# Kirk Roberts

List of Publications by Year
in descending order

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|---|---|---|---|
| 84 papers | 1,932 citations | 361045<br>20 h-index | 315357<br>38 g-index |
| 88 all docs | 88 docs citations | 88 times ranked | 2130 citing authors |

| # | Article | IF | Citations |
|---|---------|----|-----------| 
| 1 | Fine-grained spatial information extraction in radiology as two-turn question answering. International Journal of Medical Informatics, 2022, 158, 104628. | 1.6 | 4 |
| 2 | Benefits of, Barriers to, and Needs for an Artificial Intelligence–Powered Medication Information Voice Chatbot for Older Adults: Interview Study With Geriatrics Experts. JMIR Aging, 2022, 5, e32169. | 1.4 | 9 |
| 3 | 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 |
| 4 | Deep learning-based NLP data pipeline for EHR-scanned document information extraction. JAMIA Open, 2022, 5, . | 1.0 | 13 |
| 5 | An evaluation of two commercial deep learning-based information retrieval systems for COVID-19 literature. Journal of the American Medical Informatics Association: JAMIA, 2021, 28, 132-137. | 2.2 | 21 |
| 6 | Patient-Provider Communication Training Models for Interactive Speech Devices. Lecture Notes in Computer Science, 2021, 12777, 250-268. | 1.0 | 2 |
| 7 | PI Prob: A risk prediction and clinical guidance system for evaluating patients with recurrent infections. PLoS ONE, 2021, 16, e0237285. | 1.1 | 19 |
| 8 | Deep representation learning of patient data from Electronic Health Records (EHR): A systematic review. Journal of Biomedical Informatics, 2021, 115, 103671. | 2.5 | 86 |
| 9 | Generalized and transferable patient language representation for phenotyping with limited data. Journal of Biomedical Informatics, 2021, 116, 103726. | 2.5 | 5 |
| 10 | Dramatic Increases in Telehealth-Related Tweets during the Early COVID-19 Pandemic: A Sentiment Analysis. Healthcare (Switzerland), 2021, 9, 634. | 1.0 | 5 |
| 11 | On the Quality of the TREC-COVID IR Test Collections. , 2021, , . | | 1 |
| 12 | Searching for scientific evidence in a pandemic: An overview of TREC-COVID. Journal of Biomedical Informatics, 2021, 121, 103865. | 2.5 | 11 |
| 13 | Leveraging Spatial Information in Radiology Reports for Ischemic Stroke Phenotyping. AMIA Summits on Translational Science Proceedings, 2021, 2021, 170-179. | 0.4 | 0 |
| 14 | Extracting Concepts for Precision Oncology from the Biomedical Literature. AMIA Summits on Translational Science Proceedings, 2021, 2021, 276-285. | 0.4 | 1 |
| 15 | Dental EHR-infused Persona Ontologies to Enrich Dental Dialogue Interaction of Agents. , 2021, 2021, 1818-1825. | | 0 |
| 16 | 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 |
| 17 | A dataset of chest X-ray reports annotated with Spatial Role Labeling annotations. Data in Brief, 2020, 32, 106056. | 0.5 | 6 |
| 18 | A content-based dataset recommendation system for researchers—a case study on Gene Expression Omnibus (GEO) repository. Database: the Journal of Biological Databases and Curation, 2020, 2020, 1. | 1.4 | 34 |

