

# Yanchun Liang

## List of Publications by Year in descending order

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Version: 2024-02-01

103  
papers

3,344  
citations

257450

24  
h-index

155660

55  
g-index

106  
all docs

106  
docs citations

106  
times ranked

5711  
citing authors

#	ARTICLE	IF	CITATIONS
1	Deep Feature-Based Text Clustering and its Explanation. IEEE Transactions on Knowledge and Data Engineering, 2022, 34, 3669-3680.	5.7	39
2	Discovering trends and hotspots of biosafety and biosecurity research via machine learning. Briefings in Bioinformatics, 2022, 23, .	6.5	1
3	International Natural Gas Price Trends Prediction with Historical Prices and Related News. Energies, 2022, 15, 3573.	3.1	9
4	DLD: An Optimized Chinese Speech Recognition Model Based on Deep Learning. Complexity, 2022, 2022, 1-8.	1.6	3
5	The bioinformatics toolbox for circRNA discovery and analysis. Briefings in Bioinformatics, 2021, 22, 1706-1728.	6.5	170
6	Prediction of Proteinâ€™s ATP Binding Residues Based on Ensemble of Deep Convolutional Neural Networks and LightGBM Algorithm. International Journal of Molecular Sciences, 2021, 22, 939.	4.1	21
7	Cancer Research Trend Analysis Based on Fusion Feature Representation. Entropy, 2021, 23, 338.	2.2	2
8	Relating brain structure images to personality characteristics using 3D convolution neural network. CAAI Transactions on Intelligence Technology, 2021, 6, 338-346.	8.1	3
9	Deep learning analysis and age prediction from shoeprints. Forensic Science International, 2021, 327, 110987.	2.2	16
10	Overlapping Community Detection Based on Membership Degree Propagation. Entropy, 2021, 23, 15.	2.2	5
11	Acupuncture and Tuina Knowledge Graph for Ancient Literature of Traditional Chinese Medicine. , 2021, , .		0
12	A dynamic programming approach to integrate gene expression data and network information for pathway model generation. Bioinformatics, 2020, 36, 169-176.	4.1	11
13	DeepUEP: Prediction of Urine Excretory Proteins Using Deep Learning. IEEE Access, 2020, 8, 100251-100261.	4.2	3
14	Lunar impact crater identification and age estimation with Changâ€™E data by deep and transfer learning. Nature Communications, 2020, 11, 6358.	12.8	79
15	lncLocation: Efficient Subcellular Location Prediction of Long Non-Coding RNA-Based Multi-Source Heterogeneous Feature Fusion. International Journal of Molecular Sciences, 2020, 21, 7271.	4.1	10
16	A Novel Prediction Method for ATP-Binding Sites From Protein Primary Sequences Based on Fusion of Deep Convolutional Neural Network and Ensemble Learning. IEEE Access, 2020, 8, 21485-21495.	4.2	2
17	Dimension Reduction and Clustering Models for Single-Cell RNA Sequencing Data: A Comparative Study. International Journal of Molecular Sciences, 2020, 21, 2181.	4.1	33
18	Construction and Applications on Open Online Course of Data Structure and Algorithms. , 2020, , .		1

