Sunghwan Sohn

List of Publications by Year in descending order

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90 papers

4,667

172386 29 h-index 64 g-index

92 all docs 92 docs citations 92 times ranked 4878 citing authors

#	Article	IF	CITATIONS
1	Mayo clinical Text Analysis and Knowledge Extraction System (cTAKES): architecture, component evaluation and applications. Journal of the American Medical Informatics Association: JAMIA, 2010, 17, 507-513.	2.2	1,413
2	Clinical information extraction applications: A literature review. Journal of Biomedical Informatics, 2018, 77, 34-49.	2.5	502
3	A clinical text classification paradigm using weak supervision and deep representation. BMC Medical Informatics and Decision Making, 2019, 19, 1.	1.5	348
4	Deep learning and alternative learning strategies for retrospective real-world clinical data. Npj Digital Medicine, 2019, 2, 43.	5.7	145
5	Normalization and standardization of electronic health records for high-throughput phenotyping: the SHARPn consortium. Journal of the American Medical Informatics Association: JAMIA, 2013, 20, e341-e348.	2.2	100
6	Harmonizing Clinical Sequencing and Interpretation for the eMERGE III Network. American Journal of Human Genetics, 2019, 105, 588-605.	2.6	99
7	Abbreviation definition identification based on automatic precision estimates. BMC Bioinformatics, 2008, 9, 402.	1.2	92
8	Drug side effect extraction from clinical narratives of psychiatry and psychology patients. Journal of the American Medical Informatics Association: JAMIA, 2011, 18, i144-i149.	2.2	88
9	MedXN: an open source medication extraction and normalization tool for clinical text. Journal of the American Medical Informatics Association: JAMIA, 2014, 21, 858-865.	2.2	88
10	Clinical concept extraction: A methodology review. Journal of Biomedical Informatics, 2020, 109, 103526.	2.5	86
11	DEEPEN: A negation detection system for clinical text incorporating dependency relation into NegEx. Journal of Biomedical Informatics, 2015, 54, 213-219.	2.5	79
12	Natural language processing of clinical notes for identification of critical limb ischemia. International Journal of Medical Informatics, 2018, 111, 83-89.	1.6	77
13	An information extraction framework for cohort identification using electronic health records. AMIA Summits on Translational Science Proceedings, 2013, 2013, 149-53.	0.4	76
14	Mining peripheral arterial disease cases from narrative clinical notes using natural language processing. Journal of Vascular Surgery, 2017, 65, 1753-1761.	0.6	75
15	Desiderata for delivering NLP to accelerate healthcare Al advancement and a Mayo Clinic NLP-as-a-service implementation. Npj Digital Medicine, 2019, 2, 130.	5.7	70
16	Application of a Natural Language Processing Algorithm to Asthma Ascertainment. An Automated Chart Review. American Journal of Respiratory and Critical Care Medicine, 2017, 196, 430-437.	2.5	67
17	Automated chart review for asthma cohort identification using natural language processing: an exploratory study. Annals of Allergy, Asthma and Immunology, 2013, 111, 364-369.	0.5	63
18	Toward a Learning Health-care System – Knowledge Delivery at the Point of Care Empowered by Big Data and NLP. Biomedical Informatics Insights, 2016, 8s1, BII.S37977.	4.6	56

