

# Kirk Roberts

## List of Publications by Year in descending order

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Version: 2024-02-01

84  
papers

1,932  
citations

361045

20  
h-index

315357

38  
g-index

88  
all docs

88  
docs citations

88  
times ranked

2130  
citing authors

#	ARTICLE	IF	CITATIONS
1	Deep learning in clinical natural language processing: a methodical review. Journal of the American Medical Informatics Association: JAMIA, 2020, 27, 457-470.	2.2	251
2	Learning to Read Chest X-Rays: Recurrent Neural Cascade Model for Automated Image Annotation. , 2016, , .		197
3	Enhancing clinical concept extraction with contextual embeddings. Journal of the American Medical Informatics Association: JAMIA, 2019, 26, 1297-1304.	2.2	195
4	Automatic extraction of relations between medical concepts in clinical texts. Journal of the American Medical Informatics Association: JAMIA, 2011, 18, 594-600.	2.2	139
5	Deep representation learning of patient data from Electronic Health Records (EHR): A systematic review. Journal of Biomedical Informatics, 2021, 115, 103671.	2.5	86
6	TREC-COVID: rationale and structure of an information retrieval shared task for COVID-19. Journal of the American Medical Informatics Association: JAMIA, 2020, 27, 1431-1436.	2.2	75
7	State-of-the-art in biomedical literature retrieval for clinical cases: a survey of the TREC 2014 CDS track. Information Retrieval, 2016, 19, 113-148.	1.6	56
8	A frame semantic overview of NLP-based information extraction for cancer-related EHR notes. Journal of Biomedical Informatics, 2019, 100, 103301.	2.5	55
9	TREC-COVID. ACM SIGIR Forum, 2020, 54, 1-12.	0.4	53
10	A flexible framework for deriving assertions from electronic medical records. Journal of the American Medical Informatics Association: JAMIA, 2011, 18, 568-573.	2.2	51
11	A dataset of 200 structured product labels annotated for adverse drug reactions. Scientific Data, 2018, 5, 180001.	2.4	41
12	Interactive use of online health resources: a comparison of consumer and professional questions. Journal of the American Medical Informatics Association: JAMIA, 2016, 23, 802-811.	2.2	39
13	A flexible framework for recognizing events, temporal expressions, and temporal relations in clinical text. Journal of the American Medical Informatics Association: JAMIA, 2013, 20, 867-875.	2.2	37
14	A content-based dataset recommendation system for researchersâ€™ a case study on Gene Expression Omnibus (GEO) repository. Database: the Journal of Biological Databases and Curation, 2020, 2020, 1.	1.4	34
15	A hybrid approach to automatic de-identification of psychiatric notes. Journal of Biomedical Informatics, 2017, 75, S19-S27.	2.5	29
16	A content-based literature recommendation system for datasets to improve data reusability â€œ A case study on Gene Expression Omnibus (GEO) datasets. Journal of Biomedical Informatics, 2020, 104, 103399.	2.5	28
17	Distributed learning from multiple EHR databases: Contextual embedding models for medical events. Journal of Biomedical Informatics, 2019, 92, 103138.	2.5	27
18	Automatic classification of scanned electronic health record documents. International Journal of Medical Informatics, 2020, 144, 104302.	1.6	27