#	ARTICLE	IF	CITATIONS
19	Exploration of Online and Offline Mixed Teaching Mode of Data Structure. , 2020, , .		1
20	LncFinder: an integrated platform for long non-coding RNA identification utilizing sequence intrinsic composition, structural information and physicochemical property. Briefings in Bioinformatics, 2019, 20, 2009-2027.	6.5	98
21	Boost particle swarm optimization with fitness estimation. Natural Computing, 2019, 18, 229-247.	3.0	8
22	Feature space learning model. Journal of Ambient Intelligence and Humanized Computing, 2019, 10, 2029-2040.	4.9	6
23	Predicting lncRNA-disease associations using network topological similarity based on deep mining heterogeneous networks. Mathematical Biosciences, 2019, 315, 108229.	1.9	17
24	Deep Residual Convolutional Neural Network for Protein-Protein Interaction Extraction. IEEE Access, 2019, 7, 89354-89365.	4.2	26
25	A Novel Iterative Velocity Control Algorithm and Its FPGA Implementation Based on Trigonometric Function. Chinese Journal of Electronics, 2019, 28, 237-245.	1.5	4
26	Surprisingly Popular Algorithm-Based Comprehensive Adaptive Topology Learning PSO. , 2019, , .		5
27	Diagnosis of Breast Hyperplasia and Evaluation of RuXian-I Based on Metabolomics Deep Belief Networks. International Journal of Molecular Sciences, 2019, 20, 2620.	4.1	7
28	Warburg Effects in Cancer and Normal Proliferating Cells: Two Tales of the Same Name. Genomics, Proteomics and Bioinformatics, 2019, 17, 273-286.	6.9	39
29	Using Machine Learning to Measure Relatedness Between Genes: A Multi-Features Model. Scientific Reports, 2019, 9, 4192.	3.3	27
30	Long Noncoding RNA and Protein Interactions: From Experimental Results to Computational Models Based on Network Methods. International Journal of Molecular Sciences, 2019, 20, 1284.	4.1	29
31	Simulation of Evacuating Crowd Based on Deep Learning and Social Force Model. IEEE Access, 2019, 7, 155361-155371.	4.2	12
32	Trends in Alzheimer's Disease Research Based upon Machine Learning Analysis of PubMed Abstracts. International Journal of Biological Sciences, 2019, 15, 2065-2074.	6.4	15
33	Image Captioning with Bidirectional Semantic Attention-Based Guiding of Long Short-Term Memory. Neural Processing Letters, 2019, 50, 103-119.	3.2	33
34	Capsule network for protein post-translational modification site prediction. Bioinformatics, 2019, 35, 2386-2394.	4.1	92
35	Relation path embedding in knowledge graphs. Neural Computing and Applications, 2019, 31, 5629-5639.	5.6	24
36	The Deep Learning-Based Recommender System "Pubmender" for Choosing a Biomedical Publication Venue: Development and Validation Study. Journal of Medical Internet Research, 2019, 21, e12957.	4.3	47

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37	Multi-label Deep Learning for Gene Function Annotation in Cancer Pathways. <i>Scientific Reports</i> , 2018, 8, 267.	3.3	15
38	Text classification based on deep belief network and softmax regression. <i>Neural Computing and Applications</i> , 2018, 29, 61-70.	5.6	199
39	A hotspots analysis-relation discovery representation model for revealing diabetes mellitus and obesity. <i>BMC Systems Biology</i> , 2018, 12, 116.	3.0	6
40	A content-based recommender system for computer science publications. <i>Knowledge-Based Systems</i> , 2018, 157, 1-9.	7.1	268
41	The method for breast cancer grade prediction and pathway analysis based on improved multiple kernel learning. <i>Journal of Bioinformatics and Computational Biology</i> , 2017, 15, 1650037.	0.8	4
42	BFDCA: A Comprehensive Tool of Using Bayes Factor for Differential Co-Expression Analysis. <i>Journal of Molecular Biology</i> , 2017, 429, 446-453.	4.2	10
43	MusiteDeep: a deep-learning framework for general and kinase-specific phosphorylation site prediction. <i>Bioinformatics</i> , 2017, 33, 3909-3916.	4.1	205
44	A Novel Unsupervised Algorithm for Biological Process-based Analysis on Cancer. <i>Scientific Reports</i> , 2017, 7, 4671.	3.3	4
45	RNA-TVcurve: a Web server for RNA secondary structure comparison based on a multi-scale similarity of its triple vector curve representation. <i>BMC Bioinformatics</i> , 2017, 18, 51.	2.6	10
46	A feature selection method based on multiple kernel learning with expression profiles of different types. <i>BioData Mining</i> , 2017, 10, 4.	4.0	26
47	Relation discovery and hotspots analysis on diabetes mellitus and obesity with representation model. , 2017, , .		1
48	Computational Analysis of Specific MicroRNA Biomarkers for Noninvasive Early Cancer Detection. <i>BioMed Research International</i> , 2017, 2017, 1-9.	1.9	7
49	Incident: A Tool for Rapid Identification of Long Noncoding RNAs Utilizing Sequence Intrinsic Composition and Open Reading Frame Information. <i>International Journal of Genomics</i> , 2016, 2016, 1-11.	1.6	43
50	Long Noncoding RNA Identification: Comparing Machine Learning Based Tools for Long Noncoding Transcripts Discrimination. <i>BioMed Research International</i> , 2016, 2016, 1-14.	1.9	1,176
51	Improving degree-based variable ordering heuristics for solving constraint satisfaction problems. <i>Journal of Heuristics</i> , 2016, 22, 125-145.	1.4	7
52	Dissection of early transcriptional responses to water stress in <i>Arundo donax</i> L. by unigene-based RNA-seq. <i>Biotechnology for Biofuels</i> , 2016, 9, 54.	6.2	32
53	Decorrelationâ€“Separability-Based Affinity Propagation for Semisupervised Clustering of Hyperspectral Images. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2016, 9, 568-582.	4.9	5
54	Evolutionary conservation and function of the human embryonic stem cell specific miR-302/367 cluster. <i>Comparative Biochemistry and Physiology Part D: Genomics and Proteomics</i> , 2015, 16, 83-98.	1.0	20