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19	Clinical documentation variations and NLP system portability: a case study in asthma birth cohorts across institutions. Journal of the American Medical Informatics Association: JAMIA, 2018, 25, 353-359.	2.2	52
20	Automated chart review utilizing natural language processing algorithm for asthma predictive index. BMC Pulmonary Medicine, 2018, 18, 34.	0.8	51
21	Use of Natural Language Processing Algorithms to Identify Common Data Elements in Operative Notes for Total Hip Arthroplasty. Journal of Bone and Joint Surgery - Series A, 2019, 101, 1931-1938.	1.4	50
22	Comprehensive temporal information detection from clinical text: medical events, time, and TLINK identification. Journal of the American Medical Informatics Association: JAMIA, 2013, 20, 836-842.	2.2	48
23	Mayo clinic smoking status classification system: extensions and improvements. AMIA Annual Symposium proceedings, 2009, 2009, 619-23.	0.2	45
24	A Robust e-Epidemiology Tool in Phenotyping Heart Failure with Differentiation for Preserved and Reduced Ejection Fraction: the Electronic Medical Records and Genomics (eMERGE) Network. Journal of Cardiovascular Translational Research, 2015, 8, 475-483.	1.1	44
25	Detection of clinically important colorectal surgical site infection using Bayesian network. Journal of Surgical Research, 2017, 209, 168-173.	0.8	42
26	Optimal Training Sets for Bayesian Prediction of MeSH(R) Assignment. Journal of the American Medical Informatics Association: JAMIA, 2008, 15, 546-553.	2.2	41
27	Natural Language Processing for Asthma Ascertainment in Different Practice Settings. Journal of Allergy and Clinical Immunology: in Practice, 2018, 6, 126-131.	2.0	40
28	Modeling asynchronous event sequences with RNNs. Journal of Biomedical Informatics, 2018, 83, 167-177.	2.5	39
29	Use of Natural Language Processing Tools to Identify and Classify Periprosthetic Femur Fractures. Journal of Arthroplasty, 2019, 34, 2216-2219.	1.5	38
30	Developing a scalable FHIR-based clinical data normalization pipeline for standardizing and integrating unstructured and structured electronic health record data. JAMIA Open, 2019, 2, 570-579.	1.0	35
31	Postoperative bleeding risk prediction for patients undergoing colorectal surgery. Surgery, 2018, 164, 1209-1216.	1.0	30
32	Automated Detection of Periprosthetic Joint Infections and Data Elements Using Natural Language Processing. Journal of Arthroplasty, 2021, 36, 688-692.	1.5	27
33	Natural language processing of radiology reports for identification of skeletal site-specific fractures. BMC Medical Informatics and Decision Making, 2019, 19, 73.	1.5	26
34	Coreference analysis in clinical notes: a multi-pass sieve with alternate anaphora resolution modules. Journal of the American Medical Informatics Association: JAMIA, 2012, 19, 867-874.	2.2	25
35	Use of Natural Language Processing Algorithms to Identify Common Data Elements in Operative Notes for Knee Arthroplasty. Journal of Arthroplasty, 2021, 36, 922-926.	1.5	25
36	Artificial intelligence-assisted clinical decision support for childhood asthma management: A randomized clinical trial. PLoS ONE, 2021, 16, e0255261.	1.1	25

