Hong Yu

List of Publications by Year
in descending order

71 papers	1,757 citations	394421 19 h-index	395702 33 g-index
84 all docs	84 docs citations	84 times ranked	2237 citing authors

#	Article	IF	Citations
1	Bidirectional RNN for Medical Event Detection in Electronic Health Records. , 2016, 2016, 473-482.		198
2	Structured prediction models for RNN based sequence labeling in clinical text. , 2016, 2016, 856-865.		129
3	Overview of the First Natural Language Processing Challenge for Extracting Medication, Indication, and Adverse Drug Events from Electronic Health Record Notes (MADE 1.0). Drug Safety, 2019, 42, 99-111.	3.2	105
4	Fine-Tuning Bidirectional Encoder Representations From Transformers (BERT)â€"Based Models on Large-Scale Electronic Health Record Notes: An Empirical Study. JMIR Medical Informatics, 2019, 7, e14830.	2.6	103
5	Development, implementation, and a cognitive evaluation of a definitional question answering system for physicians. Journal of Biomedical Informatics, 2007, 40, 236-251.	4.3	87
6	ICD Coding from Clinical Text Using Multi-Filter Residual Convolutional Neural Network. Proceedings of the AAAI Conference on Artificial Intelligence, 2020, 34, 8180-8187.	4.9	76
7	Efficacy and safety of direct oral anticoagulants approved for cardiovascular indications: Systematic review and meta-analysis. PLoS ONE, 2018, 13, e0197583.	2.5	63
8	Biomedical negation scope detection with conditional random fields. Journal of the American Medical Informatics Association: JAMIA, 2010, 17, 696-701.	4.4	58
9	Extraction of Information Related to Adverse Drug Events from Electronic Health Record Notes: Design of an End-to-End Model Based on Deep Learning. JMIR Medical Informatics, 2018, 6, e12159.	2.6	53
10	Clinical Relation Extraction Toward Drug Safety Surveillance Using Electronic Health Record Narratives: Classical Learning Versus Deep Learning. JMIR Public Health and Surveillance, 2018, 4, e29.	2.6	53
11	Towards Drug Safety Surveillance and Pharmacovigilance: Current Progress in Detecting Medication and Adverse Drug Events from Electronic Health Records. Drug Safety, 2019, 42, 95-97.	3.2	46
12	Accessing bioscience images from abstract sentences. Bioinformatics, 2006, 22, e547-e556.	4.1	38
13	Detection of Bleeding Events in Electronic Health Record Notes Using Convolutional Neural Network Models Enhanced With Recurrent Neural Network Autoencoders: Deep Learning Approach. JMIR Medical Informatics, 2019, 7, e10788.	2.6	38
14	A Natural Language Processing System That Links Medical Terms in Electronic Health Record Notes to Lay Definitions: System Development Using Physician Reviews. Journal of Medical Internet Research, 2018, 20, e26.	4.3	36
15	Using MEDLINE as a knowledge source for disambiguating abbreviations and acronyms in full-text biomedical journal articles. Journal of Biomedical Informatics, 2007, 40, 150-159.	4.3	32
16	Are figure legends sufficient? Evaluating the contribution of associated text to biomedical figure comprehension. Journal of Biomedical Discovery and Collaboration, 2009, 4, 1.	2.0	31
17	Building an Evaluation Scale using Item Response Theory. , 2016, 2016, 648-657.		29
18	Automatically Recognizing Medication and Adverse Event Information From Food and Drug Administrationâ€™s Adverse Event Reporting System Narratives. JMIR Medical Informatics, 2014, 2, e10.	2.6	28

