, 23, e31400.	2.1	19
71	A GWAS Study on Liver Function Test Using eMERGE Network Participants. PLoS ONE, 2015, 10, e0138677.	1.1	18
72	Toward a cross-platform electronic health record-driven phenotyping using Clinical Quality Language. Learning Health Systems, 2020, 4, e10233.	1.1	17

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73	International electronic health record-derived post-acute sequelae profiles of COVID-19 patients. <i>Npj Digital Medicine</i> , 2022, 5, .	5.7	17
74	A Mendelian Randomization Approach Using 3-HMG-Coenzyme-A Reductase Gene Variation to Evaluate the Association of Statin-Induced Low-Density Lipoprotein Cholesterol Lowering With Noncardiovascular Disease Phenotypes. <i>JAMA Network Open</i> , 2021, 4, e2112820.	2.8	16
75	Proactive vs Reactive Machine Learning in Health Care. <i>JAMA - Journal of the American Medical Association</i> , 2022, 327, 623.	3.8	16
76	Electronic medical records as a replacement for prospective research data collection in postoperative pain and opioid response studies. <i>International Journal of Medical Informatics</i> , 2018, 111, 45-50.	1.6	15
77	Identifying Breast Cancer Distant Recurrences from Electronic Health Records Using Machine Learning. <i>Journal of Healthcare Informatics Research</i> , 2019, 3, 283-299.	5.3	15
78	Performance-weighted voting model: An ensemble machine learning method for cancer type classification using whole-exome sequencing mutation. <i>Quantitative Biology</i> , 2020, 8, 347-358.	0.3	14
79	Simulation of Ventilator Allocation in Critically Ill Patients with COVID-19. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2021, 204, 1224-1227.	2.5	14
80	Deep learning for cancer type classification and driver gene identification. <i>BMC Bioinformatics</i> , 2021, 22, 491.	1.2	14
81	Supervised Nonnegative Matrix Factorization to Predict ICU Mortality Risk. , 2018, 2018, 1189-1194.		13
82	Deep Generative Classifiers for Thoracic Disease Diagnosis with Chest X-ray Images. , 2018, 2018, 1209-1214.		12
83	Integrating hypertension phenotype and genotype with hybrid non-negative matrix factorization. <i>Bioinformatics</i> , 2019, 35, 1395-1403.	1.8	12
84	Predictive modeling of bacterial infections and antibiotic therapy needs in critically ill adults. <i>Journal of Biomedical Informatics</i> , 2020, 109, 103540.	2.5	12
85	<sc>Data-driven</sc> discovery of probable Alzheimer's disease and related dementia subphenotypes using electronic health records. <i>Learning Health Systems</i> , 2020, 4, e10246.	1.1	12
86	Subphenotyping depression using machine learning and electronic health records. <i>Learning Health Systems</i> , 2020, 4, e10241.	1.1	12
87	A novel normalization and differential abundance test framework for microbiome data. <i>Bioinformatics</i> , 2020, 36, 3959-3965.	1.8	12
88	Data Challenges With Real-Time Safety Event Detection And Clinical Decision Support. <i>Journal of Medical Internet Research</i> , 2019, 21, e13047.	2.1	12
89	Stratified Mortality Prediction of Patients with Acute Kidney Injury in Critical Care. <i>Studies in Health Technology and Informatics</i> , 2019, 264, 462-466.	0.2	12
90	Preoperative magnetic resonance imaging use and oncologic outcomes in premenopausal breast cancer patients. <i>Npj Breast Cancer</i> , 2020, 6, 49.	2.3	10

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91	Somatic genetic aberrations in benign breast disease and the risk of subsequent breast cancer. <i>Npj Breast Cancer</i> , 2020, 6, 24.	2.3	10
92	Multinational characterization of neurological phenotypes in patients hospitalized with COVID-19. <i>Scientific Reports</i> , 2021, 11, 20238.	1.6	10
