

# Amarjit Budhiraja

## List of Publications by Year in descending order

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Version: 2024-02-01

61  
papers

1,243  
citations

430442

18  
h-index

395343

33  
g-index

62  
all docs

62  
docs citations

62  
times ranked

554  
citing authors

#	ARTICLE	IF	CITATIONS
1	Large deviations for infinite dimensional stochastic dynamical systems. <i>Annals of Probability</i> , 2008, 36, .	0.8	167
2	A survey of numerical methods for nonlinear filtering problems. <i>Physica D: Nonlinear Phenomena</i> , 2007, 230, 27-36.	1.3	82
3	Variational representations for continuous time processes. <i>Annales De L'institut Henri Poincare (B) Probability and Statistics</i> , 2011, 47, .	0.7	80
4	Large deviations for stochastic partial differential equations driven by a Poisson random measure. <i>Stochastic Processes and Their Applications</i> , 2013, 123, 523-560.	0.4	73
5	Stability Properties of Constrained Jump-Diffusion Processes. <i>Electronic Journal of Probability</i> , 2002, 7, 1.	0.5	70
6	Stationary Distribution Convergence for Generalized Jackson Networks in Heavy Traffic. <i>Mathematics of Operations Research</i> , 2009, 34, 45-56.	0.8	60
7	Large deviation properties of weakly interacting processes via weak convergence methods. <i>Annals of Probability</i> , 2012, 40, .	0.8	58
8	Diffusion approximations for controlled stochastic networks: An asymptotic bound for the value function. <i>Annals of Applied Probability</i> , 2006, 16, 1962.	0.6	55
9	Analysis and Approximation of Rare Events. <i>Probability Theory and Stochastic Modelling</i> , 2019, , .	0.4	45
10	Moderate deviation principles for stochastic differential equations with jumps. <i>Annals of Probability</i> , 2016, 44, .	0.8	41
11	On Positive Recurrence of Constrained Diffusion Processes. <i>Annals of Probability</i> , 2001, 29, 979.	0.8	39
12	Long time asymptotics for constrained diffusions in polyhedral domains. <i>Stochastic Processes and Their Applications</i> , 2007, 117, 1014-1036.	0.4	37
13	Simple Necessary and Sufficient Conditions for the Stability of Constrained Processes. <i>SIAM Journal on Applied Mathematics</i> , 1999, 59, 1686-1700.	0.8	34
14	Modified particle filter methods for assimilating Lagrangian data into a point-vortex model. <i>Physica D: Nonlinear Phenomena</i> , 2008, 237, 1498-1506.	1.3	30
15	Large deviations for stochastic flows of diffeomorphisms. <i>Bernoulli</i> , 2010, 16, .	0.7	27
16	A large deviations approach to asymptotically optimal control of crisscross network in heavy traffic. <i>Annals of Applied Probability</i> , 2005, 15, 1887.	0.6	25
17	Weakly interacting particle systems on inhomogeneous random graphs. <i>Stochastic Processes and Their Applications</i> , 2019, 129, 2174-2206.	0.4	24
18	Ergodic Control for Constrained Diffusions: Characterization Using HJB Equations. <i>SIAM Journal on Control and Optimization</i> , 2004, 43, 1467-1492.	1.1	22

#	ARTICLE	IF	CITATIONS
19	Confidence Regions for Stochastic Variational Inequalities. <i>Mathematics of Operations Research</i> , 2013, 38, 545-568.	0.8	21
20	Ergodic Rate Control Problem for Single Class Queueing Networks. <i>SIAM Journal on Control and Optimization</i> , 2011, 49, 1570-1606.	1.1	19
21	The augmented multiplicative coalescent, bounded size rules and critical dynamics of random graphs. <i>Probability Theory and Related Fields</i> , 2014, 160, 733-796.	0.9	19
22	Scheduling control for Markov-modulated single-server multiclass queueing systems in heavy traffic. <i>Queueing Systems</i> , 2014, 78, 57-97.	0.6	18
23	A further remark on dynamic programming for partially observed Markov processes. <i>Stochastic Processes and Their Applications</i> , 2004, 112, 79-93.	0.4	16
24	Singular control with state constraints on unbounded domain. <i>Annals of Probability</i> , 2006, 34, 1864.	0.8	15
25	Individual confidence intervals for solutions to expected value formulations of stochastic variational inequalities. <i>Mathematical Programming</i> , 2017, 165, 151-196.	1.6	14
26	Uniform large deviation principles for Banach space valued stochastic evolution equations. <i>Transactions of the American Mathematical Society</i> , 2019, 372, 8363-8421.	0.5	13
27	A stochastic differential game for the inhomogeneous $\hat{\alpha}$ -Laplace equation. <i>Annals of Probability</i> , 2010, 38, .	0.8	11
28	Large deviations for multidimensional state-dependent shot-noise processes. <i>Journal of Applied Probability</i> , 2015, 52, 1097-1114.	0.4	10
29	Deterministic and stochastic differential inclusions with multiple surfaces of discontinuity. <i>Probability Theory and Related Fields</i> , 2008, 142, 249-283.	0.9	9
30	Exit time and invariant measure asymptotics for small noise constrained diffusions. <i>Stochastic Processes and Their Applications</i> , 2011, 121, 899-924.	0.4	9
31	On the multi-dimensional skew Brownian motion. <i>Stochastic Processes and Their Applications</i> , 2015, 125, 1911-1925.	0.4	9
32	Some fluctuation results for weakly interacting multi-type particle systems. <i>Stochastic Processes and Their Applications</i> , 2016, 126, 2253-2296.	0.4	9
33	Moderate deviation principles for weakly interacting particle systems. <i>Probability Theory and Related Fields</i> , 2017, 168, 721-771.	0.9	8
34	Aggregation models with limited choice and the multiplicative coalescent. <i>Random Structures and Algorithms</i> , 2015, 46, 55-116.	0.6	7
35	Ergodic properties of the nonlinear filter. <i>Stochastic Processes and Their Applications</i> , 2001, 95, 1-24.	0.4	6
36	Long Time Results for a Weakly Interacting Particle System in Discrete Time. <i>Stochastic Analysis and Applications</i> , 2015, 33, 429-463.	0.9	6

