

Hongfei Lin

List of Publications by Year in descending order

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Version: 2024-02-01

152
papers

2,777
citations

257450

24
h-index

214800

47
g-index

152
all docs

152
docs citations

152
times ranked

2319
citing authors

#	ARTICLE	IF	CITATIONS
1	An attention-based BiLSTM-CRF approach to document-level chemical named entity recognition. <i>Bioinformatics</i> , 2018, 34, 1381-1388.	4.1	277
2	BioWordVec, Improving biomedical word embeddings with subword information and MeSH. <i>Scientific Data</i> , 2019, 6, 52.	5.3	268
3	Drug drug interaction extraction from biomedical literature using syntax convolutional neural network. <i>Bioinformatics</i> , 2016, 32, 3444-3453.	4.1	175
4	Drug-drug interaction extraction via hierarchical RNNs on sequence and shortest dependency paths. <i>Bioinformatics</i> , 2018, 34, 828-835.	4.1	120
5	Deep Transfer Learning for Modality Classification of Medical Images. <i>Information (Switzerland)</i> , 2017, 8, 91.	2.9	111
6	Detection of Suicide Ideation in Social Media Forums Using Deep Learning. <i>Algorithms</i> , 2020, 13, 7.	2.1	98
7	A hybrid model based on neural networks for biomedical relation extraction. <i>Journal of Biomedical Informatics</i> , 2018, 81, 83-92.	4.3	97
8	Visual and Textual Sentiment Analysis of a Microblog Using Deep Convolutional Neural Networks. <i>Algorithms</i> , 2016, 9, 41.	2.1	89
9	Neural network-based approaches for biomedical relation classification: A review. <i>Journal of Biomedical Informatics</i> , 2019, 99, 103294.	4.3	71
10	An attention-based effective neural model for drug-drug interactions extraction. <i>BMC Bioinformatics</i> , 2017, 18, 445.	2.6	69
11	A Convolution-LSTM-Based Deep Neural Network for Cross-Domain MOOC Forum Post Classification. <i>Information (Switzerland)</i> , 2017, 8, 92.	2.9	64
12	SemaTyP: a knowledge graph based literature mining method for drug discovery. <i>BMC Bioinformatics</i> , 2018, 19, 193.	2.6	60
13	A neural network-based joint learning approach for biomedical entity and relation extraction from biomedical literature. <i>Journal of Biomedical Informatics</i> , 2020, 103, 103384.	4.3	56
14	Biomedical named entity recognition using BERT in the machine reading comprehension framework. <i>Journal of Biomedical Informatics</i> , 2021, 118, 103799.	4.3	55
15	GrEDeL: A Knowledge Graph Embedding Based Method for Drug Discovery From Biomedical Literatures. <i>IEEE Access</i> , 2019, 7, 8404-8415.	4.2	46
16	A graph kernel based on context vectors for extracting drug-drug interactions. <i>Journal of Biomedical Informatics</i> , 2016, 61, 34-43.	4.3	38
17	Disease named entity recognition from biomedical literature using a novel convolutional neural network. <i>BMC Medical Genomics</i> , 2017, 10, 73.	1.5	36
18	Finding a good query-related topic for boosting pseudo-relevance feedback. <i>Journal of the Association for Information Science and Technology</i> , 2011, 62, 748-760.	2.6	32