93	Clinical Text Classification with Rule-based Features and Knowledge-guided Convolutional Neural Networks. , 2018, , .		9
94	Optimizing the evaluation of gene-targeted panels for tumor mutational burden estimation. <i>Scientific Reports</i> , 2021, 11, 21072.	1.6	9
95	Considerations for Improving the Portability of Electronic Health Record-Based Phenotype Algorithms. <i>AMIA ... Annual Symposium proceedings</i> , 2019, 2019, 755-764.	0.2	9
96	Advances in Machine Learning Approaches to Heart Failure with Preserved Ejection Fraction. <i>Heart Failure Clinics</i> , 2022, 18, 287-300.	1.0	9
97	Hyperchloremia in critically ill patients: association with outcomes and prediction using electronic health record data. <i>BMC Medical Informatics and Decision Making</i> , 2020, 20, 302.	1.5	8
98	Unsupervised phenotyping of sepsis using nonnegative matrix factorization of temporal trends from a multivariate panel of physiological measurements. <i>BMC Medical Informatics and Decision Making</i> , 2021, 21, 95.	1.5	8
99	Contralateral Breast Cancer Event Detection Using Nature Language Processing. <i>AMIA ... Annual Symposium proceedings</i> , 2017, 2017, 1885-1892.	0.2	8
100	Improving the Accuracy of Scores to Predict Gastrostomy after Intracerebral Hemorrhage with Machine Learning. <i>Journal of Stroke and Cerebrovascular Diseases</i> , 2018, 27, 3570-3574.	0.7	7
101	Conjugated equine estrogen and medroxyprogesterone acetate are associated with decreased risk of breast cancer relative to bioidentical hormone therapy and controls. <i>PLoS ONE</i> , 2018, 13, e0197064.	1.1	7
102	Artificial Intelligence and Machine Learning for Safe Medicines. <i>Drug Safety</i> , 2022, 45, 403-405.	1.4	7
103	Machine Learning in Causal Inference: Application in Pharmacovigilance. <i>Drug Safety</i> , 2022, 45, 459-476.	1.4	7
104	International comparisons of laboratory values from the 4CE collaborative to predict COVID-19 mortality. <i>Npj Digital Medicine</i> , 2022, 5, .	5.7	7
105	Suboptimal Clinical Documentation in Young Children with Severe Obesity at Tertiary Care Centers. <i>International Journal of Pediatrics (United Kingdom)</i> , 2016, 2016, 1-9.	0.2	6
106	Evaluation of structured data from electronic health records to identify clinical classification criteria attributes for systemic lupus erythematosus. <i>Lupus Science and Medicine</i> , 2021, 8, e000488.	1.1	6
107	Integrating and Evaluating the Data Quality and Utility of Smart Pump Information in Detecting Medication Administration Errors: Evaluation Study. <i>JMIR Medical Informatics</i> , 2020, 8, e19774.	1.3	6
108	Comparison between machine learning methods for mortality prediction for sepsis patients with different social determinants. <i>BMC Medical Informatics and Decision Making</i> , 2022, 22, .	1.5	6

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109	Genetic-Based Hypertension Subtype Identification Using Informative SNPs. <i>Genes</i> , 2020, 11, 1265.	1.0	5
110	Ductal Carcinoma In Situ of Breast: From Molecular Etiology to Therapeutic Management. <i>Endocrinology</i> , 2022, 163, .	1.4	5
111	Efficient Queries of Stand-off Annotations for Natural Language Processing on Electronic Medical Records. <i>Biomedical Informatics Insights</i> , 2016, 8, BII.S38916.	4.6	4
112	Efficient Genomic Interval Queries Using Augmented Range Trees. <i>Scientific Reports</i> , 2019, 9, 5059.	1.6	4
113	Phenotyping Multiple Organ Dysfunction Syndrome Using Temporal Trends in Critically Ill Children. , 2019, 2019, 968-972.		4
114	Mixture-based Multiple Imputation Model for Clinical Data with a Temporal Dimension. , 2019, , .		4
