Feichen Shen

List of Publications by Year
in descending order

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55 papers	2,003 citations	516561 16 h-index	289141 40 g-index
62 all docs	62 docs citations	62 times ranked	2696 citing authors

#	Article	IF	Citations
1	Clinical information extraction applications: A literature review. Journal of Biomedical Informatics, 2018, 77, 34-49.	2.5	502
2	A clinical text classification paradigm using weak supervision and deep representation. BMC Medical Informatics and Decision Making, 2019, 19, 1.	1.5	348
3	A comparison of word embeddings for the biomedical natural language processing. Journal of Biomedical Informatics, 2018, 87, 12-20.	2.5	259
4	Deep Phenotyping on Electronic Health Records Facilitates Genetic Diagnosis by Clinical Exomes. American Journal of Human Genetics, 2018, 103, 58-73.	2.6	99
5	Clinical concept extraction: A methodology review. Journal of Biomedical Informatics, 2020, 109, 103526.	2.5	86
6	MedSTS: a resource for clinical semantic textual similarity. Language Resources and Evaluation, 2020, 54, 57-72.	1.8	81
7	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
8	BioCreative/OHNLP Challenge 2018. , 2018, , .		34
9	Rare disease knowledge enrichment through a data-driven approach. BMC Medical Informatics and Decision Making, 2019, 19, 32.	1.5	30
10	The 2019 n2c2/OHNLP Track on Clinical Semantic Textual Similarity: Overview. JMIR Medical Informatics, 2020, 8, e23375.	1.3	30
11	Extracting chemicalâ€“protein relations using attention-based neural networks. Database: the Journal of Biological Databases and Curation, 2018, 2018, .	1.4	27
12	HPO2Vec+: Leveraging heterogeneous knowledge resources to enrich node embeddings for the Human Phenotype Ontology. Journal of Biomedical Informatics, 2019, 96, 103246.	2.5	26
13	Utilization of Electronic Medical Records and Biomedical Literature to Support the Diagnosis of Rare Diseases Using Data Fusion and Collaborative Filtering Approaches. JMIR Medical Informatics, 2018, 6, e11301.	1.3	26
14	Knowledge Discovery from Biomedical Ontologies in Cross Domains. PLoS ONE, 2016, 11, e0160005.	1.1	23
15	Detecting Pharmacovigilance Signals Combining Electronic Medical Records With Spontaneous Reports: A Case Study of Conventional Disease-Modifying Antirheumatic Drugs for Rheumatoid Arthritis. Frontiers in Pharmacology, 2018, 9, 875.	1.6	23
16	EXPLORING THE PHARMACOGENOMICS KNOWLEDGE BASE (PHARMGKB) FOR REPOSITIONING BREAST CANCER DRUGS BY LEVERAGING WEB ONTOLOGY LANGUAGE (OWL) AND CHEMINFORMATICS APPROACHES. , 2013, , .		21
17	Exploring the pharmacogenomics knowledge base (PharmGKB) for repositioning breast cancer drugs by leveraging Web ontology language (OWL) and cheminformatics approaches. Pacific Symposium on Biocomputing Pacific Symposium on Biocomputing, 2014, , 172-82.	0.7	20
18	Ensembles of natural language processing systems for portable phenotyping solutions. Journal of Biomedical Informatics, 2019, 100, 103318.	2.5	19

