

Minghua Deng

List of Publications by Year in descending order

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Version: 2024-02-01

98
papers

3,651
citations

186265

28
h-index

144013

57
g-index

101
all docs

101
docs citations

101
times ranked

4645
citing authors

#	ARTICLE	IF	CITATIONS
1	Inferring Domain-Domain Interactions From Protein-Protein Interactions. <i>Genome Research</i> , 2002, 12, 1540-1548.	5.5	376
2	A dynamic programming algorithm for haplotype block partitioning. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 7335-7339.	7.1	312
3	Prediction of Protein Function Using Protein-Protein Interaction Data. <i>Journal of Computational Biology</i> , 2003, 10, 947-960.	1.6	274
4	A critical assessment of <i>Mus musculus</i> gene function prediction using integrated genomic evidence. <i>Genome Biology</i> , 2008, 9, S2.	9.6	214
5	Mapping gene ontology to proteins based on protein-protein interaction data. <i>Bioinformatics</i> , 2004, 20, 895-902.	4.1	149
6	An Integrated Probabilistic Model for Functional Prediction of Proteins. <i>Journal of Computational Biology</i> , 2004, 11, 463-475.	1.6	134
7	CCLasso: correlation inference for compositional data through Lasso. <i>Bioinformatics</i> , 2015, 31, 3172-3180.	4.1	133
8	New developments of alignment-free sequence comparison: measures, statistics and next-generation sequencing. <i>Briefings in Bioinformatics</i> , 2014, 15, 343-353.	6.5	126
9	A Lasso regression model for the construction of microRNA-target regulatory networks. <i>Bioinformatics</i> , 2011, 27, 2406-2413.	4.1	110
10	Cell Culture System for Analysis of Genetic Heterogeneity Within Hepatocellular Carcinomas and Response to Pharmacologic Agents. <i>Gastroenterology</i> , 2017, 152, 232-242.e4.	1.3	107
11	An integrated approach to the prediction of domain-domain interactions. <i>BMC Bioinformatics</i> , 2006, 7, 269.	2.6	102
12	Diffusion Kernel-Based Logistic Regression Models for Protein Function Prediction. <i>OMICS A Journal of Integrative Biology</i> , 2006, 10, 40-55.	2.0	90
13	Alignment-Free Sequence Comparison Based on Next-Generation Sequencing Reads. <i>Journal of Computational Biology</i> , 2013, 20, 64-79.	1.6	76
14	Comparison of metagenomic samples using sequence signatures. <i>BMC Genomics</i> , 2012, 13, 730.	2.8	74
15	RNA Editome in Rhesus Macaque Shaped by Purifying Selection. <i>PLoS Genetics</i> , 2014, 10, e1004274.	3.5	71
16	Stochastic model of yeast cell-cycle network. <i>Physica D: Nonlinear Phenomena</i> , 2006, 219, 35-39.	2.8	67
17	Localized high abundance of Marine Group II archaea in the subtropical Pearl River Estuary: implications for their niche adaptation. <i>Environmental Microbiology</i> , 2018, 20, 734-754.	3.8	53
18	Differential network analysis via lasso penalized D-trace loss. <i>Biometrika</i> , 2017, 104, 755-770.	2.4	49