115	Semi-Supervised Learning to Identify UMLS Semantic Relations. <i>AMIA Summits on Translational Science Proceedings</i> , 2014, 2014, 67-75.	0.4	4
116	Evaluating the Portability of an NLP System for Processing Echocardiograms: A Retrospective, Multi-site Observational Study. <i>AMIA ... Annual Symposium proceedings</i> , 2019, 2019, 190-199.	0.2	4
117	Changes in laboratory value improvement and mortality rates over the course of the pandemic: an international retrospective cohort study of hospitalised patients infected with SARS-CoV-2. <i>BMJ Open</i> , 2022, 12, e057725.	0.8	4
118	Design and validation of a FHIR-based EHR-driven phenotyping toolbox. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 0, , .	2.2	4
119	Portable Phenotyping System: A Portable Machine-Learning Approach to i2b2 Obesity Challenge. , 2018, , .		3
120	Supervised subgraph augmented non-negative matrix factorization for interpretable manufacturing time series data analytics. <i>IJSE Transactions</i> , 2020, 52, 120-131.	1.6	3
121	National Trends in Disease Activity for COVID-19 Among Children in the US. <i>Frontiers in Pediatrics</i> , 2021, 9, 700656.	0.9	3
122	Early Prediction of Mortality in Critical Care Setting in Sepsis Patients Using Structured Features and Unstructured Clinical Notes. , 2021, , .		3
123	Using Machine Learning to Integrate Socio-Behavioral Factors in Predicting Cardiovascular-Related Mortality Risk. <i>Studies in Health Technology and Informatics</i> , 2019, 264, 433-437.	0.2	3
124	Characterizing Design Patterns of EHR-Driven Phenotype Extraction Algorithms. , 2018, , .		2
125	Implementing a Portable Clinical NLP System with a Common Data Model -- a Lisp Perspective. , 2018, 2018, 461-466.		2
126	Are My EHRs Private Enough? Event-Level Privacy Protection. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2019, 16, 103-112.	1.9	2

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127	Using Machine Learning to Predict Hyperchloremia in Critically Ill Patients. , 2019, 2019, 1703-1707.		2
128	Predictive Modeling of the Risk of Acute Kidney Injury in Critical Care: A Systematic Investigation of The Class Imbalance Problem. AMIA Summits on Translational Science Proceedings, 2019, 2019, 809-818.	0.4	2
129	A Pre-trained Clinical Language Model for Acute Kidney Injury. , 2020, , .		2
130	A Predictive Model for Parkinsonâ€™s Disease Reveals Candidate Gene Sets for Progression Subtype. , 2020, , .		1
131	Rich Text Formatted EHR Narratives: A Hidden and Ignored Trove. Studies in Health Technology and Informatics, 2019, 264, 472-476.	0.2	1
132	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
133	Using an Unsupervised Clustering Model to Detect the Early Spread of SARS-CoV-2 Worldwide. Genes, 2022, 13, 648.	1.0	1
134	Unsupervised Learning to Subphenotype Delirium Patients from Electronic Health Records. , 2021, , .		1
135	Development and validation of <i>MicrobEx</i>: an open-source package for microbiology culture concept extraction. JAMIA Open, 2022, 5, .	1.0	1
136	Optimal motion generation of a flexible macro-micro manipulator using genetic algorithm based upon object space centered spherical coordinate. , 2007, , .		0
137	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
138	SNPs Filtered by Allele Frequency Improve the Prediction of Hypertension Subtypes. , 2021, , .		0
139	Unsupervised clustering analysis of SARS-Cov-2 population structure reveals six major subtypes at early stage across the world. , 2021, , .		0
140	COVID Vaccine and Cardiovascular Risks: A Natural Language Analysis of Vaccine Adverse Event Reports. , 2021, , .		0