Richard Tzong-Han Tsai

List of Publications by Year
in descending order

86 papers	1,704 citations	430843 18 h-index	302107 39 g-index
91 all docs	91 docs citations	91 times ranked	1521 citing authors

#	Article	IF	Citations
1	Overview of BioCreative II gene mention recognition. Genome Biology, 2008, 9, S2.	8.8	300
2	The CHEMDNER corpus of chemicals and drugs and its annotation principles. Journal of Cheminformatics, 2015, 7, S2.	6.1	166
3	The gene normalization task in BioCreative III. BMC Bioinformatics, 2011, 12, S2.	2.6	101
4	NERBio: using selected word conjunctions, term normalization, and global patterns to improve biomedical named entity recognition. BMC Bioinformatics, 2006, 7, S11.	2.6	98
5	Building a Concept-Level Sentiment Dictionary Based on Commonsense Knowledge. IEEE Intelligent Systems, 2013, 28, 22-30.	4.0	93
6	Various criteria in the evaluation of biomedical named entity recognition. BMC Bioinformatics, 2006, 7, 92.	2.6	80
7	Introducing meta-services for biomedical information extraction. Genome Biology, 2008, 9, S6.	8.8	61
8	Reference metadata extraction using a hierarchical knowledge representation framework. Decision Support Systems, 2007, 43, 152-167.	5.9	60
9	New Challenges for Biological Text-Mining in the Next Decade. Journal of Computer Science and Technology, 2010, 25, 169-179.	1.5	47
10	Enhancing of chemical compound and drug name recognition using representative tag scheme and fine-grained tokenization. Journal of Cheminformatics, 2015, 7, S14.	6.1	47
11	BIOSMILE: A semantic role labeling system for biomedical verbs using a maximum-entropy model with automatically generated template features. BMC Bioinformatics, 2007, 8, 325.	2.6	45
12	TEMPTING system: A hybrid method of rule and machine learning for temporal relation extraction in patient discharge summaries. Journal of Biomedical Informatics, 2013, 46, S54-S62.	4.3	36
13	T-HOD: a literature-based candidate gene database for hypertension, obesity and diabetes. Database: the Journal of Biological Databases and Curation, 2013, 2013, bas061.	3.0	31
14	Using relation selection to improve value propagation in a ConceptNet-based sentiment dictionary. Knowledge-Based Systems, 2014, 69, 100-107.	7.1	31
15	A context-aware approach for progression tracking of medical concepts in electronic medical records. Journal of Biomedical Informatics, 2015, 58, S150-S157.	4.3	31
16	Biomedical named entity recognition and linking datasets: survey and our recent development. Briefings in Bioinformatics, 2020, 21, 2219-2238.	6.5	25
17	Exploiting likely-positive and unlabeled data to improve the identification of protein-protein interaction articles. BMC Bioinformatics, 2008, 9, S3.	2.6	24
18	Multistage Gene Normalization and SVM-Based Ranking for Protein Interactor Extraction in Full-Text Articles. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2010, 7, 412-420.	3.0	24