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19	Deep soft K-means clustering with self-training for single-cell RNA sequence data. <i>NAR Genomics and Bioinformatics</i> , 2020, 2, lqaa039.	3.2	48
20	Transcription and splicing regulation in human umbilical vein endothelial cells under hypoxic stress conditions by exon array. <i>BMC Genomics</i> , 2009, 10, 126.	2.8	47
21	Searching for bidirectional promoters in <i>Arabidopsis thaliana</i> . <i>BMC Bioinformatics</i> , 2009, 10, S29.	2.6	45
22	CD4 T-cell transcriptome analysis reveals aberrant regulation of STAT3 and Wnt signaling pathways in rheumatoid arthritis: evidence from a case-control study. <i>Arthritis Research and Therapy</i> , 2015, 17, 76.	3.5	45
23	RaptorX-Angle: real-value prediction of protein backbone dihedral angles through a hybrid method of clustering and deep learning. <i>BMC Bioinformatics</i> , 2018, 19, 100.	2.6	44
24	scRMD: imputation for single cell RNA-seq data via robust matrix decomposition. <i>Bioinformatics</i> , 2020, 36, 3156-3161.	4.1	42
25	gCoda: Conditional Dependence Network Inference for Compositional Data. <i>Journal of Computational Biology</i> , 2017, 24, 699-708.	1.6	40
26	Assessment of the reliability of protein-protein interactions and protein function prediction. <i>Pacific Symposium on Biocomputing Pacific Symposium on Biocomputing</i> , 2003, , 140-51.	0.7	39
27	Inferring the progression of multifocal liver cancer from spatial and temporal genomic heterogeneity. <i>Oncotarget</i> , 2016, 7, 2867-2877.	1.8	38
28	Combinatorial regulation of transcription factors and microRNAs. <i>BMC Systems Biology</i> , 2010, 4, 150.	3.0	37
29	A microscopic landscape of the invasive breast cancer genome. <i>Scientific Reports</i> , 2016, 6, 27545.	3.3	33
30	Prediction of protein function using protein-protein interaction data. , 0, , .		31
31	Detecting differentially expressed genes by relative entropy. <i>Journal of Theoretical Biology</i> , 2005, 234, 395-402.	1.7	31
32	Systematic identification of conserved motif modules in the human genome. <i>BMC Genomics</i> , 2010, 11, 567.	2.8	28
33	Single-cell RNA-seq data semi-supervised clustering and annotation via structural regularized domain adaptation. <i>Bioinformatics</i> , 2021, 37, 775-784.	4.1	28
34	Detecting virus integration sites based on multiple related sequencing data by VirTect. <i>BMC Medical Genomics</i> , 2019, 12, 19.	1.5	27
35	A Survey on Deep Hashing Methods. <i>ACM Transactions on Knowledge Discovery From Data</i> , 2023, 17, 1-50.	3.5	27
36	Inference of Markovian properties of molecular sequences from NGS data and applications to comparative genomics. <i>Bioinformatics</i> , 2016, 32, 993-1000.	4.1	25

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37	Etiologic Diagnosis of Lower Respiratory Tract Bacterial Infections Using Sputum Samples and Quantitative Loop-Mediated Isothermal Amplification. <i>PLoS ONE</i> , 2012, 7, e38743.	2.5	24
38	Binding Energy Landscape Analysis Helps to Discriminate True Hits from High-Scoring Decoys in Virtual Screening. <i>Journal of Chemical Information and Modeling</i> , 2010, 50, 1855-1864.	5.4	23
39	Integrating Deep Supervised, Self-Supervised and Unsupervised Learning for Single-Cell RNA-seq Clustering and Annotation. <i>Genes</i> , 2020, 11, 792.	2.4	23
40	GHNN: Graph Harmonic Neural Networks for semi-supervised graph-level classification. <i>Neural Networks</i> , 2022, 151, 70-79.	5.9	23
41	Pysim-sv: a package for simulating structural variation data with GC-biases. <i>BMC Bioinformatics</i> , 2017, 18, 53.	2.6	22
42	Expectation pooling: an effective and interpretable pooling method for predicting DNA-protein binding. <i>Bioinformatics</i> , 2020, 36, 1405-1412.	4.1	22
43	Improving residue-residue contact prediction via low-rank and sparse decomposition of residue correlation matrix. <i>Biochemical and Biophysical Research Communications</i> , 2016, 472, 217-222.	2.1	19
44	scNAME: neighborhood contrastive clustering with ancillary mask estimation for scRNA-seq data. <i>Bioinformatics</i> , 2022, 38, 1575-1583.	4.1	18
45	Statistical Analysis Reveals Co-Expression Patterns of Many Pairs of Genes in Yeast Are Jointly Regulated by Interacting Loci. <i>PLoS Genetics</i> , 2013, 9, e1003414.	3.5	17
46	scMRA: a robust deep learning method to annotate scRNA-seq data with multiple reference datasets. <i>Bioinformatics</i> , 2022, 38, 738-745.	4.1	17
47	Integrative Approaches for microRNA Target Prediction: Combining Sequence Information and the Paired mRNA and miRNA Expression Profiles. <i>Current Bioinformatics</i> , 2013, 8, 37-45.	1.5	16
48	Insights into the transmission of respiratory infectious diseases through empirical human contact networks. <i>Scientific Reports</i> , 2016, 6, 31484.	3.3	16
49	Single-Cell Transcriptome Data Clustering via Multinomial Modeling and Adaptive Fuzzy K-Means Algorithm. <i>Frontiers in Genetics</i> , 2020, 11, 295.	2.3	15
50	Uncovering the Dominant Motion Modes of Allosteric Regulation Improves Allosteric Site Prediction. <i>Journal of Chemical Information and Modeling</i> , 2022, 62, 187-195.	5.4	14
51	Deepprune: Learning Efficient and Interpretable Convolutional Networks Through Weight Pruning for Predicting DNA-Protein Binding. <i>Frontiers in Genetics</i> , 2019, 10, 1145.	2.3	13
52	Yeast cell fate control by temporal redundancy modulation of transcription factor paralogs. <i>Nature Communications</i> , 2021, 12, 3145.	12.8	12
53	Multiple alignment-free sequence comparison. <i>Bioinformatics</i> , 2013, 29, 2690-2698.	4.1	11
54	Compositional data network analysis via lasso penalized D-trace loss. <i>Bioinformatics</i> , 2019, 35, 3404-3411.	4.1	11