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19	An effective neural model extracting document level chemical-induced disease relations from biomedical literature. <i>Journal of Biomedical Informatics</i> , 2018, 83, 1-9.	4.3	30
20	Drug name recognition in biomedical texts: a machine-learning-based method. <i>Drug Discovery Today</i> , 2014, 19, 610-617.	6.4	29
21	A method for predicting protein complex in dynamic PPI networks. <i>BMC Bioinformatics</i> , 2016, 17, 229.	2.6	29
22	Convolutional neural networks for expert recommendation in community question answering. <i>Science China Information Sciences</i> , 2017, 60, 1.	4.3	28
23	Gene Function Prediction Based on the Gene Ontology Hierarchical Structure. <i>PLoS ONE</i> , 2014, 9, e107187.	2.5	27
24	Construction of dynamic probabilistic protein interaction networks for protein complex identification. <i>BMC Bioinformatics</i> , 2016, 17, 186.	2.6	26
25	Opinion Mining in e-Learning System. , 2007, , .		25
26	A multiple distributed representation method based on neural network for biomedical event extraction. <i>BMC Medical Informatics and Decision Making</i> , 2017, 17, 171.	3.0	24
27	CRHASum: extractive text summarization with contextualized-representation hierarchical-attention summarization network. <i>Neural Computing and Applications</i> , 2020, 32, 11491-11503.	5.6	21
28	KGHC: a knowledge graph for hepatocellular carcinoma. <i>BMC Medical Informatics and Decision Making</i> , 2020, 20, 135.	3.0	21
29	Extracting drug-drug interactions with hybrid bidirectional gated recurrent unit and graph convolutional network. <i>Journal of Biomedical Informatics</i> , 2019, 99, 103295.	4.3	20
30	Multi-Element Hierarchical Attention Capsule Network for Stock Prediction. <i>IEEE Access</i> , 2020, 8, 143114-143123.	4.2	20
31	Bidirectional long short-term memory with CRF for detecting biomedical event trigger in FastText semantic space. <i>BMC Bioinformatics</i> , 2018, 19, 507.	2.6	19
32	Topical community detection from mining user tagging behavior and interest. <i>Journal of the Association for Information Science and Technology</i> , 2013, 64, 321-333.	2.6	18
33	Improving biomedical information retrieval by linear combinations of different query expansion techniques. <i>BMC Bioinformatics</i> , 2016, 17, 238.	2.6	18
34	Biomedical event trigger detection by dependency-based word embedding. <i>BMC Medical Genomics</i> , 2016, 9, 45.	1.5	18
35	Adverse drug reaction detection via a multihop self-attention mechanism. <i>BMC Bioinformatics</i> , 2019, 20, 479.	2.6	18
36	A Multi-Dimension Question Answering Network for Sarcasm Detection. <i>IEEE Access</i> , 2020, 8, 135152-135161.	4.2	18

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37	HAN-ReGRU: hierarchical attention network with residual gated recurrent unit for emotion recognition in conversation. <i>Neural Computing and Applications</i> , 2021, 33, 2685-2703.	5.6	18
38	Assessment of learning to rank methods for query expansion. <i>Journal of the Association for Information Science and Technology</i> , 2016, 67, 1345-1357.	2.9	17
39	Low-Resource Cross-Domain Product Review Sentiment Classification Based on a CNN with an Auxiliary Large-Scale Corpus. <i>Algorithms</i> , 2017, 10, 81.	2.1	17
40	Detection and Extraction of Hot Topics on Chinese Microblogs. <i>Cognitive Computation</i> , 2016, 8, 577-586.	5.2	16
41	Attention guided capsule networks for chemical-protein interaction extraction. <i>Journal of Biomedical Informatics</i> , 2020, 103, 103392.	4.3	16
42	Query expansion based on folksonomy tag co-occurrence analysis. , 2009, , .		15
43	Document-Level Biomedical Relation Extraction Using Graph Convolutional Network and Multihead Attention: Algorithm Development and Validation. <i>JMIR Medical Informatics</i> , 2020, 8, e17638.	2.6	15
44	The impact of protein interaction networksâ€™ characteristics on computational complex detection methods. <i>Journal of Theoretical Biology</i> , 2018, 439, 141-151.	1.7	14
45	Chemicalâ€™protein interaction extraction via contextualized word representations and multihead attention. <i>Database: the Journal of Biological Databases and Curation</i> , 2019, 2019, .	3.0	14
46	Detection of protein complexes from multiple protein interaction networks using graph embedding. <i>Artificial Intelligence in Medicine</i> , 2019, 96, 107-115.	6.5	14
47	Interactive Self-Attentive Siamese Network for Biomedical Sentence Similarity. <i>IEEE Access</i> , 2020, 8, 84093-84104.	4.2	14
48	Filtering Gene Ontology semantic similarity for identifying protein complexes in large protein interaction networks. <i>Proteome Science</i> , 2012, 10, S18.	1.7	13
49	Chinese medical relation extraction based on multi-hop self-attention mechanism. <i>International Journal of Machine Learning and Cybernetics</i> , 2021, 12, 355-363.	3.6	13
50	DIGNiFI: Discovering causative genes for orphan diseases using protein-protein interaction networks. <i>BMC Systems Biology</i> , 2017, 11, 23.	3.0	12
51	Protein Complex Identification by Integrating Protein-Protein Interaction Evidence from Multiple Sources. <i>PLoS ONE</i> , 2013, 8, e83841.	2.5	11
52	A network embedding model for pathogenic genes prediction by multi-path random walking on heterogeneous network. <i>BMC Medical Genomics</i> , 2019, 12, 188.	1.5	11
53	A Graph Convolutional Networkâ€™Based Method for Chemical-Protein Interaction Extraction: Algorithm Development. <i>JMIR Medical Informatics</i> , 2020, 8, e17643.	2.6	11
54	Mining a multilingual association dictionary from <sc>W</sc>ikipedia for crossâ€™language information retrieval. <i>Journal of the Association for Information Science and Technology</i> , 2012, 63, 2474-2487.	2.6	10