#	Article	IF	Citations
19	Neural Semantic Encoders. , 2017, , .		27
20	Automatic extraction of quantitative data from ClinicalTrials.gov to conduct meta-analyses. Journal of Clinical Epidemiology, 2019, 105, 92-100.	5.0	26
21	Detecting Hypoglycemia Incidents Reported in Patientsâ€™ Secure Messages: Using Cost-Sensitive Learning and Oversampling to Reduce Data Imbalance. Journal of Medical Internet Research, 2019, 21, e11990.	4.3	26
22	Readability Formulas and User Perceptions of Electronic Health Records Difficulty: A Corpus Study. Journal of Medical Internet Research, 2017, 19, e59.	4.3	24
23	Improving patients' electronic health record comprehension with NoteAid. Studies in Health Technology and Informatics, 2013, 192, 714-8.	0.3	22
24	An investigation of single-domain and multidomain medication and adverse drug event relation extraction from electronic health record notes using advanced deep learning models. Journal of the American Medical Informatics Association: JAMIA, 2019, 26, 646-654.	4.4	21
25	Learning to detect and understand drug discontinuation events from clinical narratives. Journal of the American Medical Informatics Association: JAMIA, 2019, 26, 943-951.	4.4	20
26	Figure-Associated Text Summarization and Evaluation. PLoS ONE, 2015, 10, e0115671.	2.5	19
27	Automatic Figure Ranking and User Interfacing for Intelligent Figure Search. PLoS ONE, 2010, 5, e12983.	2.5	19
28	Mining and Ranking Biomedical Synonym Candidates from Wikipedia. , 2015, , .		19
29	Assessing the Readability of Medical Documents: A Ranking Approach. JMIR Medical Informatics, 2018, 6, e17.	2.6	19
30	MetaMT, a Meta Learning Method Leveraging Multiple Domain Data for Low Resource Machine Translation. Proceedings of the AAAI Conference on Artificial Intelligence, 2020, 34, 8245-8252.	4.9	18
31	Automatic Detection of Hypoglycemic Events From the Electronic Health Record Notes of Diabetes Patients: Empirical Study. JMIR Medical Informatics, 2019, 7, e14340.	2.6	17
32	Improving Electronic Health Record Note Comprehension With NoteAid: Randomized Trial of Electronic Health Record Note Comprehension Interventions With Crowdsourced Workers. Journal of Medical Internet Research, 2019, 21, e10793.	4.3	16
33	Learning Latent Space Representations to Predict Patient Outcomes: Model Development and Validation. Journal of Medical Internet Research, 2020, 22, e16374.	4.3	16
34	ComprehENotes, an Instrument to Assess Patient Reading Comprehension of Electronic Health Record Notes: Development and Validation. Journal of Medical Internet Research, 2018, 20, e139.	4.3	16
35	Towards answering biological questions with experimental evidence: automatically identifying text that summarize image content in full-text articles. AMIA ... Annual Symposium proceedings, 2006, , 834-8.	0.2	16
36	Natural Language Processing, Electronic Health Records, and Clinical Research. Computers in Health Care, 2012, , 293-310.	0.3	15

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37	Unsupervised ensemble ranking of terms in electronic health record notes based on their importance to patients. Journal of Biomedical Informatics, 2017, 68, 121-131.	4.3	15
38	Ranking Medical Terms to Support Expansion of Lay Language Resources for Patient Comprehension of Electronic Health Record Notes: Adapted Distant Supervision Approach. JMIR Medical Informatics, 2017, 5, e42.	2.6	15
39	Learning Latent Parameters without Human Response Patterns: Item Response Theory with Artificial Crowds. , 2019, 2019, 4240-4250.		14
40	Relation Classification for Bleeding Events From Electronic Health Records Using Deep Learning Systems: An Empirical Study. JMIR Medical Informatics, 2021, 9, e27527.	2.6	11
41	Finding Important Terms for Patients in Their Electronic Health Records: A Learning-to-Rank Approach Using Expert Annotations. JMIR Medical Informatics, 2016, 4, e40.	2.6	10
42	Advancing Clinical Research Through Natural Language Processing on Electronic Health Records: Traditional Machine Learning Meets Deep Learning. Computers in Health Care, 2019, , 357-378.	0.3	9
43	Understanding Deep Learning Performance through an Examination of Test Set Difficulty: A Psychometric Case Study. , 2018, 2018, 4711-4716.		8
44	DeTEXT: A Database for Evaluating Text Extraction from Biomedical Literature Figures. PLoS ONE, 2015, 10, e0126200.	2.5	7
45	Learning to Rank Figures within a Biomedical Article. PLoS ONE, 2014, 9, e61567.	2.5	7
46	Dynamic Data Selection for Curriculum Learning via Ability Estimation. , 2020, 2020, 545-555.		7
47	Calibrating Structured Output Predictors for Natural Language Processing. , 2020, 2020, 2078-2092.		7
48	Recent Trends In Oral Anticoagulant Use And Post-Discharge Complications Among Atrial Fibrillation Patients With Acute Myocardial Infarction. Journal of Atrial Fibrillation, 2018, 10, 1749.	0.5	6
49	Naranjo Question Answering using End-to-End Multi-task Learning Model. , 2019, 2019, 2547-2555.		6
50	Prevalence of Frailty and Associations with Oral Anticoagulant Prescribing in Atrial Fibrillation. Journal of General Internal Medicine, 2021, , 1.	2.6	6
51	Computational Approaches for Predicting Biomedical Research Collaborations. PLoS ONE, 2014, 9, e111795.	2.5	6
52	Detecting Opioid-Related Aberrant Behavior using Natural Language Processing. AMIA ... Annual Symposium proceedings, 2017, 2017, 1179-1185.	0.2	6
53	A cognitive evaluation of four online search engines for answering definitional questions posed by physicians. Pacific Symposium on Biocomputing Pacific Symposium on Biocomputing, 2007, , 328-39.	0.7	6
54	ICDAR2017 Robust Reading Challenge on Text Extraction from Biomedical Literature Figures (DeTEXT). , 2017, , .		5

