

François Laviolette

List of Publications by Year in descending order

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39
papers

3,006
citations

516710

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414414

32
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42
all docs

42
docs citations

42
times ranked

5067
citing authors

#	ARTICLE	IF	CITATIONS
1	Assemblathon 2: evaluating de novo methods of genome assembly in three vertebrate species. <i>GigaScience</i> , 2013, 2, 10.	6.4	582
2	Ray Meta: scalable de novo metagenome assembly and profiling. <i>Genome Biology</i> , 2012, 13, R122.	9.6	549
3	Ray: Simultaneous Assembly of Reads from a Mix of High-Throughput Sequencing Technologies. <i>Journal of Computational Biology</i> , 2010, 17, 1519-1533.	1.6	490
4	Deep Learning for Electromyographic Hand Gesture Signal Classification Using Transfer Learning. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2019, 27, 760-771.	4.9	440
5	Transfer learning for sEMG hand gestures recognition using convolutional neural networks. , 2017, , .		107
6	Predictive computational phenotyping and biomarker discovery using reference-free genome comparisons. <i>BMC Genomics</i> , 2016, 17, 754.	2.8	97
7	Interpretable genotype-to-phenotype classifiers with performance guarantees. <i>Scientific Reports</i> , 2019, 9, 4071.	3.3	75
8	Interpreting Deep Learning Features for Myoelectric Control: A Comparison With Handcrafted Features. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 158.	4.1	65
9	Approximate Analysis of Probabilistic Processes: Logic, Simulation and Games. , 2008, , .		64
10	Bisimulation and cocongruence for probabilistic systems. <i>Information and Computation</i> , 2006, 204, 503-523.	0.7	62
11	MHC-NP: Predicting peptides naturally processed by the MHC. <i>Journal of Immunological Methods</i> , 2013, 400-401, 30-36.	1.4	57
12	PAC-Bayesian learning of linear classifiers. , 2009, , .		53
13	A convolutional neural network for robotic arm guidance using sEMG based frequency-features. , 2016, , .		52
14	A Low-Cost, Wireless, 3-D-Printed Custom Armband for sEMG Hand Gesture Recognition. <i>Sensors</i> , 2019, 19, 2811.	3.8	51
15	Machine Learning Assisted Design of Highly Active Peptides for Drug Discovery. <i>PLoS Computational Biology</i> , 2015, 11, e1004074.	3.2	45
16	Unsupervised Domain Adversarial Self-Calibration for Electromyography-Based Gesture Recognition. <i>IEEE Access</i> , 2020, 8, 177941-177955.	4.2	35
17	Learning a peptide-protein binding affinity predictor with kernel ridge regression. <i>BMC Bioinformatics</i> , 2013, 14, 82.	2.6	33
18	PAC-Bayesian Inequalities for Martingales. <i>IEEE Transactions on Information Theory</i> , 2012, 58, 7086-7093.	2.4	22

#	ARTICLE	IF	CITATIONS
19	Phenetic Comparison of Prokaryotic Genomes Using k-mers. <i>Molecular Biology and Evolution</i> , 2017, 34, 2716-2729.	8.9	20
20	On constructible graphs, infinite bridged graphs and weakly cop-win graphs. <i>Discrete Mathematics</i> , 2000, 224, 61-78.	0.7	19
21	On cop-win graphs. <i>Discrete Mathematics</i> , 2002, 258, 27-41.	0.7	17
22	Distribution-Dependent PAC-Bayes Priors. <i>Lecture Notes in Computer Science</i> , 2010, , 119-133.	1.3	15
23	Decompositions of infinite graphs: bond-faithful decompositions. <i>Journal of Combinatorial Theory Series B</i> , 2005, 94, 259-277.	1.0	7
24	Edge-Ends in Countable Graphs. <i>Journal of Combinatorial Theory Series B</i> , 1997, 70, 225-244.	1.0	6
25	Learning the set covering machine by bound minimization and margin-sparsity trade-off. <i>Machine Learning</i> , 2010, 78, 175-201.	5.4	6
26	Decompositions of infinite graphs: Part II circuit decompositions. <i>Journal of Combinatorial Theory Series B</i> , 2005, 94, 278-333.	1.0	4
27	Exploring polypharmacy with artificial intelligence: data analysis protocol. <i>BMC Medical Informatics and Decision Making</i> , 2021, 21, 219.	3.0	4
28	Decomposition of infinite eulerian graphs with a small number of vertices of infinite degree. <i>Discrete Mathematics</i> , 1994, 130, 83-87.	0.7	3
29	A logical duality for underspecified probabilistic systems. <i>Information and Computation</i> , 2011, 209, 850-871.	0.7	3
30	Towards the use of consumer-grade electromyographic armbands for interactive, artistic robotics performances. , 2017, , .		3
31	A Demonic Approach to Information in Probabilistic Systems. <i>Lecture Notes in Computer Science</i> , 2009, , 289-304.	1.3	3
32	On the robustness of generalization of drug-drug interaction models. <i>BMC Bioinformatics</i> , 2021, 22, 477.	2.6	3
33	Spanning trees of countable graphs omitting sets of dominated ends. <i>Discrete Mathematics</i> , 1999, 194, 151-172.	0.7	2
34	Time Adaptive Dual Particle Swarm Optimization. , 2017, , .		2
35	Human Analysts at Superhuman Scales: What Has Friendly Software To Do?. <i>Big Data</i> , 2013, 1, 227-236.	3.4	1
36	Risk upper bounds for general ensemble methods with an application to multiclass classification. <i>Neurocomputing</i> , 2017, 219, 15-25.	5.9	1

#	ARTICLE	IF	CITATIONS
37	Fast greedy $\{C\}$ -bound minimization with guarantees. Machine Learning, 2020, 109, 1945-1986.	5.4	1
38	The Countable Character of Uncountable Graphs. Electronic Notes in Theoretical Computer Science, 2004, 87, 205-224.	0.9	0
39	Testing probabilistic equivalence through Reinforcement Learning. Information and Computation, 2013, 227, 21-57.	0.7	0