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19	A Reinforcement Learning Approach to Emotion-based Automatic Playlist Generation. , 2010, , .		21
20	A semi-automatic method for annotating a biomedical proposition bank. , 2006, , .		21
21	PubMed-EX: a web browser extension to enhance PubMed search with text mining features. Bioinformatics, 2009, 25, 3031-3032.	4.1	15
22	BioC interoperability track overview. Database: the Journal of Biological Databases and Curation, 2014, 2014, bau053-bau053.	3.0	15
23	HypertenGene: extracting key hypertension genes from biomedical literature with position and automatically-generated template features. BMC Bioinformatics, 2009, 10, S9.	2.6	14
24	Automatic Question Generation from Children's Stories for Companion Chatbot. , 2018, , .		14
25	The extraction of complex relationships and their conversion to biological expression language (BEL) overview of the BioCreative VI (2017) BEL track. Database: the Journal of Biological Databases and Curation, 2019, 2019, .	3.0	14
26	Multi-Modal Chatbot in Intelligent Manufacturing. IEEE Access, 2021, 9, 82118-82129.	4.2	14
27	BIOSMILE web search: a web application for annotating biomedical entities and relations. Nucleic Acids Research, 2008, 36, W390-W398.	14.5	13
28	Chinese text segmentation: A hybrid approach using transductive learning and statistical association measures. Expert Systems With Applications, 2010, 37, 3553-3560.	7.6	13
29	A supervised learning approach to biological question answering. Integrated Computer-Aided Engineering, 2009, 16, 271-281.	4.6	12
30	Sentiment Value Propagation for an Integral Sentiment Dictionary Based on Commonsense Knowledge. , 2011, , .		12
31	Integration of gene normalization stages and co-reference resolution using a Markov logic network. Bioinformatics, 2011, 27, 2586-2594.	4.1	12
32	BelSmile: a biomedical semantic role labeling approach for extracting biological expression language from text. Database: the Journal of Biological Databases and Curation, 2016, 2016, baw064.	3.0	12
33	Web-based pattern learning for named entity translation in Korean–Chinese cross-language information retrieval. Expert Systems With Applications, 2009, 36, 3990-3995.	7.6	10
34	LiverCancerMarkerRIF: a liver cancer biomarker interactive curation system combining text mining and expert annotations. Database: the Journal of Biological Databases and Curation, 2014, 2014, bau085-bau085.	3.0	10
35	Coreference resolution of medical concepts in discharge summaries by exploiting contextual information. Journal of the American Medical Informatics Association: JAMIA, 2012, 19, 888-896.	4.4	9
36	Collective Instance-Level Gene Normalization on the IGN Corpus. PLoS ONE, 2013, 8, e79517.	2.5	9

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37	Cross-Domain Opinion Word Identification with Query-By-Committee Active Learning. Lecture Notes in Computer Science, 2014, , 334-343.	1.3	9
38	Polarity Detection of Online Reviews Using Sentiment Concepts: NCU IISR Team at ESWC-14 Challenge on Concept-Level Sentiment Analysis. Communications in Computer and Information Science, 2014, , 53-58.	0.5	9
39	Biological question answering with syntactic and semantic feature matching and an improved mean reciprocal ranking measurement. , 2008, , .		8
40	Using conditional random fields for result identification in biomedical abstracts. Integrated Computer-Aided Engineering, 2009, 16, 339-352.	4.6	8
41	Validating Contradiction in Texts Using Online Co-Mention Pattern Checking. ACM Transactions on Asian Language Information Processing, 2012, 11, 1-21.	0.8	8
42	Learning weights for translation candidates in Japaneseâ€“Chinese information retrieval. Expert Systems With Applications, 2009, 36, 7695-7699.	7.6	7
43	A Hybrid System for Temporal Relation Extraction from Discharge Summaries. Lecture Notes in Computer Science, 2014, , 379-386.	1.3	7
44	Aspect-category-based sentiment classification with aspect-opinion relation. , 2016, , .		6
45	Cross-language article linking with different knowledge bases using bilingual topic model and translation features. Knowledge-Based Systems, 2016, 111, 228-236.	7.1	6
46	Statistical principle-based approach for gene and protein related object recognition. Journal of Cheminformatics, 2018, 10, 64.	6.1	6
47	The power of words: Enhancing music mood estimation with textual input of lyrics. , 2009, , .		5
48	A resource-saving collective approach to biomedical semantic role labeling. BMC Bioinformatics, 2014, 15, 160.	2.6	5
49	Contextual restaurant recommendation utilizing implicit feedback. , 2015, , .		5
50	Context-aware sentiment propagation using LDA topic modeling on Chinese ConceptNet. Soft Computing, 2017, 21, 2911-2921.	3.6	5
51	Improving low-resource machine transliteration by using 3-way transfer learning. Computer Speech and Language, 2022, 72, 101283.	4.3	5
52	EPG2S: Speech Generation and Speech Enhancement Based on Electropalatography and Audio Signals Using Multimodal Learning. IEEE Signal Processing Letters, 2022, 29, 2582-2586.	3.6	5
53	Web taxonomy integration with hierarchical shrinkage algorithm and fine-grained relations. Expert Systems With Applications, 2008, 35, 2123-2131.	7.6	4
54	A Survey of State of the Art Biomedical Text Mining Techniques for Semantic Analysis. , 2008, , .		4