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55	Prediction of protein function using protein-protein interaction data. <i>Proceedings</i> , 2002, 1, 197-206.	0.1	11
56	CLEAR: Cluster-Enhanced Contrast for Self-Supervised Graph Representation Learning. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2024, 35, 899-912.	11.3	11
57	Modular analysis of the probabilistic genetic interaction network. <i>Bioinformatics</i> , 2011, 27, 853-859.	4.1	10
58	VCNet: vector-based gene co-expression network construction and its application to RNA-seq data. <i>Bioinformatics</i> , 2017, 33, 2173-2181.	4.1	9
59	Inferring Gene-Disease Association by an Integrative Analysis of eQTL Genome-Wide Association Study and Protein-Protein Interaction Data. <i>Human Heredity</i> , 2018, 83, 117-129.	0.8	9
60	Sparsity-Penalized Stacked Denoising Autoencoders for Imputing Single-Cell RNA-seq Data. <i>Genes</i> , 2020, 11, 532.	2.4	8
61	Conservation and implications of eukaryote transcriptional regulatory regions across multiple species. <i>BMC Genomics</i> , 2008, 9, 623.	2.8	7
62	Adjustment method for microarray data generated using two-cycle RNA labeling protocol. <i>BMC Genomics</i> , 2013, 14, 31.	2.8	6
63	SVmine improves structural variation detection by integrative mining of predictions from multiple algorithms. <i>Bioinformatics</i> , 2017, 33, 3348-3354.	4.1	6
64	Direct interaction network and differential network inference from compositional data via lasso penalized D-trace loss. <i>PLoS ONE</i> , 2019, 14, e0207731.	2.5	6
65	Predicting protein inter-residue contacts using composite likelihood maximization and deep learning. <i>BMC Bioinformatics</i> , 2019, 20, 537.	2.6	6
66	Nonlinear cooperation of p53-ING1-induced bax expression and protein S-nitrosylation in GSNO-induced thymocyte apoptosis: a quantitative approach with cross-platform validation. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2009, 14, 236-245.	4.9	5
67	Integrating multiple types of data to predict novel cell cycle-related genes. <i>BMC Systems Biology</i> , 2011, 5, S9.	3.0	5
68	Imputing missing values for genetic interaction data. <i>Methods</i> , 2014, 67, 269-277.	3.8	5
69	A Novel Noninvasive Program for Staging Liver Fibrosis in Untreated Patients With Chronic Hepatitis B. <i>Clinical and Translational Gastroenterology</i> , 2019, 10, e00033.	2.5	5
70	Profiling transcription factor activity dynamics using intronic reads in time-series transcriptome data. <i>PLoS Computational Biology</i> , 2022, 18, e1009762.	3.2	5
71	Statistical Methods for Microbiome Compositional Data Network Inference: A Survey. <i>Journal of Computational Biology</i> , 2022, , .	1.6	5
72	REMAS: a new regression model to identify alternative splicing events from exon array data. <i>BMC Bioinformatics</i> , 2009, 10, S18.	2.6	4