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55	Judging a Book by Its Cover: The Effect of Facial Perception on Centrality in Social Networks. , 2019, , .		10
56	Exploiting sequence labeling framework to extract document-level relations from biomedical texts. BMC Bioinformatics, 2020, 21, 125.	2.6	10
57	MRC4BioER: Joint extraction of biomedical entities and relations in the machine reading comprehension framework. Journal of Biomedical Informatics, 2022, 125, 103956.	4.3	10
58	Supervised Learning Based Hypothesis Generation from Biomedical Literature. BioMed Research International, 2015, 2015, 1-12.	1.9	9
59	CIDExtractor: A chemical-induced disease relation extraction system for biomedical literature. , 2016, , .		9
60	A neural network approach to chemical and gene/protein entity recognition in patents. Journal of Cheminformatics, 2018, 10, 65.	6.1	9
61	A document level neural model integrated domain knowledge for chemical-induced disease relations. BMC Bioinformatics, 2018, 19, 328.	2.6	9
62	Detecting adverse drug reactions from social media based on multi-channel convolutional neural networks. Neural Computing and Applications, 2019, 31, 4799-4808.	5.6	9
63	Semi-supervised method for biomedical event extraction. Proteome Science, 2013, 11, S17.	1.7	8
64	An uncertain model-based approach for identifying dynamic protein complexes in uncertain protein-protein interaction networks. BMC Genomics, 2017, 18, 743.	2.8	8
65	Full-attention Based Drug Drug Interaction Extraction Exploiting User-generated Content. , 2018, , .		8
66	A multi-task learning based approach to biomedical entity relation extraction. , 2018, , .		8
67	Apparent Emotional Expression Explains the Effects of Head Posture on Perceived Trustworthiness and Dominance, but a Measure of Facial Width Does Not. Perception, 2020, 49, 422-438.	1.2	8
68	A two-stage feature selection method for text categorization. , 2010, , .		7
69	How we collaborate: characterizing, modeling and predicting scientific collaborations. Scientometrics, 2015, 104, 43-60.	3.0	7
70	Relation path feature embedding based convolutional neural network method for drug discovery. BMC Medical Informatics and Decision Making, 2019, 19, 59.	3.0	7
71	Multi-granularity bidirectional attention stream machine comprehension method for emotion cause extraction. Neural Computing and Applications, 2020, 32, 8401-8413.	5.6	7
72	Medical code prediction via capsule networks and ICD knowledge. BMC Medical Informatics and Decision Making, 2021, 21, 55.	3.0	7

