Junbo Duan

List of Publications by Year
in descending order

29 papers	631 citations	840119 11 h-index	752256 20 g-index
29 all docs	29 docs citations	29 times ranked	1027 citing authors

#	Article	IF	Citations
1	ERINS: Novel Sequence Insertion Detection by Constructing an Extended Reference. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2021, 18, 1893-1901.	1.9	1
2	Fitting of Atomic Force Microscopy Force Curves with a Sparse Representation Model. Mathematical Problems in Engineering, 2021, 2021, 1-7.	0.6	0
3	Smoothing of Time-Varying Graph With the Generalized LASSO. IEEE Access, 2021, 9, 162348-162358.	2.6	0
4	HOPS: A Fast Algorithm for Segmenting Piecewise Polynomials of Arbitrary Orders. IEEE Access, 2021, 9, 155977-155987.	2.6	3
5	SVSR: A Program to Simulate Structural Variations and Generate Sequencing Reads for Multiple Platforms. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2020, 17, 1082-1091.	1.9	13
6	Comparative study of whole exome sequencing-based copy number variation detection tools. BMC Bioinformatics, 2020, 21, 97.	1.2	40
7	CRSCNV: A Cross-Model-Based Statistical Approach to Detect Copy Number Variations in Sequence Data. IEEE Access, 2020, 8, 2302-2312.	2.6	2
8	A Parallelizable Framework for Segmenting Piecewise Signals. IEEE Access, 2019, 7, 13217-13229.	2.6	1
9	Detection of False-Positive Deletions from the Database of Genomic Variants. BioMed Research International, 2019, 2019, 1-8.	0.9	0
10	A Joint Least Squares and Least Absolute Deviation Model. IEEE Signal Processing Letters, 2019, 26, 543-547.	2.1	2
11	CONDEL: Detecting Copy Number Variation and Genotyping Deletion Zygosity from Single Tumor Samples using Sequence Data. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2018, 17, 1-1.	1.9	42
12	Pulse-Inversion Subharmonic Ultrafast Active Cavitation Imaging in Tissue Using Fast Eigenspace-Based Adaptive Beamforming and Cavitation Deconvolution. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2017, 64, 1175-1193.	1.7	11
13	Increasing Axial Resolution of Ultrasonic Imaging With a Joint Sparse Representation Model. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2016, 63, 2045-2056.	1.7	19
14	Generalized LASSO with under-determined regularization matrices. Signal Processing, 2016, 127, 239-246.	2.1	40
15	A Sparse Model Based Detection of Copy Number Variations From Exome Sequencing Data. IEEE Transactions on Biomedical Engineering, 2016, 63, 496-505.	2.5	5
16	Pulse inversion based multi-subharmonic composite cavitation imaging. , 2015, , .		0
17	Discover layered structure in ultrasound images with a joint sparse representation model. , 2015, , .		1
18	Population clustering based on copy number variations detected from next generation sequencing data. Journal of Bioinformatics and Computational Biology, 2014, 12, 1450021.	0.3	0

#	Article	IF	Citations
19	Common Copy Number Variation Detection From Multiple Sequenced Samples. IEEE Transactions on Biomedical Engineering, 2014, 61, 928-937.	2.5	22
20	Sparse representation based biomarker selection for schizophrenia with integrated analysis of fMRI and SNPs. NeuroImage, 2014, 102, 220-228.	2.1	44
21	CNV-TV: A robust method to discover copy number variation from short sequencing reads. BMC Bioinformatics, 2013, 14, 150.	1.2	38
22	Sparse representation based biomarker selection for schizophrenia with integrated analysis of fMRI and SNP data. , 2013, , .		2
23	Modeling exome sequencing data with generalized Gaussian distribution with application to copy number variation detection. , 2013, , .		0
24	Comparative Studies of Copy Number Variation Detection Methods for Next-Generation Sequencing Technologies. PLoS ONE, 2013, 8, e59128.	1.1	138
25	Detection of common copy number variation with application to population clustering from next generation sequencing data. , 2012, 2012, 1246-9.		3
26	On LARS/Homotopy Equivalence Conditions for Over-Determined LASSO. IEEE Signal Processing Letters, 2012, 19, 894-897.	2.1	8
27	Subtyping of Gliomaby Combining Gene Expression and CNVs Data Based on a Compressive Sensing Approach. Advancements in Genetic Engineering, 2012, 01, 101.	0.1	4
28	From Bernoulliâ€“Gaussian Deconvolution to Sparse Signal Restoration. IEEE Transactions on Signal Processing, 2011, 59, 4572-4584.	3.2	106
29	Automated Force Volume Image Processing for Biological Samples. PLoS ONE, 2011, 6, e18887.	1.1	86