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55	Risk Factors Associated With Nonfatal Opioid Overdose Leading to Intensive Care Unit Admission: A Cross-sectional Study. JMIR Medical Informatics, 2021, 9, e32851.	2.6	5
56	Key Concept Identification for Medical Information Retrieval. , 2015, , .		5
57	A robust data-driven approach for gene ontology annotation. Database: the Journal of Biological Databases and Curation, 2014, 2014, bau113-bau113.	3.0	4
58	Inadequate diversity of information resources searched in US-affiliated systematic reviews and meta-analyses: 2005â€“2016. Journal of Clinical Epidemiology, 2018, 102, 50-62.	5.0	4
59	Automatically Detecting Acute Myocardial Infarction Events from EHR Text: A Preliminary Study. AMIA ... Annual Symposium proceedings, 2014, 2014, 1286-93.	0.2	4
60	Using data science to improve outcomes for persons with opioid use disorder. Substance Abuse, 2022, 43, 956-963.	2.3	4
61	Evaluating the Effectiveness of NoteAid in a Community Hospital Setting: Randomized Trial of Electronic Health Record Note Comprehension Interventions With Patients. Journal of Medical Internet Research, 2021, 23, e26354.	4.3	3
62	Generating Medical Assessments Using a Neural Network Model: Algorithm Development and Validation. JMIR Medical Informatics, 2020, 8, e14971.	2.6	3
63	BENTO: A Visual Platform for Building Clinical NLP Pipelines Based on CodaLab. , 2020, 2020, 95-100.		2
64	Identifying Key Concepts from EHR Notes Using Domain Adaptation. , 2015, , .		2
65	Methods for Linking EHR Notes to Education Materials. AMIA Summits on Translational Science Proceedings, 2015, 2015, 209-15.	0.4	2
66	Bleeding Entity Recognition in Electronic Health Records: A Comprehensive Analysis of End-to-End Systems. AMIA ... Annual Symposium proceedings, 2020, 2020, 860-869.	0.2	2
67	Inferring ADR causality by predicting the Naranjo Score from Clinical Notes. AMIA ... Annual Symposium proceedings, 2020, 2020, 1041-1049.	0.2	2
68	QuikLitE, a Framework for Quick Literacy Evaluation in Medicine: Development and Validation. Journal of Medical Internet Research, 2019, 21, e12525.	4.3	1
69	Generating Accurate Electronic Health Assessment from Medical Graph. , 2020, 2020, 3764-3773.		1
70	Clinical Judgement Study using Question Answering from Electronic Health Records. Proceedings of Machine Learning Research, 2019, 106, 216-229.	0.3	0
71	MIMIC-SBDH: A Dataset for Social and Behavioral Determinants of Health.. Proceedings of Machine Learning Research, 2021, 149, 391-413.	0.3	0