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37	A Hybrid Approach to Sentiment Sentence Classification in Suicide Notes. Biomedical Informatics Insights, 2012, 5s1, BII.S8961.	4.6	23
38	Expert artificial intelligence-based natural language processing characterises childhood asthma. BMJ Open Respiratory Research, 2020, 7, e000524.	1.2	20
39	Dependency Parser-based Negation Detection in Clinical Narratives. AMIA Summits on Translational Science Proceedings, 2012, 2012, 1-8.	0.4	20
40	Ascertainment of asthma prognosis using natural language processing from electronic medical records. Journal of Allergy and Clinical Immunology, 2018, 141, 2292-2294.e3.	1.5	19
41	Automatic extraction and assessment of lifestyle exposures for Alzheimer's disease using natural language processing. International Journal of Medical Informatics, 2019, 130, 103943.	1.6	18
42	Ascertainment of Delirium Status Using Natural Language Processing From Electronic Health Records. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2022, 77, 524-530.	1.7	18
43	Arrhythmia Variant Associations and Reclassifications in the eMERGE-III Sequencing Study. Circulation, 2022, 145, 877-891.	1.6	18
44	Patient-level temporal aggregation for text-based asthma status ascertainment. Journal of the American Medical Informatics Association: JAMIA, 2014, 21, 876-884.	2.2	17
45	Need of informatics in designing interoperable clinical registries. International Journal of Medical Informatics, 2017, 108, 78-84.	1.6	17
46	Deep Learning Prediction of Mild Cognitive Impairment using Electronic Health Records., 2019, 2019, 799-806.		17
47	Identifying Abdominal Aortic Aneurysm Cases and Controls using Natural Language Processing of Radiology Reports. AMIA Summits on Translational Science Proceedings, 2013, 2013, 249-53.	0.4	17
48	Identifying peripheral arterial disease cases using natural language processing of clinical notes., 2016, 2016, 126-131.		16
49	Predicate Oriented Pattern Analysis for Biomedical Knowledge Discovery. Intelligent Information Management, 2016, 08, 66-85.	0.3	13
50	Family History as a Risk Factor for Carotid Artery Stenosis. Stroke, 2014, 45, 2252-2256.	1.0	12
51	An aberration detection-based approach for sentinel syndromic surveillance of COVID-19 and other novel influenza-like illnesses. Journal of Biomedical Informatics, 2021, 113, 103660.	2.5	12
52	Classification of medication status change in clinical narratives. AMIA Annual Symposium proceedings, 2010, 2010, 762-6.	0.2	11
53	Analysis of Cross-Institutional Medication Description Patterns in Clinical Narratives. Biomedical Informatics Insights, 2013, 6s1, BII.S11634.	4.6	10
54	Early temporal characteristics of elderly patient cognitive impairment in electronic health records. BMC Medical Informatics and Decision Making, 2019, 19, 149.	1.5	10

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55	Towards a semantic lexicon for clinical natural language processing. AMIA Annual Symposium proceedings, 2012, 2012, 568-76.	0.2	10
56	Integrating Structured and Unstructured EHR Data Using an FHIR-based Type System: A Case Study with Medication Data. AMIA Summits on Translational Science Proceedings, 2018, 2017, 74-83.	0.4	10
57	Identification of asthma control factor in clinical notes using a hybrid deep learning model. BMC Medical Informatics and Decision Making, 2021, 21, 272.	1.5	10
58	A hybrid model to identify fall occurrence from electronic health records. International Journal of Medical Informatics, 2022, 162, 104736.	1.6	10
59	Early Identification of Childhood Asthma: The Role of Informatics in an Era of Electronic Health Records. Frontiers in Pediatrics, 2019, 7, 113.	0.9	8
60	Detection of Surgical Site Infection Utilizing Automated Feature Generation in Clinical Notes. Journal of Healthcare Informatics Research, 2019, 3, 267-282.	5. 3	8
61	Assessing socioeconomic bias in machine learning algorithms in health care: a case study of the HOUSES index. Journal of the American Medical Informatics Association: JAMIA, 2022, 29, 1142-1151.	2.2	8
62	A frequency-filtering strategy of obtaining PHI-free sentences from clinical data repository. , 2015, , .		7
63	BmQGen: Biomedical query generator for knowledge discovery. , 2015, , .		7
64	Delirium occurrence and association with outcomes in hospitalized COVID-19 patients. International Psychogeriatrics, 2021, 33, 1105-1109.	0.6	7
65	Ensemble of Evolving Neural Networks in Classification. Neural Processing Letters, 2004, 19, 191-203.	2.0	6
66	Asthma and risk of glioma: a population-based case–control study. BMJ Open, 2019, 9, e025746.	0.8	6
67	Loci identified by a genomeâ€wide association study of carotid artery stenosis in the eMERGE network. Genetic Epidemiology, 2021, 45, 4-15.	0.6	6
68	Analysis of Clinical Variations in Asthma Care Documented in Electronic Health Records Between Staff and Resident Physicians. Studies in Health Technology and Informatics, 2017, 245, 1170-1174.	0.2	6
69	Standardizing Heterogeneous Annotation Corpora Using HL7 FHIR for Facilitating their Reuse and Integration in Clinical NLP. AMIA Annual Symposium proceedings, 2018, 2018, 574-583.	0.2	6
70	Artificial Intelligence Assesses Clinicians' Adherence to Asthma Guidelines Using Electronic Health Records. Journal of Allergy and Clinical Immunology: in Practice, 2022, 10, 1047-1056.e1.	2.0	6
71	Clinical Decision Support for Colonoscopy Surveillance Using Natural Language Processing., 2012,,.		5
72	Risk, Mechanisms and Implications of Asthma-Associated Infectious and Inflammatory Multimorbidities (AIMs) among Individuals With Asthma: a Systematic Review and a Case Study. Allergy, Asthma and Immunology Research, 2021, 13, 697.	1.1	4

