Zoubin Ghahramani

List of Publications by Year
in descending order

35 papers	9,584 citations	331670 21 h-index	501196 28 g-index
37 all docs	37 docs citations	37 times ranked	9164 citing authors

#	ARTICLE	IF	CITATIONS
1	An Introduction to Variational Methods for Graphical Models. Machine Learning, 1999, 37, 183-233.	5.4	1,889
2	Computational principles of movement neuroscience. Nature Neuroscience, 2000, 3, 1212-1217.	14.8	1,709
3	Probabilistic machine learning and artificial intelligence. Nature, 2015, 521, 452-459.	27.8	1,287
4	Factorial Hidden Markov Models. Machine Learning, 1997, 29, 245-273.	5.4	674
5	Perspectives and problems in motor learning. Trends in Cognitive Sciences, 2001, 5, 487-494.	7.8	667
6	A Unifying Review of Linear Gaussian Models. Neural Computation, 1999, 11, 305-345.	2.2	600
7	AN INTRODUCTION TO HIDDEN MARKOV MODELS AND BAYESIAN NETWORKS. International Journal of Pattern Recognition and Artificial Intelligence, 2001, 15, 9-42.	1.2	459
8	SMEM Algorithm for Mixture Models. Neural Computation, 2000, 12, 2109-2128.	2.2	323
9	Variational Learning for Switching State-Space Models. Neural Computation, 2000, 12, 831-864.	2.2	269
10	A Bayesian approach to reconstructing genetic regulatory networks with hidden factors. Bioinformatics, 2005, 21, 349-356.	4.1	247
11	Modular decomposition in visuomotor learning. Nature, 1997, 386, 392-395.	27.8	204
12	Modeling T-cell activation using gene expression profiling and state-space models. Bioinformatics, 2004, 20, 1361-1372.	4.1	193
13	Generative models for discovering sparse distributed representations. Philosophical Transactions of the Royal Society B: Biological Sciences, 1997, 352, 1177-1190.	4.0	191
14	Generalization to Local Remappings of the Visuomotor Coordinate Transformation. Journal of Neuroscience, 1996, 16, 7085-7096.	3.6	166
15	Metropolis Algorithms for Representative Subgraph Sampling. , 2008, , .		84
16	A Robust Bayesian Two-Sample Test for Detecting Intervals of Differential Gene Expression in Microarray Time Series. Journal of Computational Biology, 2010, 17, 355-367.	1.6	84
17	Bayesian non-parametrics and the probabilistic approach to modelling. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2013, 371, 20110553.	3.4	69
18	Flexible latent variable models for multi-task learning. Machine Learning, 2008, 73, 221-242.	5.4	67

#	Article	IF	Citations
19	AN INTRODUCTION TO HIDDEN MARKOV MODELS AND BAYESIAN NETWORKS. Series in Machine Perception and Artificial Intelligence, 2001, , 9-41.	0.1	53
20	Learning Nonlinear Dynamical Systems Using the Expectation-Maximization Algorithm. , 0, , 175-220.		35
21	Split and Merge EM Algorithm for Improving Gaussian Mixture Density Estimates. Journal of Signal Processing Systems, 2000, 26, 133-140.	1.0	32
22	Modeling and Visualizing Uncertainty in Gene Expression Clusters Using Dirichlet Process Mixtures. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2009, 6, 615-628.	3.0	26
23	The Automatic Statistician. The Springer Series on Challenges in Machine Learning, 2019, , 161-173.	10.4	16
24	Building blocks of movement. Nature, 2000, 407, 682-683.	27.8	15
25	Outlier Robust Gaussian Process Classification. Lecture Notes in Computer Science, 2008, , 896-905.	1.3	9
26	Fast online anomaly detection using scan statistics. , 2010, , .		8
27	IDENTIFYING PROTEIN COMPLEXES IN HIGH-THROUGHPUT PROTEIN INTERACTION SCREENS USING AN INFINITE LATENT FEATURE MODEL. , 2005, , .		7
28	Branch-recombinant Gaussian processes for analysis of perturbations in biological time series. Bioinformatics, 2018, 34, i1005-i1013.	4.1	7
29	Modeling Genetic Regulatory Networks using Gene Expression Profiling and State-Space Models. , 2005, , 269-293.		5
30	Ranking relations using analogies in biological and information networks. Annals of Applied Statistics, 2010, 4, 615-644.	1.1	3
31	Scaling the iHMM: Parallelization versus Hadoop. , 2010, , .		2
32	The Dynamic Beamformer. Lecture Notes in Computer Science, 2012, , 148-155.	1.3	1
33	A Robust Bayesian Two-Sample Test for Detecting Intervals of Differential Gene Expression in Microarray Time Series. Lecture Notes in Computer Science, 2009, , 201-216.	1.3	1
34	Improving PPM with Dynamic Parameter Updates. , 2015, , .		0
35	Reconstructing Transcriptional Networks Using Gene Expression Profiling and Bayesian State-Space Models. , 2007, , 217-241.		0