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55	Dynamic programming re-ranking for PPI interactor and pair extraction in full-text articles. BMC Bioinformatics, 2011, 12, 60.	2.6	4
56	Multi-stage gene normalization for full-text articles with context-based species filtering for dynamic dictionary entry selection. BMC Bioinformatics, 2011, 12, S7.	2.6	4
57	Text Mining for Translational Bioinformatics. BioMed Research International, 2015, 2015, 1-2.	1.9	4
58	NERChem: adapting NERBio to chemical patents via full-token features and named entity feature with chemical sub-class composition. Database: the Journal of Biological Databases and Curation, 2016, 2016, baw135.	3.0	4
59	NCU IISR English-Korean and English-Chinese Named Entity Transliteration Using Different Grapheme Segmentation Approaches. , 2015, , .		4
60	Cross-language and Cross-encyclopedia Article Linking Using Mixed-language Topic Model and Hypernym Translation. , 2014, , .		4
61	Using a Large Margin Context-Aware Convolutional Neural Network to Automatically Extract Disease-Disease Association from Literature: Comparative Analytic Study. JMIR Medical Informatics, 2019, 7, e14502.	2.6	4
62	Semi-automatic conversion of BioProp semantic annotation to PASBio annotation. BMC Bioinformatics, 2008, 9, S18.	2.6	3
63	Result identification for biomedical abstracts using Conditional Random Fields. , 2008, , .		3
64	Chapter 12: Text Mining in Biomedicine and Healthcare. Science, Engineering, and Biology Informatics, 2014, , 325-372.	0.1	3
65	BESearch: A Supervised Learning Approach to Search for Molecular Event Participants. , 2007, , .		2
66	BIOSMILE. , 2006, , .		2
67	Verdict Inference with Claim and Retrieved Elements Using RoBERTa. , 2021, , .		2
68	Chinese Word Segmentation with Minimal Linguistic Knowledge: An Improved Conditional Random Fields Coupled with Character Clustering and Automatically Discovered Template Matching. , 2006, , .		1
69	A maximum entropy approach to Chinese grapheme-to-phoneme conversion. , 2009, , .		1
70	LAMP, A Lyrics and Audio MandoPop Dataset for Music Mood Estimation: Dataset Compilation, System Construction, and Testing. , 2010, , .		1
71	USING CONTEXTUAL INFORMATION TO CLARIFY CROSS-SPECIES GENE NORMALIZATION AMBIGUITY. International Journal of Software Engineering and Knowledge Engineering, 2010, 20, 197-214.	0.8	1
72	Improving Protein-Protein Interaction Pair Ranking with an Integrated Global Association Score. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2012, 9, 1690-1695.	3.0	1

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73	A Generative Data Augmentation Model for Enhancing Chinese Dialect Pronunciation Prediction. IEEE Transactions on Audio Speech and Language Processing, 2012, 20, 1109-1117.	3.2	1
74	Transliteration Pair Extraction from Classical Chinese Buddhist Literature Using Phonetic Similarity Measurement. New Generation Computing, 2013, 31, 265-283.	3.3	1
75	Topic-aware sentiment prediction for Chinese ConceptNet. , 2015, , .		1
76	Cross-language article linking with deep neural network based paragraph encoding. Computer Speech and Language, 2022, 72, 101279.	4.3	1
77	Using contextual information to clarify Gene Normalization ambiguity. , 2009, , .		0
78	A Dynamic Programming Re-ranking Approach to Enhance PPI Interactor Extraction. IPSJ Transactions on Bioinformatics, 2010, 3, 91-94.	0.2	0
79	Query and tag translation for Chinese-Korean cross-language social media retrieval. , 2011, , .		0
80	Visual webpage block importance prediction using conditional random fields. Journal of the Association for Information Science and Technology, 2011, 62, 2225-2235.	2.6	0
81	Collective Web-Based Parenthetical Translation Extraction Using Markov Logic Networks. ACM Transactions on Asian and Low-Resource Language Information Processing, 2016, 15, 1-14.	2.0	0
82	Using Deep-Q Network to Select Candidates from N-best Speech Recognition Hypotheses for Enhancing Dialogue State Tracking. , 2019, , .		0
83	Cross-language Article Linking Using Cross-Encyclopedia Entity Embedding. , 2018, , .		0
84	DeepEncyclolink: A Cross-Encyclopedia, Cross-language Article-Linking System Based on Deep Learning. , 2020, , .		0
85	Semi-joint Labeling for Chinese Named Entity Recognition. , 2008, , 107-116.		0
86	Design and Construction of the Spatiotemporal Information Platform for the Interpretation of ShiJi. , 2021, , .		0