#	ARTICLE	IF	CITATIONS
19	The role of fine-grained annotations in supervised recognition of risk factors for heart disease from EHRs. <i>Journal of Biomedical Informatics</i> , 2015, 58, S111-S119.	2.5	26
20	A publicly available benchmark for biomedical dataset retrieval: the reference standard for the 2016 bioCADDIE dataset retrieval challenge. <i>Database: the Journal of Biological Databases and Curation</i> , 2017, 2017, .	1.4	26
21	Telehealth Impact on Primary Care Related Ambulance Transports. <i>Prehospital Emergency Care</i> , 2019, 23, 712-717.	1.0	25
22	Information retrieval for biomedical datasets: the 2016 bioCADDIE dataset retrieval challenge. <i>Database: the Journal of Biological Databases and Curation</i> , 2017, 2017, .	1.4	22
23	An evaluation of two commercial deep learning-based information retrieval systems for COVID-19 literature. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2021, 28, 132-137.	2.2	21
24	Psychiatric symptom recognition without labeled data using distributional representations of phrases and on-line knowledge. <i>Journal of Biomedical Informatics</i> , 2017, 75, S129-S137.	2.5	20
25	Decomposing Consumer Health Questions. , 2014, , .		20
26	PI Prob: A risk prediction and clinical guidance system for evaluating patients with recurrent infections. <i>PLoS ONE</i> , 2021, 16, e0237285.	1.1	19
27	Biomedical informatics advancing the national health agenda: the AMIA 2015 year-in-review in clinical and consumer informatics. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2017, 24, e185-e190.	2.2	18
28	Understanding spatial language in radiology: Representation framework, annotation, and spatial relation extraction from chest X-ray reports using deep learning. <i>Journal of Biomedical Informatics</i> , 2020, 108, 103473.	2.5	18
29	Early Usability Assessment of a Conversational Agent for HPV Vaccination. <i>Studies in Health Technology and Informatics</i> , 2019, 257, 17-23.	0.2	16
30	A machine learning approach for identifying anatomical locations of actionable findings in radiology reports. <i>AMIA ... Annual Symposium proceedings</i> , 2012, 2012, 779-88.	0.2	14
31	Social Media as a Research Tool (SMaaRT) for Risky Behavior Analytics: Methodological Review. <i>JMIR Public Health and Surveillance</i> , 2020, 6, e21660.	1.2	13
32	Automatically classifying question types for consumer health questions. <i>AMIA ... Annual Symposium proceedings</i> , 2014, 2014, 1018-27.	0.2	13
33	Deep learning-based NLP data pipeline for EHR-scanned document information extraction. <i>JAMIA Open</i> , 2022, 5, .	1.0	13
34	Conceiving an application ontology to model patient human papillomavirus vaccine counseling for dialogue management. <i>BMC Bioinformatics</i> , 2019, 20, 706.	1.2	12
35	An Ensemble Method for Spelling Correction in Consumer Health Questions. <i>AMIA ... Annual Symposium proceedings</i> , 2015, 2015, 727-36.	0.2	12
36	Searching for scientific evidence in a pandemic: An overview of TREC-COVID. <i>Journal of Biomedical Informatics</i> , 2021, 121, 103865.	2.5	11

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37	Extracting actionable findings of appendicitis from radiology reports using natural language processing. AMIA Summits on Translational Science Proceedings, 2013, 2013, 221.	0.4	10
38	A Frame-Based NLP System for Cancer-Related Information Extraction. AMIA ... Annual Symposium proceedings, 2018, 2018, 1524-1533.	0.2	10
39	A protocolá€driven approach to automatically finding authoritative answers to consumer health questions in online resources. Journal of the Association for Information Science and Technology, 2017, 68, 1724-1736.	1.5	9
40	Representation Learning for Retinal Vasculature Embeddings. Lecture Notes in Computer Science, 2017, , 243-250.	1.0	9
41	A Paraphrase Generation System for EHR Question Answering. , 2019, , .		9
42	CLEF 2017: Multimodal Spatial Role Labeling (mSpRL) Task Overview. Lecture Notes in Computer Science, 2017, , 367-376.	1.0	9
43	Benefits of, Barriers to, and Needs for an Artificial Intelligenceá€Powered Medication Information Voice Chatbot for Older Adults: Interview Study With Geriatrics Experts. JMIR Aging, 2022, 5, e32169.	1.4	9
44	A supervised framework for resolving coreference in clinical records. Journal of the American Medical Informatics Association: JAMIA, 2012, 19, 875-882.	2.2	8
45	Towards an Ontology-based Medication Conversational Agent for PrEP and PEP. , 2020, 2020, 31-40.		8
46	Adapting Word Embeddings from Multiple Domains to Symptom Recognition from Psychiatric Notes. AMIA Summits on Translational Science Proceedings, 2018, 2017, 281-289.	0.4	7
47	Leveraging existing corpora for de-identification of psychiatric notes using domain adaptation. AMIA ... Annual Symposium proceedings, 2017, 2017, 1070-1079.	0.2	7
48	Relation Extraction from Clinical Narratives Using Pre-trained Language Models. AMIA ... Annual Symposium proceedings, 2019, 2019, 1236-1245.	0.2	7
49	Statistical and Similarity Methods for Classifying Emotion in Suicide Notes. Biomedical Informatics Insights, 2012, 5s1, BII.S8958.	4.6	6
50	A dataset of chest X-ray reports annotated with Spatial Role Labeling annotations. Data in Brief, 2020, 32, 106056.	0.5	6
51	Conversational ontology operator: patient-centric vaccine dialogue management engine for spoken conversational agents. BMC Medical Informatics and Decision Making, 2020, 20, 259.	1.5	6
52	Generalized and transferable patient language representation for phenotyping with limited data. Journal of Biomedical Informatics, 2021, 116, 103726.	2.5	5
53	Dramatic Increases in Telehealth-Related Tweets during the Early COVID-19 Pandemic: A Sentiment Analysis. Healthcare (Switzerland), 2021, 9, 634.	1.0	5
54	A Hybrid Deep Learning Approach for Spatial Trigger Extraction from Radiology Reports. , 2020, 2020, 50-55.		5