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73	Facilitating post-surgical complication detection through sublanguage analysis. AMIA Summits on Translational Science Proceedings, 2014, 2014, 77-82.	0.4	4
74	A Text-Mining Framework for Supporting Systematic Reviews. , 2016, 1, 1-9.		4
75	The Implication of Latent Information Quality to the Reproducibility of Secondary Use of Electronic Health Records. Studies in Health Technology and Informatics, 2022, , .	0.2	4
76	Automated Chart Review for Asthma Ascertainment: An Innovative Approach for Asthma Care and Research in the Era of Electronic Medical Record. Journal of Allergy and Clinical Immunology, 2016, 137, AB196.	1.5	3
77	Surveillance of Peripheral Arterial Disease Cases Using Natural Language Processing of Clinical Notes. AMIA Summits on Translational Science Proceedings, 2017, 2017, 28-36.	0.4	3
78	Evaluating the Impact of Dictionary Updates on Automatic Annotations Based on Clinical NLP Systems. AMIA Summits on Translational Science Proceedings, 2019, 2019, 714-721.	0.4	3
79	Early Alert of Elderly Cognitive Impairment using Temporal Streaming Clustering., 2021, 2021, 905-912.		3
80	Analysis of medication and indication occurrences in clinical notes. AMIA Annual Symposium proceedings, 2014, 2014, 1046-55.	0.2	2
81	Populating Physician Biographical Pages Based on EMR Data. AMIA Summits on Translational Science Proceedings, 2017, 2017, 522-530.	0.4	2
82	Multi-Center Validation of Natural Language Processing Algorithms for Detection of Common Data Elements in Operative Notes for Total Hip Arthroplasty (Preprint). JMIR Medical Informatics, 0, , .	1.3	2
83	A scoping review of medical practice variation research within the informatics literature. International Journal of Medical Informatics, 2022, 165, 104833.	1.6	2
84	Assessment of Heterogeneity of Childhood Asthma Using Medical Informatics Approaches. Journal of Allergy and Clinical Immunology, 2017, 139, AB202.	1.5	1
85	Establishing an expert consensus for the operational definitions of asthma-associated infectious and inflammatory multimorbidities for computational algorithms through a modified Delphi technique. BMC Medical Informatics and Decision Making, 2021, 21, 310.	1.5	1
86	Drug Normalization for Cancer Therapeutic and Druggable Genome Target Discovery. AMIA Summits on Translational Science Proceedings, 2015, 2015, 72-6.	0.4	1
87	Risk of pneumonia in asthmatic children using inhaled corticosteroids: a nested case-control study in a birth cohort. BMJ Open, 2022, 12, e051926.	0.8	1
88	Prediction of Incident Dementia Using Patient Temporal Health Status. Studies in Health Technology and Informatics, 2022, , .	0.2	1
89	Systematic Analysis of Cross-Institutional Medication Description Patterns in Clinical Notes. , $2012, , .$		0
90	Deep Learning Identification of Asthma Inhaler Techniques in Clinical Notes. , 2020, 2020, .		0