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19	Need of informatics in designing interoperable clinical registries. International Journal of Medical Informatics, 2017, 108, 78-84.	1.6	17
20	The 2019 n2c2/UMass Lowell shared task on clinical concept normalization. Journal of the American Medical Informatics Association: JAMIA, 2020, 27, 1529-e1.	2.2	17
21	Constructing co-occurrence network embeddings to assist association extraction for COVID-19 and other coronavirus infectious diseases. Journal of the American Medical Informatics Association: JAMIA, 2020, 27, 1259-1267.	2.2	17
22	Detecting Lifestyle Risk Factors for Chronic Kidney Disease With Comorbidities: Association Rule Mining Analysis of Web-Based Survey Data. Journal of Medical Internet Research, 2019, 21, e14204.	2.1	17
23	Implementation of a Cohort Retrieval System for Clinical Data Repositories Using the Observational Medical Outcomes Partnership Common Data Model: Proof-of-Concept System Validation. JMIR Medical Informatics, 2020, 8, e17376.	1.3	16
24	Dependency and AMR Embeddings for Drug-Drug Interaction Extraction from Biomedical Literature. , 2017, , .		15
25	Systematic identification of latent disease-gene associations from PubMed articles. PLoS ONE, 2018, 13, e0191568.	1.1	15
26	Recommendations for patient similarity classes: results of the AMIA 2019 workshop on defining patient similarity. Journal of the American Medical Informatics Association: JAMIA, 2020, 27, 1808-1812.	2.2	15
27	Family History Extraction From Synthetic Clinical Narratives Using Natural Language Processing: Overview and Evaluation of a Challenge Data Set and Solutions for the 2019 National NLP Clinical Challenges (n2c2)/Open Health Natural Language Processing (OHNLP) Competition. JMIR Medical Informatics, 2021, 9, e24008.	1.3	14
28	Phenotypic Analysis of Clinical Narratives Using Human Phenotype Ontology. Studies in Health Technology and Informatics, 2017, 245, 581-585.	0.2	14
29	Predicate Oriented Pattern Analysis for Biomedical Knowledge Discovery. Intelligent Information Management, 2016, 08, 66-85.	0.3	13
30	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
31	Systematic Analysis of Free-Text Family History in Electronic Health Record. AMIA Summits on Translational Science Proceedings, 2017, 2017, 104-113.	0.4	12
32	Leveraging Collaborative Filtering to Accelerate Rare Disease Diagnosis. AMIA ... Annual Symposium proceedings, 2017, 2017, 1554-1563.	0.2	11
33	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
34	An integrative computational approach to identify disease-specific networks from PubMed literature information. , 2013, , .		9
35	An Interactive Visualization Tool for HL7 FHIR Specification Browsing and Profiling. Journal of Healthcare Informatics Research, 2019, 3, 329-344.	5.3	9
36	Recommending Education Materials for Diabetic Questions Using Information Retrieval Approaches. Journal of Medical Internet Research, 2017, 19, e342.	2.1	9

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37	Detection of Surgical Site Infection Utilizing Automated Feature Generation in Clinical Notes. Journal of Healthcare Informatics Research, 2019, 3, 267-282.	5.3	8
38	BmQGen: Biomedical query generator for knowledge discovery. , 2015, , .		7
39	Using Human Phenotype Ontology for Phenotypic Analysis of Clinical Notes. Studies in Health Technology and Informatics, 2017, 245, 1285.	0.2	7
40	Constructing Node Embeddings for Human Phenotype Ontology to Assist Phenotypic Similarity Measurement. , 2018, , .		5
41	Discovering associations between problem list and practice setting. BMC Medical Informatics and Decision Making, 2019, 19, 69.	1.5	5
42	BioBroker: Knowledge Discovery Framework for Heterogeneous Biomedical Ontologies and Data. Journal of Intelligent Learning Systems and Applications, 2018, 10, 1-20.	0.4	5
43	A Text-Mining Framework for Supporting Systematic Reviews. , 2016, 1, 1-9.		4
44	On Mapping Textual Queries to a Common Data Model. , 2017, , .		3
45	Predicting Practice Setting Using Topic Modeling. , 2018, , .		3
46	Integrating word embedding neural networks with PubMed abstracts to extract keyword proximity of chronic diseases. , 2019, , .		3
47	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
48	Leveraging Association Rule Mining to Detect Pathophysiological Mechanisms of Chronic Kidney Disease Complicated by Metabolic Syndrome. , 2018, , .		2
49	Mining Hierarchies and Similarity Clusters from Value Set Repositories. AMIA ... Annual Symposium proceedings, 2017, 2017, 1372-1381.	0.2	2
50	Incorporating Knowledge-Driven Insights into a Collaborative Filtering Model to Facilitate the Differential Diagnosis of Rare Diseases. AMIA ... Annual Symposium proceedings, 2018, 2018, 1505-1514.	0.2	2
51	Subgrouping Rare Disease Patients Leveraging the Human Phenotype Ontology Embeddings. , 2020, , .		1
52	Enrich Rare Disease Phenotypic Characterizations via a Graph Convolutional Network Based Recommendation System. , 2020, , .		1
53	Data-driven Sublanguage Analysis for Cancer Genomics Knowledge Modeling: Applications in Mining Oncological Genetics Information from Patients' Genetic Reports. AMIA Summits on Translational Science Proceedings, 2020, 2020, 720-729.	0.4	1
54	Special Issue on Healthcare Knowledge Discovery and Management. Journal of Healthcare Informatics Research, 2019, 3, 157-158.	5.3	0

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55	A Deep Profiling and Visualization Framework to Audit Clinical Assessment Variation. , 2020, , .		0