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55	Automatic Extraction and Post-coordination of Spatial Relations in Consumer Language. AMIA ... Annual Symposium proceedings, 2015, 2015, 1083-92.	0.2	5
56	Combining Open-domain and Biomedical Knowledge for Topic Recognition in Consumer Health Questions. AMIA ... Annual Symposium proceedings, 2016, 2016, 914-923.	0.2	5
57	Patient Representation Transfer Learning from Clinical Notes based on Hierarchical Attention Network. AMIA Summits on Translational Science Proceedings, 2020, 2020, 597-606.	0.4	5
58	Fine-grained spatial information extraction in radiology as two-turn question answering. International Journal of Medical Informatics, 2022, 158, 104628.	1.6	4
59	Annotating Logical Forms for EHR Questions. , 2016, 2016, 3772-3778.		4
60	Rad-SpatialNet: A Frame-based Resource for Fine-Grained Spatial Relations in Radiology Reports. , 2020, 2020, 2251-2260.		4
61	Closing the loop: automatically identifying abnormal imaging results in scanned documents. Journal of the American Medical Informatics Association: JAMIA, 2022, 29, 831-840.	2.2	4
62	Interweaving Domain Knowledge and Unsupervised Learning for Psychiatric Stressor Extraction from Clinical Notes. Lecture Notes in Computer Science, 2017, , 396-406.	1.0	3
63	Characterization of Behavioral Transitions Through Social Media Analysis: A Mixed-Methods Approach. Studies in Health Technology and Informatics, 2019, 264, 1228-1232.	0.2	3
64	A Semantic Parsing Method for Mapping Clinical Questions to Logical Forms. AMIA ... Annual Symposium proceedings, 2017, 2017, 1478-1487.	0.2	3
65	Patient-Provider Communication Training Models for Interactive Speech Devices. Lecture Notes in Computer Science, 2021, 12777, 250-268.	1.0	2
66	Structuring Operative Notes using Active Learning. , 2014, , .		2
67	A health consumer ontology of fast food information. , 2020, 2020, 1714-1719.		2
68	An informatics research platform to make public gene expression time-course datasets reusable for more scientific discoveries. Database: the Journal of Biological Databases and Curation, 2020, 2020, .	1.4	2
69	Resource Classification for Medical Questions. AMIA ... Annual Symposium proceedings, 2016, 2016, 1040-1049.	0.2	2
70	Mental Health Severity Detection from Psychological Forum Data using Domain-Specific Unlabelled Data. AMIA Summits on Translational Science Proceedings, 2020, 2020, 487-496.	0.4	2
71	DETECTING NEW AND EMERGING EVENTS IN STREAMING NEWS DOCUMENTS. International Journal of Semantic Computing, 2011, 05, 407-431.	0.4	1
72	Ontology of Consumer Health Vocabulary: providing a formal and interoperable semantic resource for linking lay language and medical terminology. , 2019, , .		1

#	ARTICLE	IF	CITATIONS
73	On the Quality of the TREC-COVID IR Test Collections. , 2021, , .		1
74	Extracting Adherence Information from Electronic Health Records. , 2020, , .		1
75	Extracting Concepts for Precision Oncology from the Biomedical Literature. AMIA Summits on Translational Science Proceedings, 2021, 2021, 276-285.	0.4	1
76	Detecting New and Emerging Events from Textual Sources. , 2011, , .		0
77	Locational relativity and domain constraints in spatial questions. , 2012, , .		0
78	Extraction of Lactation Frames from Drug Labels and LactMed. , 2019, , .		0
79	An Ontology-Powered Dialogue Engine For Patient Communication of Vaccines. CEUR Workshop Proceedings, 2019, 2427, 24-30.	2.3	0
80	RadLex Normalization in Radiology Reports. AMIA ... Annual Symposium proceedings, 2020, 2020, 338-347.	0.2	0
81	Patient Cohort Retrieval using Transformer Language Models. AMIA ... Annual Symposium proceedings, 2020, 2020, 1150-1159.	0.2	0
82	Leveraging Spatial Information in Radiology Reports for Ischemic Stroke Phenotyping. AMIA Summits on Translational Science Proceedings, 2021, 2021, 170-179.	0.4	0
83	Dental EHR-infused Persona Ontologies to Enrich Dental Dialogue Interaction of Agents. , 2021, 2021, 1818-1825.		0
84	Addressing the Search Challenges of Precision Medicine with Information Retrieval Systems and Physician Readers. Studies in Health Technology and Informatics, 2020, 270, 813-817.	0.2	0