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|---|---------|----|-----------|
| 19 | Automatic classification of scanned electronic health record documents. International Journal of Medical Informatics, 2020, 144, 104302. | 1.6 | 27 |
| 20 | 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 |
| 21 | 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 |
| 22 | Understanding spatial language in radiology: Representation framework, annotation, and spatial relation extraction from chest X-ray reports using deep learning. Journal of Biomedical Informatics, 2020, 108, 103473. | 2.5 | 18 |
| 23 | A content-based literature recommendation system for datasets to improve data reusability â€" A case study on Gene Expression Omnibus (GEO) datasets. Journal of Biomedical Informatics, 2020, 104, 103399. | 2.5 | 28 |
| 24 | TREC-COVID. ACM SIGIR Forum, 2020, 54, 1-12. | 0.4 | 53 |
| 25 | Social Media as a Research Tool (SMaaRT) for Risky Behavior Analytics: Methodological Review. JMIR Public Health and Surveillance, 2020, 6, e21660. | 1.2 | 13 |
| 26 | A health consumer ontology of fast food information. , 2020, 2020, 1714-1719. | | 2 |
| 27 | A Hybrid Deep Learning Approach for Spatial Trigger Extraction from Radiology Reports. , 2020, 2020, 50-55. | | 5 |
| 28 | 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 |
| 29 | Extracting Adherence Information from Electronic Health Records. , 2020, , . | | 1 |
| 30 | Towards an Ontology-based Medication Conversational Agent for PrEP and PEP. , 2020, 2020, 31-40. | | 8 |
| 31 | 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 |
| 32 | 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 |
| 33 | Rad-SpatialNet: A Frame-based Resource for Fine-Grained Spatial Relations in Radiology Reports. , 2020, 2020, 2251-2260. | | 4 |
| 34 | RadLex Normalization in Radiology Reports. AMIA ... Annual Symposium proceedings, 2020, 2020, 338-347. | 0.2 | 0 |
| 35 | Patient Cohort Retrieval using Transformer Language Models. AMIA ... Annual Symposium proceedings, 2020, 2020, 1150-1159. | 0.2 | 0 |
| 36 | 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 |

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| 37 | Enhancing clinical concept extraction with contextual embeddings. Journal of the American Medical Informatics Association: JAMIA, 2019, 26, 1297-1304. | 2.2 | 195 |
| 38 | A frame semantic overview of NLP-based information extraction for cancer-related EHR notes. Journal of Biomedical Informatics, 2019, 100, 103301. | 2.5 | 55 |
| 39 | Telehealth Impact on Primary Care Related Ambulance Transports. Prehospital Emergency Care, 2019, 23, 712-717. | 1.0 | 25 |
| 40 | Distributed learning from multiple EHR databases: Contextual embedding models for medical events. Journal of Biomedical Informatics, 2019, 92, 103138. | 2.5 | 27 |
| 41 | Ontology of Consumer Health Vocabulary: providing a formal and interoperable semantic resource for linking lay language and medical terminology. , 2019, , . | | 1 |
| 42 | Conceiving an application ontology to model patient human papillomavirus vaccine counseling for dialogue management. BMC Bioinformatics, 2019, 20, 706. | 1.2 | 12 |
| 43 | A Paraphrase Generation System for EHR Question Answering. , 2019, , . | | 9 |
| 44 | Extraction of Lactation Frames from Drug Labels and LactMed. , 2019, , . | | 0 |
| 45 | 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 |
| 46 | Early Usability Assessment of a Conversational Agent for HPV Vaccination. Studies in Health Technology and Informatics, 2019, 257, 17-23. | 0.2 | 16 |
| 47 | Relation Extraction from Clinical Narratives Using Pre-trained Language Models. AMIA ... Annual Symposium proceedings, 2019, 2019, 1236-1245. | 0.2 | 7 |
| 48 | An Ontology-Powered Dialogue Engine For Patient Communication of Vaccines. CEUR Workshop Proceedings, 2019, 2427, 24-30. | 2.3 | 0 |
| 49 | A dataset of 200 structured product labels annotated for adverse drug reactions. Scientific Data, 2018, 5, 180001. | 2.4 | 41 |
| 50 | 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 |
| 51 | A Frame-Based NLP System for Cancer-Related Information Extraction. AMIA ... Annual Symposium proceedings, 2018, 2018, 1524-1533. | 0.2 | 10 |
| 52 | Psychiatric symptom recognition without labeled data using distributional representations of phrases and on-line knowledge. Journal of Biomedical Informatics, 2017, 75, S129-S137. | 2.5 | 20 |
| 53 | A protocolâ€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 |
| 54 | Representation Learning for Retinal Vasculature Embeddings. Lecture Notes in Computer Science, 2017, , 243-250. | 1.0 | 9 |