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55	A Bayesian model for detection of high-order interactions among genetic variants in genome-wide association studies. BMC Genomics, 2015, 16, 1011.	2.8	31
56	Specific Biomarkers: Detection of Cancer Biomarkers Through High-Throughput Transcriptomics Data. Cognitive Computation, 2015, 7, 652-666.	5.2	3
57	Essential protein identification based on essential protein-protein interaction prediction by Integrated Edge Weights. Methods, 2015, 83, 51-62.	3.8	25
58	An Efficient Genetic Algorithm for Optimization Problems with Time-Consuming Fitness Evaluation. International Journal of Computational Methods, 2015, 12, 1350106.	1.3	10
59	Identification of Essential Proteins Based on Ranking Edge-Weights in Protein-Protein Interaction Networks. PLoS ONE, 2014, 9, e108716.	2.5	15
60	3'UTR shortening identifies high-risk cancers with targeted dysregulation of the ceRNA network. Scientific Reports, 2014, 4, 5406.	3.3	52
61	Full Text Clustering and Relationship Network Analysis of Biomedical Publications. PLoS ONE, 2014, 9, e108847.	2.5	8
62	Incremental and Decremental Affinity Propagation for Semisupervised Clustering in Multispectral Images. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 1666-1679.	6.3	31
63	The Application of Fuzzy System Group in Intelligent Diagnosis for Power Transformer. , 2011, , .		0
64	A Support Vector and K-Means Based Hybrid Intelligent Data Clustering Algorithm. IEICE Transactions on Information and Systems, 2011, E94-D, 2234-2243.	0.7	0
65	Prediction of Drought-Resistant Genes in Arabidopsis thaliana Using SVM-RFE. PLoS ONE, 2011, 6, e21750.	2.5	44
66	Mean, median and tri-mean based statistical detection methods for differential gene expression in microarray data. , 2010, , .		1
67	Genetic algorithm with affinity propagation. , 2010, , .		2
68	Gene Expression Regulation in E-Cell Model Analog-Cell. , 2010, , .		0
69	Prediction of disease-resistant gene in rice based on SVM-RFE. , 2010, , .		3
70	A study on SVM with feature selection for fault diagnosis of power systems. , 2010, , .		3
71	A hybrid algorithm of minimum spanning tree and nearest neighbor for classifying human cancers. , 2010, , .		4
72	A novel support vector and K-Means based hybrid clustering algorithm. , 2010, , .		3

