Gilles Louppe

List of Publications by Year
in descending order

22 papers	1,340 citations	758635 12 h-index	839053 18 g-index
22 all docs	22 docs citations	22 times ranked	4080 citing authors

#	Article	IF	Citations
1	The frontier of simulation-based inference. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 30055-30062.	3.3	289
2	Robust EEG-based cross-site and cross-protocol classification of states of consciousness. Brain, 2018, 141, 3179-3192.	3.7	213
3	Collaborative analysis of multi-gigapixel imaging data using Cytomine. Bioinformatics, 2016, 32, 1395-1401.	1.8	140
4	Machine Learning in High Energy Physics Community White Paper. Journal of Physics: Conference Series, 2018, 1085, 022008.	0.3	94
5	Constraining Effective Field Theories with Machine Learning. Physical Review Letters, 2018, 121, 111801.	2.9	93
6	QCD-aware recursive neural networks for jet physics. Journal of High Energy Physics, 2019, 2019, 1.	1.6	93
7	A guide to constraining effective field theories with machine learning. Physical Review D, 2018, 98, .	1.6	73
8	Exploiting SNP Correlations within Random Forest for Genome-Wide Association Studies. PLoS ONE, 2014, 9, e93379.	1.1	69
9	Ensembles on Random Patches. Lecture Notes in Computer Science, 2012, , 346-361.	1.0	69
10	Mining gold from implicit models to improve likelihood-free inference. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 5242-5249.	3.3	59
11	Ethnicity Sensitive Author Disambiguation Using Semi-supervised Learning. Communications in Computer and Information Science, 2016, , 272-287.	0.4	47
12	Mining for Dark Matter Substructure: Inferring Subhalo Population Properties from Strong Lenses with Machine Learning. Astrophysical Journal, 2019, 886, 49.	1.6	43
13	Etalumis. , 2019, , .		17
14	Toward Machine Learning Optimization of Experimental Design. Nuclear Physics News, 2021, 31, 25-28.	0.1	8
15	Towards constraining warm dark matter with stellar streams through neural simulation-based inference. Monthly Notices of the Royal Astronomical Society, 2021, 507, 1999-2011.	1.6	8
16	carl: a likelihood-free inference toolbox. Journal of Open Source Software, 2016, 1, 11.	2.0	8
17	A hybrid human-computer approach for large-scale image-based measurements using web services and machine learning. , 2014, , .		5
18	Experiments using machine learning to approximate likelihood ratios for mixture models. Journal of Physics: Conference Series, 2016, 762, 012034.	0.3	4

#	Article	IF	Citations
19	Simple Connectome Inference from Partial Correlation Statistics in Calcium Imaging. The Springer Series on Challenges in Machine Learning, 2017, , 23-36.	10.4	3
20	Deep learning-based focal plane wavefront sensing for classical and coronagraphic imaging. , 2020, , .		3
21	Constraining effective field theories with machine learning. EPJ Web of Conferences, 2020, 245, 06026.	0.1	2
22	The Deep Quality-Value Family of Deep Reinforcement Learning Algorithms. , 2020, , .		0