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73	A network representation approach for COVID-19 drug recommendation. <i>Methods</i> , 2022, 198, 3-10.	3.8	7
74	An improved spectral clustering algorithm based on local neighbors in kernel space. <i>Computer Science and Information Systems</i> , 2011, 8, 1143-1157.	1.0	7
75	Taylor-ChOA: Taylor-Chimp Optimized Random Multimodal Deep Learning-Based Sentiment Classification Model for Course Recommendation. <i>Mathematics</i> , 2022, 10, 1354.	2.2	7
76	Biomedical event trigger detection by dependency-based word embedding. , 2015, , .		6
77	ML-CNN: A novel deep learning based disease named entity recognition architecture. , 2016, , .		6
78	Assembling Deep Neural Networks for Medical Compound Figure Detection. <i>Information (Switzerland)</i> , 2017, 8, 48.	2.9	6
79	The Identification of the Emotionality of Metaphorical Expressions Based on a Manually Annotated Chinese Corpus. <i>IEEE Access</i> , 2018, 6, 71241-71248.	4.2	6
80	Identifying protein complexes based on node embeddings obtained from protein-protein interaction networks. <i>BMC Bioinformatics</i> , 2018, 19, 332.	2.6	6
81	Combining the Attention Network and Semantic Representation for Chinese Verb Metaphor Identification. <i>IEEE Access</i> , 2019, 7, 137103-137110.	4.2	6
82	Biomedical document triage using a hierarchical attention-based capsule network. <i>BMC Bioinformatics</i> , 2020, 21, 380.	2.6	6
83	Emotion cause detection with enhanced-representation attention convolutional-context network. <i>Soft Computing</i> , 2021, 25, 1297-1307.	3.6	6
84	Adversarial neural network with sentiment-aware attention for detecting adverse drug reactions. <i>Journal of Biomedical Informatics</i> , 2021, 123, 103896.	4.3	6
85	Cross2Self-attentive Bidirectional Recurrent Neural Network with BERT for Biomedical Semantic Text Similarity. , 2020, , .		6
86	Computational personality: a survey. <i>Soft Computing</i> , 2022, 26, 9587-9605.	3.6	6
87	Learning to rank using smoothing methods for language modeling. <i>Journal of the Association for Information Science and Technology</i> , 2013, 64, 818-828.	2.6	5
88	A Knowledge Graph based Bidirectional Recurrent Neural Network Method for Literature-based Discovery. , 2018, , .		5
89	Multifeature Fusion Attention Network for Suicide Risk Assessment Based on Social Media: Algorithm Development and Validation. <i>JMIR Medical Informatics</i> , 2021, 9, e28227.	2.6	5
90	SVM-based Protein-Protein Interaction Extraction from Medline abstracts. , 2007, , .		4

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91	Ontology integration to identify protein complex in protein interaction networks. , 2010, , .		4
92	A Multiple Relevance Feedback Strategy with Positive and Negative Models. PLoS ONE, 2014, 9, e104707.	2.5	4
93	A hybrid protein-protein interaction triple extraction method for biomedical literature. , 2017, , .		4
94	Hierarchical Recurrent Convolutional Neural Network for Chemical-protein Relation Extraction from Biomedical Literature. , 2018, , .		4
95	Document triage for identifying protein-protein interactions affected by mutations: a neural network ensemble approach. Database: the Journal of Biological Databases and Curation, 2018, 2018, .	3.0	4
96	Phonetics and Ambiguity Comprehension Gated Attention Network for Humor Recognition. Complexity, 2020, 2020, 1-9.	1.6	4
97	Extracting biomedical relations via a multi-head attention based graph convolutional network. , 2020, , .		4
98	Gated iterative capsule network for adverse drug reaction detection from social media. , 2020, , .		4
99	Deep learning with language models improves named entity recognition for PharmaCoNER. BMC Bioinformatics, 2021, 22, 602.	2.6	4
100	An Integrated Biomedical Event Trigger Identification Approach With a Neural Network and Weighted Extreme Learning Machine. IEEE Access, 2019, 7, 83713-83720.	4.2	3
101	Incorporating representation learning and multihead attention to improve biomedical cross-sentence n-ary relation extraction. BMC Bioinformatics, 2020, 21, 312.	2.6	3
102	Hierarchical matching network for multi-turn response selection in retrieval-based chatbots. Soft Computing, 2021, 25, 9609-9624.	3.6	3
103	An attention network via pronunciation, lexicon and syntax for humor recognition. Applied Intelligence, 2022, 52, 2690-2702.	5.3	3
104	SC-Political ResNet: Hashtag Recommendation from Tweets Using Hybrid Optimization-Based Deep Residual Network. Information (Switzerland), 2021, 12, 389.	2.9	3
105	Biomedical event extraction based on distributed representation and deep learning. , 2016, , .		3
106	Opinion Mining in e-Learning System. , 2007, , .		3
107	Star-BiLSTM-LAN for Document-level Mutation-Disease Relation Extraction from Biomedical Literature. , 2020, , .		3
108	Extracting Protein-Protein Interactions Affected by Mutations via Auxiliary Task and Domain Pre-trained Model. , 2020, , .		3

