

# François Laviolette

## List of Publications by Year in descending order

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39  
papers

3,006  
citations

516215

16  
h-index

414034

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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.	1.5	4
2	On the robustness of generalization of drug-drug interaction models. BMC Bioinformatics, 2021, 22, 477.	1.2	3
3	Unsupervised Domain Adversarial Self-Calibration for Electromyography-Based Gesture Recognition. IEEE Access, 2020, 8, 177941-177955.	2.6	35
4	Fast greedy $\mathcal{C}$ -bound minimization with guarantees. Machine Learning, 2020, 109, 1945-1986.	3.4	1
5	Interpreting Deep Learning Features for Myoelectric Control: A Comparison With Handcrafted Features. Frontiers in Bioengineering and Biotechnology, 2020, 8, 158.	2.0	65
6	A Low-Cost, Wireless, 3-D-Printed Custom Armband for sEMG Hand Gesture Recognition. Sensors, 2019, 19, 2811.	2.1	51
7	Interpretable genotype-to-phenotype classifiers with performance guarantees. Scientific Reports, 2019, 9, 4071.	1.6	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.	2.7	440
9	Phenetic Comparison of Prokaryotic Genomes Using k-mers. Molecular Biology and Evolution, 2017, 34, 2716-2729.	3.5	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.	3.5	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.	1.2	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.	1.5	45
17	Learning a peptide-protein binding affinity predictor with kernel ridge regression. BMC Bioinformatics, 2013, 14, 82.	1.2	33
18	Assemblathon 2: evaluating de novo methods of genome assembly in three vertebrate species. GigaScience, 2013, 2, 10.	3.3	582

#	ARTICLE	IF	CITATIONS
19	Human Analysts at Superhuman Scales: What Has Friendly Software To Do?. <i>Big Data</i> , 2013, 1, 227-236.	2.1	1
20	MHC-NP: Predicting peptides naturally processed by the MHC. <i>Journal of Immunological Methods</i> , 2013, 400-401, 30-36.	0.6	57
21	Testing probabilistic equivalence through Reinforcement Learning. <i>Information and Computation</i> , 2013, 227, 21-57.	0.5	0
22	PAC-Bayesian Inequalities for Martingales. <i>IEEE Transactions on Information Theory</i> , 2012, 58, 7086-7093.	1.5	22
23	Ray Meta: scalable de novo metagenome assembly and profiling. <i>Genome Biology</i> , 2012, 13, R122.	13.9	549
24	A logical duality for underspecified probabilistic systems. <i>Information and Computation</i> , 2011, 209, 850-871.	0.5	3
25	Learning the set covering machine by bound minimization and margin-sparsity trade-off. <i>Machine Learning</i> , 2010, 78, 175-201.	3.4	6
26	Ray: Simultaneous Assembly of Reads from a Mix of High-Throughput Sequencing Technologies. <i>Journal of Computational Biology</i> , 2010, 17, 1519-1533.	0.8	490
27	Distribution-Dependent PAC-Bayes Priors. <i>Lecture Notes in Computer Science</i> , 2010, , 119-133.	1.0	15
28	PAC-Bayesian learning of linear classifiers. , 2009, , .		53
29	A Demonic Approach to Information in Probabilistic Systems. <i>Lecture Notes in Computer Science</i> , 2009, , 289-304.	1.0	3
30	Approximate Analysis of Probabilistic Processes: Logic, Simulation and Games. , 2008, , .		64
31	Bisimulation and cocongruence for probabilistic systems. <i>Information and Computation</i> , 2006, 204, 503-523.	0.5	62
32	Decompositions of infinite graphs: bond-faithful decompositions. <i>Journal of Combinatorial Theory Series B</i> , 2005, 94, 259-277.	0.6	7
33	Decompositions of infinite graphs: Part II circuit decompositions. <i>Journal of Combinatorial Theory Series B</i> , 2005, 94, 278-333.	0.6	4
34	The Countable Character of Uncountable Graphs. <i>Electronic Notes in Theoretical Computer Science</i> , 2004, 87, 205-224.	0.9	0
35	On cop-win graphs. <i>Discrete Mathematics</i> , 2002, 258, 27-41.	0.4	17
36	On constructible graphs, infinite bridged graphs and weakly cop-win graphs. <i>Discrete Mathematics</i> , 2000, 224, 61-78.	0.4	19

#	ARTICLE	IF	CITATIONS
37	Spanning trees of countable graphs omitting sets of dominated ends. Discrete Mathematics, 1999, 194, 151-172.	0.4	2
38	Edge-Ends in Countable Graphs. Journal of Combinatorial Theory Series B, 1997, 70, 225-244.	0.6	6
39	Decomposition of infinite eulerian graphs with a small number of vertices of infinite degree. Discrete Mathematics, 1994, 130, 83-87.	0.4	3