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73	An integrated algorithm based on artificial bee colony and particle swarm optimization. , 2010, , .		30
74	Implementation and analysis of moving objects detection in Video Surveillance. , 2010, , .		1
75	Dynamic Scheduling for Semiconductor Wafer Fabrication Based on ETAEMS and MAS. , 2010, , .		1
76	Wireless Digital Gas Meter with Lower Power Consumption. , 2010, , .		2
77	Parameter Selection of Support Vector Regression Based on a Novel Chaotic Immune Algorithm. , 2009, , .		4
78	Data Preprocessing in SVM-Based Keywords Extraction from Scientific Documents. , 2009, , .		5
79	Operon Prediction by Decision Tree Classifier Based on VPRSM. , 2009, , .		1
80	A Fuzzy-Statistics-Based Principal Component Analysis (FS-PCA) Method for Multispectral Image Enhancement and Display. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 3937-3947.	6.3	39
81	An Ant Colony Optimization Method for Prize-collecting Traveling Salesman Problem with Time Windows. , 2008, , .		11
82	A Novel Approach for Classifying Human Cancers. , 2008, , .		0
83	The Application of Support Vector Machine to Operon Prediction. , 2008, , .		1
84	Adaptive and iterative least squares support vector regression based on quadratic Renyi entropy. , 2008, , .		5
85	Unsupervised key-phrases extraction from scientific papers using domain and linguistic knowledge. , 2008, , .		9
86	SOM2W and RBF Neural Network-Based Hybrid Models and Their Applications to New Share Pricing. , 2008, , .		3
87	Improved Quantum-Inspired Evolutionary Algorithm and Its Application to 3-SAT Problems. , 2008, , .		4
88	Algorithm for Disease Association Studies Using Functionally Informative Haplotype Motif. , 2008, , .		0
89	A New Application of Biclustering Analysis on Loss of Heterozygosity Data of Lung Carcinomas Samples. , 2008, , .		0
90	A Novel Time-Delay Recurrent Neural Network and Application for Identifying and Controlling Nonlinear Systems. , 2007, , .		2

#	ARTICLE	IF	CITATIONS
91	A Populations Evolution Study Using the Genotype Frequency Data of Single Nucleotide Polymorphism from Y-Chromosome. , 2007, , .		0
92	Text Categorization Method Based on Improved Mutual Information and Characteristic Weights Evaluation Algorithms. , 2007, , .		1
93	Prediction of Transcription Factor Binding Sites Using Genetic Algorithm. , 2006, , .		0
94	Study on optimization of agent initial positions in land combat simulation*. Progress in Natural Science: Materials International, 2004, 14, 257-261.	4.4	4
95	An extended Lagrangian support vector machine for classifications*. Progress in Natural Science: Materials International, 2004, 14, 519-523.	4.4	5
96	Estimate of error bounds in the improved support vector regression*. Progress in Natural Science: Materials International, 2004, 14, 362-364.	4.4	1
97	Solving constrained traveling salesman problems by genetic algorithms*. Progress in Natural Science: Materials International, 2004, 14, 631-637.	4.4	3
98	A dynamic fuzzy clustering method based on genetic algorithm*. Progress in Natural Science: Materials International, 2003, 13, 932-935.	4.4	5
99	Computation speedup in the dynamic simulation of MEMS by macromodels. Progress in Natural Science: Materials International, 2003, 13, 219-227.	4.4	2
100	A fast SVM training algorithm based on the set segmentation and k -means clustering*. Progress in Natural Science: Materials International, 2003, 13, 750-755.	4.4	12
101	An improved method of support vector machine and its applications to financial time series forecasting *. Progress in Natural Science: Materials International, 2003, 13, 696-700.	4.4	10
102	Solving traveling salesman problems by genetic algorithms*. Progress in Natural Science: Materials International, 2003, 13, 135-141.	4.4	10
103	A computational-intelligence-based optimization of agents' initial positions in land combat simulation *. Progress in Natural Science: Materials International, 2003, 13, 620-625.	4.4	1