Ankit Gupta

List of Publications by Year in descending order

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ANKIT CUDTA

#	Article	IF	CITATIONS
1	Antithetic Integral Feedback Ensures Robust Perfect Adaptation in Noisy Biomolecular Networks. Cell Systems, 2016, 2, 15-26.	6.2	320
2	A universal biomolecular integral feedback controller for robust perfect adaptation. Nature, 2019, 570, 533-537.	27.8	249
3	A Scalable Computational Framework for Establishing Long-Term Behavior of Stochastic Reaction Networks. PLoS Computational Biology, 2014, 10, e1003669.	3.2	77
4	Antithetic proportional-integral feedback for reduced variance and improved control performance of stochastic reaction networks. Journal of the Royal Society Interface, 2018, 15, 20180079.	3.4	71
5	A finite state projection algorithm for the stationary solution of the chemical master equation. Journal of Chemical Physics, 2017, 147, 154101.	3.0	49
6	Adaptive hybrid simulations for multiscale stochastic reaction networks. Journal of Chemical Physics, 2015, 142, 034118.	3.0	43
7	Noise Induces the Population-Level Entrainment of Incoherent, Uncoupled Intracellular Oscillators. Cell Systems, 2016, 3, 521-531.e13.	6.2	27
8	Unbiased Estimation of Parameter Sensitivities for Stochastic Chemical Reaction Networks. SIAM Journal of Scientific Computing, 2013, 35, A2598-A2620.	2.8	20
9	An efficient and unbiased method for sensitivity analysis of stochastic reaction networks. Journal of the Royal Society Interface, 2014, 11, 20140979.	3.4	19
10	Computational Identification of Irreducible State-Spaces for Stochastic Reaction Networks. SIAM Journal on Applied Dynamical Systems, 2018, 17, 1213-1266.	1.6	17
11	An antithetic integral rein controller for bio-molecular networks. , 2019, , .		17
12	DeepCME: A deep learning framework for computing solution statistics of the chemical master equation. PLoS Computational Biology, 2021, 17, e1009623.	3.2	17
13	Sensitivity analysis for stochastic chemical reaction networks with multiple time-scales. Electronic Journal of Probability, 2014, 19, .	1.0	16
14	A hidden integral structure endows absolute concentration robust systems with resilience to dynamical concentration disturbances. Journal of the Royal Society Interface, 2020, 17, 20200437.	3.4	15
15	The probability distribution of the reconstructed phylogenetic tree with occurrence data. Journal of Theoretical Biology, 2020, 488, 110115.	1.7	13
16	Dynamic disorder in simple enzymatic reactions induces stochastic amplification of substrate. Journal of the Royal Society Interface, 2017, 14, 20170311.	3.4	12
17	The probability distribution of the ancestral population size conditioned on the reconstructed phylogenetic tree with occurrence data. Journal of Theoretical Biology, 2021, 509, 110400.	1.7	12
18	The Occurrence Birth–Death Process for Combined-Evidence Analysis in Macroevolution and Epidemiology. Systematic Biology, 2022, 71, 1440-1452.	5.6	10

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19	Determining the long-term behavior of cell populations: A new procedure for detecting ergodicity in large stochastic reaction networks. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 1711-1716.	0.4	8
20	Estimation of Parameter Sensitivities for Stochastic Reaction Networks Using Tau-Leap Simulations. SIAM Journal on Numerical Analysis, 2018, 56, 1134-1167.	2.3	7
21	Sensitivity Analysis for Multiscale Stochastic Reaction Networks Using Hybrid Approximations. Bulletin of Mathematical Biology, 2019, 81, 3121-3158.	1.9	7
22	Stochastic model for cell polarity. Annals of Applied Probability, 2012, 22, .	1.3	6
23	Stochastic filtering for multiscale stochastic reaction networks based on hybrid approximations. Journal of Computational Physics, 2022, 467, 111441.	3.8	6
24	A finite state projection method for steady-state sensitivity analysis of stochastic reaction networks. Journal of Chemical Physics, 2019, 150, 134101.	3.0	4
25	Bayesian Parameter Estimation for Stochastic Reaction Networks from Steady-State Observations. Lecture Notes in Computer Science, 2019, , 342-346.	1.3	2
26	The Fleming-Viot limit of an interacting spatial population with fast density regulation. Electronic Journal of Probability, 2012, 17, .	1.0	0
27	Variance reduction in stochastic gene expression under integral feedback control. , 2018, , .		0
28	Quantification of loading effects in interconnections of stochastic reaction networks. , 2019, , .		0
29	A linear constrained integral feedback for a class of reaction systems with absolute concentration		0