

# Manfred Opper

## List of Publications by Year in descending order

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Version: 2024-02-01

21  
papers

427  
citations

1163117

8  
h-index

752698

20  
g-index

22  
all docs

22  
docs citations

22  
times ranked

393  
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimal control as a graphical model inference problem. <i>Machine Learning</i> , 2012, 87, 159-182.	5.4	165
2	The Variational Gaussian Approximation Revisited. <i>Neural Computation</i> , 2009, 21, 786-792.	2.2	119
3	Approximate Bayes learning of stochastic differential equations. <i>Physical Review E</i> , 2018, 98, 022109.	2.1	19
4	Variational mean-field algorithm for efficient inference in large systems of stochastic differential equations. <i>Physical Review E</i> , 2015, 91, 012148.	2.1	15
5	Estimating parameters in stochastic systems: A variational Bayesian approach. <i>Physica D: Nonlinear Phenomena</i> , 2011, 240, 1877-1900.	2.8	14
6	Memory-free dynamics for the Thouless-Anderson-Palmer equations of Ising models with arbitrary rotation-invariant ensembles of random coupling matrices. <i>Physical Review E</i> , 2019, 99, 062140.	2.1	13
7	Variational estimation of the drift for stochastic differential equations from the empirical density. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2016, 2016, 083404.	2.3	12
8	Variational Inference for Stochastic Differential Equations. <i>Annalen Der Physik</i> , 2019, 531, 1800233.	2.4	12
9	A mathematical model of local and global attention in natural scene viewing. <i>PLoS Computational Biology</i> , 2020, 16, e1007880.	3.2	10
10	Expectation propagation for continuous time stochastic processes. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2016, 49, 494002.	2.1	8
11	Interacting Particle Solutions of Fokker-Planck Equations Through Gradient-Log-Density Estimation. <i>Entropy</i> , 2020, 22, 802.	2.2	7
12	GP-ETAS: semiparametric Bayesian inference for the spatio-temporal epidemic type aftershock sequence model. <i>Statistics and Computing</i> , 2022, 32, 1.	1.5	7
13	Variational Markov chain Monte Carlo for Bayesian smoothing of non-linear diffusions. <i>Computational Statistics</i> , 2012, 27, 149-176.	1.5	6
14	A Comparison of Variational and Markov Chain Monte Carlo Methods for Inference in Partially Observed Stochastic Dynamic Systems. <i>Journal of Signal Processing Systems</i> , 2010, 61, 51-59.	2.1	5
15	Dynamic state estimation based on Poisson spike trains towards a theory of optimal encoding. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2013, 2013, P03009.	2.3	4
16	Variational Bayesian Inference for Nonlinear Hawkes Process with Gaussian Process Self-Effects. <i>Entropy</i> , 2022, 24, 356.	2.2	4
17	Flexible and Efficient Inference with Particles for the Variational Gaussian Approximation. <i>Entropy</i> , 2021, 23, 990.	2.2	3
18	Optimal Decoding of Dynamic Stimuli by Heterogeneous Populations of Spiking Neurons: A Closed-Form Approximation. <i>Neural Computation</i> , 2018, 30, 2056-2112.	2.2	2

#	ARTICLE	IF	CITATIONS
19	Visualizing the effects of a changing distance on data using continuous embeddings. Computational Statistics and Data Analysis, 2016, 104, 51-65.	1.2	1
20	Exact solution to the random sequential dynamics of a message passing algorithm. Physical Review E, 2021, 103, L030101.	2.1	1
21	Optimal encoding and decoding for point process observations: An approximate closed-form filter. , 2016, , .		0