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| 55 | A hybrid approach to automatic de-identification of psychiatric notes. Journal of Biomedical Informatics, 2017, 75, S19-S27. | 2.5 | 29 |
| 56 | Biomedical informatics advancing the national health agenda: the AMIA 2015 year-in-review in clinical and consumer informatics. Journal of the American Medical Informatics Association: JAMIA, 2017, 24, e185-e190. | 2.2 | 18 |
| 57 | A publicly available benchmark for biomedical dataset retrieval: the reference standard for the 2016 bioCADDIE dataset retrieval challenge. Database: the Journal of Biological Databases and Curation, 2017, 2017, . | 1.4 | 26 |
| 58 | Information retrieval for biomedical datasets: the 2016 bioCADDIE dataset retrieval challenge. Database: the Journal of Biological Databases and Curation, 2017, 2017, . | 1.4 | 22 |
| 59 | Interweaving Domain Knowledge and Unsupervised Learning for Psychiatric Stressor Extraction from Clinical Notes. Lecture Notes in Computer Science, 2017, , 396-406. | 1.0 | 3 |
| 60 | CLEF 2017: Multimodal Spatial Role Labeling (mSpRL) Task Overview. Lecture Notes in Computer Science, 2017, , 367-376. | 1.0 | 9 |
| 61 | Leveraging existing corpora for de-identification of psychiatric notes using domain adaptation. AMIA ... Annual Symposium proceedings, 2017, 2017, 1070-1079. | 0.2 | 7 |
| 62 | A Semantic Parsing Method for Mapping Clinical Questions to Logical Forms. AMIA ... Annual Symposium proceedings, 2017, 2017, 1478-1487. | 0.2 | 3 |
| 63 | Learning to Read Chest X-Rays: Recurrent Neural Cascade Model for Automated Image Annotation. , 2016, , . | | 197 |
| 64 | 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 |
| 65 | 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 |
| 66 | Combining Open-domain and Biomedical Knowledge for Topic Recognition in Consumer Health Questions. AMIA ... Annual Symposium proceedings, 2016, 2016, 914-923. | 0.2 | 5 |
| 67 | Resource Classification for Medical Questions. AMIA ... Annual Symposium proceedings, 2016, 2016, 1040-1049. | 0.2 | 2 |
| 68 | Annotating Logical Forms for EHR Questions. , 2016, 2016, 3772-3778. | | 4 |
| 69 | The role of fine-grained annotations in supervised recognition of risk factors for heart disease from EHRs. Journal of Biomedical Informatics, 2015, 58, S111-S119. | 2.5 | 26 |
| 70 | An Ensemble Method for Spelling Correction in Consumer Health Questions. AMIA ... Annual Symposium proceedings, 2015, 2015, 727-36. | 0.2 | 12 |
| 71 | Automatic Extraction and Post-coordination of Spatial Relations in Consumer Language. AMIA ... Annual Symposium proceedings, 2015, 2015, 1083-92. | 0.2 | 5 |
| 72 | Decomposing Consumer Health Questions. , 2014, , . | | 20 |

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|---|---------|-----|-----------|
| 73 | Structuring Operative Notes using Active Learning. , 2014, , . | | 2 |
| 74 | Automatically classifying question types for consumer health questions. AMIA ... Annual Symposium proceedings, 2014, 2014, 1018-27. | 0.2 | 13 |
| 75 | 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 |
| 76 | Extracting actionable findings of appendicitis from radiology reports using natural language processing. AMIA Summits on Translational Science Proceedings, 2013, 2013, 221. | 0.4 | 10 |
| 77 | Locational relativity and domain constraints in spatial questions. , 2012, , . | | 0 |
| 78 | A supervised framework for resolving coreference in clinical records. Journal of the American Medical Informatics Association: JAMIA, 2012, 19, 875-882. | 2.2 | 8 |
| 79 | Statistical and Similarity Methods for Classifying Emotion in Suicide Notes. Biomedical Informatics Insights, 2012, 5s1, BII.S8958. | 4.6 | 6 |
| 80 | A machine learning approach for identifying anatomical locations of actionable findings in radiology reports. AMIA ... Annual Symposium proceedings, 2012, 2012, 779-88. | 0.2 | 14 |
| 81 | Detecting New and Emerging Events from Textual Sources. , 2011, , . | | 0 |
| 82 | 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 |
| 83 | DETECTING NEW AND EMERGING EVENTS IN STREAMING NEWS DOCUMENTS. International Journal of Semantic Computing, 2011, 05, 407-431. | 0.4 | 1 |
| 84 | 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 |