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109	Spider Taylor-ChOA: Optimized Deep Learning Based Sentiment Classification for Review Rating Prediction. Applied Sciences (Switzerland), 2022, 12, 3211.	2.5	3
110	Co-Attentive Span Network with Multi-task learning for Biomedical Named Entity Recognition. , 2021, , .		3
111	Applying Feature Coupling Generalization for Protein-Protein Interaction Extraction. , 2009, , .		2
112	Identifying Protein Complexes from PPI Networks Using GO Semantic Similarity. , 2011, , .		2
113	Integrating multiple biomedical resources for protein complex prediction. , 2013, , .		2
114	End-to-end Answer Selection via Attention-Based Bi-LSTM Network. , 2018, , .		2
115	Protein-Protein Interaction Article Classification: A Knowledge-enriched Self-Attention Convolutional Neural Network Approach. , 2018, , .		2
116	HMNPPIDâ€”human malignant neoplasm proteinâ€”protein interaction database. Human Genomics, 2019, 13, 44.	2.9	2
117	Homographic pun location using multi-dimensional semantic relationships. Soft Computing, 2020, 24, 12163-12173.	3.6	2
118	Question-answering system based on concepts and statistics. Frontiers of Electrical and Electronic Engineering in China: Selected Publications From Chinese Universities, 2007, 2, 23-28.	0.6	1
119	Research on Focal Figures-Oriented Sentimental Question Answering. , 2008, , .		1
120	Study on question answering system for biomedical domain. , 2009, , .		1
121	A syntactic rule-based method for automatic pathway information extraction from biomedical literature. , 2012, , .		1
122	Classifying protein complexes from candidate subgraphs using fuzzy machine learning model. , 2012, , .		1
123	PPIExtractor: A protein-protein interaction Extractor for biomedical literature. , 2012, , .		1
124	Discover potential adverse drug reactions using the skip-gram model. , 2015, , .		1
125	Learning to rank for biomedical information retrieval. , 2015, , .		1
126	Deep neural network based protein-protein interaction extraction from biomedical literature. , 2015, , .		1

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127	Disease-specific protein complex detection in the human protein interaction network with a supervised learning method. , 2016, , .		1
128	Multipath2vec: Predicting Pathogenic Genes via Heterogeneous Network Embedding. , 2018, , .		1
129	Protein Complexes Detection Based on Global Network Representation Learning. , 2018, , .		1
130	A Semantic Network Encoder for Associated Fact Prediction. IEEE Transactions on Knowledge and Data Engineering, 2022, 34, 5114-5125.	5.7	1
131	A Graph-boosted Framework for Adverse Drug Event Detection on Twitter. , 2020, , .		1
132	SGAT: a Self-supervised Graph Attention Network for Biomedical Relation Extraction. , 2021, , .		1
133	How head posture affects perceived cooperativeness: A cross-cultural perspective. Acta Psychologica, 2022, 227, 103602.	1.5	1
134	Gene Name Automatic Recognition in Biomedical Literature. , 2006, , .		0
135	Automatic Opinion Analysis Based on SVM and Distance-Weighted Computing. , 2008, , .		0
136	Ranking SVM for multiple kernels output combination in protein-protein interaction extraction from biomedical literature. , 2010, , .		0
137	Hypergraph Partition with Harmonic Average Top-N and PCA for Topic Detection. , 2010, , .		0
138	Combining labeled and unlabeled data for biomedical event extraction. , 2012, , .		0
139	Transfer learning based on graph ranking. , 2012, , .		0
140	Learning to rank based gene summary extraction. , 2013, , .		0
141	Data integration and supervised learning based protein complex detection method. , 2014, , .		0
142	Deep graph search based disease related knowledge summarization from biomedical literature. , 2014, , .		0
143	Exploring the relation between the characteristics of protein interaction networks and the performances of computational complex detection methods. , 2014, , .		0
144	Disease Related Knowledge Summarization Based on Deep Graph Search. BioMed Research International, 2015, 2015, 1-11.	1.9	0

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145	DIGNIFI. , 2016, , .		0
146	PC-SENE: A node embedding based method for protein complex detection. , 2018, , .		0
147	A Weak Supervised Learning Method for Essential Protein Detection Based on STRING Database and Learning Representation. , 2018, , .		0
148	HMNPPID: A Database of Protein-protein Interactions Associated with Human Malignant Neoplasms. , 2018, , .		0
149	Residual Connected Enhanced Sequential Inference Model for Natural Language Inference. , 2019, , .		0
150	Disease Gene Prediction Based on Heterogeneous Probabilistic Hypergraph Ranking. , 2019, , .		0
151	Intelligent multi-document summarization for biomedical literature by word embeddings and graph-based ranking. Journal of Intelligent and Fuzzy Systems, 2019, 37, 4797-4802.	1.4	0
152	Improving Human Happiness Analysis Based on Transfer Learning: Algorithm Development and Validation. JMIR Medical Informatics, 2021, 9, e28292.	2.6	0