#	ARTICLE	IF	CITATIONS
37	Bounded-Size Rules: The Barely Subcritical Regime. <i>Combinatorics Probability and Computing</i> , 2014, 23, 505-538.	0.8	4
38	Central limit results for jump diffusions with mean field interaction and a common factor. <i>Stochastic Analysis and Applications</i> , 2017, 35, 767-802.	0.9	4
39	Diffusion approximations for load balancing mechanisms in cloud storage systems. <i>Advances in Applied Probability</i> , 2019, 51, 41-86.	0.4	4
40	Large deviations of the entropy production rate for a class of Gaussian processes. <i>Journal of Mathematical Physics</i> , 2021, 62, .	0.5	4
41	On near optimal trajectories for a game associated with the $\hat{\alpha}$ -Laplacian. <i>Probability Theory and Related Fields</i> , 2011, 151, 509-528.	0.9	3
42	Multiscale diffusion approximations for stochastic networks in heavy traffic. <i>Stochastic Processes and Their Applications</i> , 2011, 121, 630-656.	0.4	3
43	Construction of Asymptotically Optimal Control for Crisscross Network from a Free Boundary Problem. <i>Stochastic Systems</i> , 2016, 6, 459-518.	0.8	3
44	Large Deviations for Brownian Particle Systems with Killing. <i>Journal of Theoretical Probability</i> , 2018, 31, 1779-1818.	0.4	3
45	Control Policies Approaching Hierarchical Greedy Ideal Performance in Heavy Traffic for Resource Sharing Networks. <i>Mathematics of Operations Research</i> , 2020, 45, 797-832.	0.8	3
46	Robust bounds and optimization at the large deviations scale for queueing models via $\mathbb{R}^{\infty}$ nyi divergence. <i>Annals of Applied Probability</i> , 2021, 31, .	0.6	3
47	Empirical Measure and Small Noise Asymptotics Under Large Deviation Scaling for Interacting Diffusions. <i>Journal of Theoretical Probability</i> , 2022, 35, 295-349.	0.4	3
48	Parameter and dimension dependence of convergence rates to stationarity for reflecting Brownian motions. <i>Annals of Applied Probability</i> , 2020, 30, .	0.6	3
49	Stability of Constrained Markov-Modulated Diffusions. <i>Mathematics of Operations Research</i> , 2012, 37, 626-653.	0.8	2
50	Large deviations for multidimensional state-dependent shot-noise processes. <i>Journal of Applied Probability</i> , 2015, 52, 1097-1114.	0.4	2
51	Discrete time markovian agents interacting through a potential. <i>ESAIM - Probability and Statistics</i> , 2013, 17, 614-634.	0.2	2
52	Domains of attraction of invariant distributions of the infinite Atlas model. <i>Annals of Probability</i> , 2022, 50, .	0.8	2
53	Near equilibrium fluctuations for supermarket models with growing choices. <i>Annals of Applied Probability</i> , 2022, 32, .	0.6	2
54	A Numerical Scheme for Invariant Distributions of Constrained Diffusions. <i>Mathematics of Operations Research</i> , 2014, 39, 262-289.	0.8	1

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55	Augmenting Molecular Images with Vector Representations as a Featurization Technique for Drug Classification. , 2020, , .		1
56	Many-server asymptotics for join-the-shortest-queue: Large deviations and rare events. Annals of Applied Probability, 2021, 31, .	0.6	1
57	Critical random graphs and the differential equations technique. Indian Journal of Pure and Applied Mathematics, 2017, 48, 633-669.	0.3	0
58	Minimization of a class of rare event probabilities and buffered probabilities of exceedance. Annals of Operations Research, 2021, 302, 49-83.	2.6	0
59	Large Deviations for the Single-Server Queue and the Reneging Paradox. Mathematics of Operations Research, 2022, 47, 232-258.	0.8	0
60	Quasistationary distributions and ergodic control problems. Stochastic Processes and Their Applications, 2022, 145, 143-164.	0.4	0
61	Rare event asymptotics for exploration processes for random graphs. Annals of Applied Probability, 2022, 32, .	0.6	0