FranÃ§ois Laviolette

List of Publications by Year
in descending order

39 papers	**3,006** citations	516710 **16** h-index	414414 **32** g-index
42 all docs	**42** docs citations	**42** times ranked	**5067** citing authors

#	Article	IF	Citations
1	Exploring polypharmacy with artificial intelligence: data analysis protocol. BMC Medical Informatics and Decision Making, 2021, 21, 219.	3.0	4
2	On the robustness of generalization of drugâ€"drug interaction models. BMC Bioinformatics, 2021, 22, 477.	2.6	3
3	Unsupervised Domain Adversarial Self-Calibration for Electromyography-Based Gesture Recognition. IEEE Access, 2020, 8, 177941-177955.	4.2	35
4	Fast greedy $\mathcal{C}$-bound minimization with guarantees. Machine Learning, 2020, 109, 1945-1986.	5.4	1
5	Interpreting Deep Learning Features for Myoelectric Control: A Comparison With Handcrafted Features. Frontiers in Bioengineering and Biotechnology, 2020, 8, 158.	4.1	65
6	A Low-Cost, Wireless, 3-D-Printed Custom Armband for sEMG Hand Gesture Recognition. Sensors, 2019, 19, 2811.	3.8	51
7	Interpretable genotype-to-phenotype classifiers with performance guarantees. Scientific Reports, 2019, 9, 4071.	3.3	75
8	Deep Learning for Electromyographic Hand Gesture Signal Classification Using Transfer Learning. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2019, 27, 760-771.	4.9	440
9	Phenetic Comparison of Prokaryotic Genomes Using k-mers. Molecular Biology and Evolution, 2017, 34, 2716-2729.	8.9	20
10	Time Adaptive Dual Particle Swarm Optimization. , 2017, , .		2
11	Risk upper bounds for general ensemble methods with an application to multiclass classification. Neurocomputing, 2017, 219, 15-25.	5.9	1
12	Transfer learning for sEMG hand gestures recognition using convolutional neural networks. , 2017, , .		107
13	Towards the use of consumer-grade electromyographic armbands for interactive, artistic robotics performances. , 2017, , .		3
14	Predictive computational phenotyping and biomarker discovery using reference-free genome comparisons. BMC Genomics, 2016, 17, 754.	2.8	97
15	A convolutional neural network for robotic arm guidance using sEMG based frequency-features. , 2016, , .		52
16	Machine Learning Assisted Design of Highly Active Peptides for Drug Discovery. PLoS Computational Biology, 2015, 11, e1004074.	3.2	45
17	Learning a peptide-protein binding affinity predictor with kernel ridge regression. BMC Bioinformatics, 2013, 14, 82.	2.6	33
18	Assemblathon 2: evaluating de novo methods of genome assembly in three vertebrate species. GigaScience, 2013, 2, 10.	6.4	582

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19	Human Analysts at Superhuman Scales: What Has Friendly Software To Do?. Big Data, 2013, 1, 227-236.	3.4	1
20	MHC-NP: Predicting peptides naturally processed by the MHC. Journal of Immunological Methods, 2013, 400-401, 30-36.	1.4	57
21	Testing probabilistic equivalence through Reinforcement Learning. Information and Computation, 2013, 227, 21-57.	0.7	0
22	PAC-Bayesian Inequalities for Martingales. IEEE Transactions on Information Theory, 2012, 58, 7086-7093.	2.4	22
23	Ray Meta: scalable de novo metagenome assembly and profiling. Genome Biology, 2012, 13, R122.	9.6	549
24	A logical duality for underspecified probabilistic systems. Information and Computation, 2011, 209, 850-871.	0.7	3
25	Learning the set covering machine by bound minimization and margin-sparsity trade-off. Machine Learning, 2010, 78, 175-201.	5.4	6
26	Ray: Simultaneous Assembly of Reads from a Mix of High-Throughput Sequencing Technologies. Journal of Computational Biology, 2010, 17, 1519-1533.	1.6	490
27	Distribution-Dependent PAC-Bayes Priors. Lecture Notes in Computer Science, 2010, , 119-133.	1.3	15
28	PAC-Bayesian learning of linear classifiers. , 2009, , .		53
29	A Demonic Approach to Information in Probabilistic Systems. Lecture Notes in Computer Science, 2009, , 289-304.	1.3	3
30	Approximate Analysis of Probabilistic Processes: Logic, Simulation and Games. , 2008, , .		64
31	Bisimulation and cocongruence for probabilistic systems. Information and Computation, 2006, 204, 503-523.	0.7	62
32	Decompositions of infinite graphs: Iâ€"bond-faithful decompositions. Journal of Combinatorial Theory Series B, 2005, 94, 259-277.	1.0	7
33	Decompositions of infinite graphs: Part II circuit decompositions. Journal of Combinatorial Theory Series B, 2005, 94, 278-333.	1.0	4
34	The Countable Character of Uncountable Graphs. Electronic Notes in Theoretical Computer Science, 2004, 87, 205-224.	0.9	0
35	On cop-win graphs. Discrete Mathematics, 2002, 258, 27-41.	0.7	17
36	On constructible graphs, infinite bridged graphs and weakly cop-win graphs. Discrete Mathematics, 2000, 224, 61-78.	0.7	19

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37	Spanning trees of countable graphs omitting sets of dominated ends. Discrete Mathematics, 1999, 194, 151-172.	0.7	2
38	Edge-Ends in Countable Graphs. Journal of Combinatorial Theory Series B, 1997, 70, 225-244.	1.0	6
39	Decomposition of infinite eulerian graphs with a small number of vertices of infinite degree. Discrete Mathematics, 1994, 130, 83-87.	0.7	3