Nikita A Sakhanenko

List of Publications by Year
in descending order

28 papers	479 citations	1040056 9 h-index	752698 20 g-index
31 all docs	31 docs citations	31 times ranked	788 citing authors

#	Article	IF	Citations
1	The Extracellular RNA Communication Consortium: Establishing Foundational Knowledge and Technologies for Extracellular RNA Research. Cell, 2019, 177, 231-242.	28.9	152
2	An Evaluation of High-Throughput Approaches to QTL Mapping in Saccharomyces cerevisiae. Genetics, 2014, 196, 853-865.	2.9	86
3	Describing the Complexity of Systems: Multivariable â€œSet Complexityâ€•and the Information Basis of Systems Biology. Journal of Computational Biology, 2014, 21, 118-140.	1.6	28
4	Biological Data Analysis as an Information Theory Problem: Multivariable Dependence Measures and the Shadows Algorithm. Journal of Computational Biology, 2015, 22, 1005-1024.	1.6	24
5	Expansion of the Kullback-Leibler Divergence, and a New Class of Information Metrics. Axioms, 2017, 6, 8.	1.9	20
6	Discovering Pair-Wise Genetic Interactions: An Information Theory-Based Approach. PLoS ONE, 2014, 9, e92310.	2.5	20
7	A systems-biology approach to modular genetic complexity. Chaos, 2010, 20, 026102.	2.5	14
8	Complexity of networks I: The set-complexity of binary graphs. Complexity, 2011, 17, 51-64.	1.6	12
9	Probabilistic Logic Methods and Some Applications to Biology and Medicine. Journal of Computational Biology, 2012, 19, 316-336.	1.6	11
10	SHOCK PHYSICS DATA RECONSTRUCTION USING SUPPORT VECTOR REGRESSION. International Journal of Modern Physics C, 2006, 17, 1313-1325.	1.7	10
11	Childrenâ€™s erythrocyte fatty acids are associated with the risk of islet autoimmunity. Scientific Reports, 2021, 11, 3627.	3.3	10
12	Markov Logic Networks in the Analysis of Genetic Data. Journal of Computational Biology, 2010, 17, 1491-1508.	1.6	9
13	Complexity of networks II: The set complexity of edgeâ€colored graphs. Complexity, 2012, 17, 23-36.	1.6	9
14	The Information Content of Discrete Functions and Their Application in Genetic Data Analysis. Journal of Computational Biology, 2017, 24, 1153-1178.	1.6	9
15	Complex genetic dependencies among growth and neurological phenotypes in healthy children: Towards deciphering developmental mechanisms. PLoS ONE, 2020, 15, e0242684.	2.5	9
16	Modeling bias and variation in the stochastic processes of small RNA sequencing. Nucleic Acids Research, 2017, 45, e104-e104.	14.5	7
17	Symmetries among Multivariate Information Measures Explored Using MÃ¶bius Operators. Entropy, 2019, 21, 88.	2.2	7
18	Relations between the set-complexity and the structure of graphs and their sub-graphs. Eurasip Journal on Bioinformatics and Systems Biology, 2012, 2012, 13.	1.4	6

#	Article	IF	Citations
19	Partial Information Decomposition and the Information Delta: A Geometric Unification Disentangling Non-Pairwise Information. Entropy, 2020, 22, 1333.	2.2	4
20	Toward an Information Theory of Quantitative Genetics. Journal of Computational Biology, 2021, 28, 527-559.	1.6	4
21	Automatic Generation of Generalization Lemmas for Proving Properties of Tail-Recursive Definitions. Lecture Notes in Computer Science, 2003, , 136-154.	1.3	3
22	Complexity and Vulnerability Analysis of the C. Elegans Gap Junction Connectome. Entropy, 2017, 19, 104.	2.2	3
23	Multivariate Analysis of Data Sets with Missing Values: An Information Theory-Based Reliability Function. Journal of Computational Biology, 2019, 26, 152-171.	1.6	3
24	Cerebrospinal Fluid MicroRNA Changes in Cognitively Normal Veterans With a History of Deployment-Associated Mild Traumatic Brain Injury. Frontiers in Neuroscience, 2021, 15, 720778.	2.8	3
25	Computational Inference Software for Tetrad Assembly from Randomly Arrayed Yeast Colonies. G3: Genes, Genomes, Genetics, 2019, 9, 2071-2088.	1.8	2
26	Optimized permutation testing for information theoretic measures of multi-gene interactions. BMC Bioinformatics, 2021, 22, 180.	2.6	2
27	PREDICTIONS AND DIAGNOSTICS IN EXPERIMENTAL DATA USING SUPPORT VECTOR REGRESSION. International Journal on Artificial Intelligence Tools, 2009, 18, 163-171.	1.0	1
28	Model Failure and Context Switching Using Logic-Based Stochastic Models. Journal of Computer Science and Technology, 2010, 25, 665-680.	1.5	1