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73	Predicting MicroRNA targets by integrating sequence and expression data in cancer. , 2011, , .		4
74	Hybridization and amplification rate correction for affymetrix SNP arrays. BMC Medical Genomics, 2012, 5, 24.	1.5	4
75	Estimation of isoform expression in RNA-seq data using a hierarchical Bayesian model. Journal of Bioinformatics and Computational Biology, 2015, 13, 1542001.	0.8	4
76	DNA-GCN: Graph Convolutional Networks for Predicting DNA-Protein Binding. Lecture Notes in Computer Science, 2021, , 458-466.	1.3	4
77	Improve Deep Unsupervised Hashing via Structural and Intrinsic Similarity Learning. IEEE Signal Processing Letters, 2022, 29, 602-606.	3.6	4
78	Using graphical adaptive lasso approach to construct transcription factor and microRNA's combinatorial regulatory network in breast cancer. IET Systems Biology, 2014, 8, 87-95.	1.5	3
79	Low-Rank and Sparse Matrix Decomposition for Genetic Interaction Data. BioMed Research International, 2015, 2015, 1-11.	1.9	3
80	A study of biases of DNA copy number estimation based on PICR model. Frontiers of Mathematics in China, 2011, 6, 1203-1216.	0.7	2
81	Comparison and evaluation of network clustering algorithms applied to genetic interaction networks. Frontiers in Bioscience - Elite, 2012, E4, 2150.	1.8	2
82	Using a Stochastic AdaBoost Algorithm to Discover Interactome Motif Pairs from Sequences. Lecture Notes in Computer Science, 2006, , 622-630.	1.3	2
83	Alignment-Free Sequence Comparison Based on Next Generation Sequencing Reads: Extended Abstract. Lecture Notes in Computer Science, 2012, , 272-285.	1.3	2
84	Rare variant association tests for ancestry-matched case-control data based on conditional logistic regression. Briefings in Bioinformatics, 2022, , .	6.5	2
85	A network based covariance test for detecting multivariate eQTL in saccharomyces cerevisiae. BMC Systems Biology, 2016, 10, 8.	3.0	1
86	DHWP: Learning High-Quality Short Hash Codes Via Weight Pruning. , 2022, , .		1
87	On Design of Oligonucleotide SNP Arrays and Methods for Genotype Calling. , 2008, , .		0
88	Pathway Detection Based on Hierarchical LASSO Regression Model. , 2009, , .		0
89	Feature-Based Causal Structure Discovery in Protein and Gene Expression Data with Bayesian Network. , 2009, , .		0
90	A Robust Empirical Bayesian Method for Detecting Differentially Expressed Genes. , 2009, , .		0

#	ARTICLE	IF	CITATIONS
91	Prediction of Protein Functions from Protein-Protein Interaction Data Based on a New Measure of Network Betweenness. International Conference on Bioinformatics and Biomedical Engineering: [proceedings] International Conference on Bioinformatics and Biomedical Engineering, 2010, , .	0.0	0
92	A hybridization model for tiling array analysis. , 2010, , .		0
93	Integrative Approaches for microRNA Target Prediction: Combining Sequence Information and the Paired mRNA and miRNA Expression Profiles. Current Bioinformatics, 2013, 8, 37-45.	1.5	0
94	Estimation of isoform expression using hierarchical Bayesian model by RNA-seq. , 2015, , .		0
95	International Workshop on Applications of Probability and Statistics to Biology, July 11â€”13, 2019 â€”In Honor of Professor Minping Qianâ€™s 80th Birthday. Quantitative Biology, 2020, 8, 177-186.	0.5	0
96	Direct interaction network inference for compositional data via codaloss. Journal of Bioinformatics and Computational Biology, 2020, 18, 2050037.	0.8	0
97	Predicting kinase functional sites using hierarchical stochastic language modelling. Statistics and Its Interface, 2010, 3, 523-531.	0.3	0
98	An Interpretation of Convolutional Neural Networks for Motif Finding from the View of Probability. , 2021, , .		0