Michel Benaim

List of Publications by Year in descending order

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MICHEL RENAIM

#	Article	IF	CITATIONS
1	A class of mean field interaction models for computer and communication systems. Performance Evaluation, 2008, 65, 823-838.	1.2	240
2	Deterministic Approximation of Stochastic Evolution in Games. Econometrica, 2003, 71, 873-903.	4.2	215
3	Stochastic Approximations and Differential Inclusions. SIAM Journal on Control and Optimization, 2005, 44, 328-348.	2.1	180
4	A Dynamical System Approach to Stochastic Approximations. SIAM Journal on Control and Optimization, 1996, 34, 437-472.	2.1	147
5	Persistence in fluctuating environments. Journal of Mathematical Biology, 2011, 62, 655-683.	1.9	137
6	Stochastic Approximations and Differential Inclusions, Part II: Applications. Mathematics of Operations Research, 2006, 31, 673-695.	1.3	77
7	Asymptotic pseudotrajectories and chain recurrent flows, with applications. Journal of Dynamics and Differential Equations, 1996, 8, 141-176.	1.9	76
8	Qualitative properties of certain piecewise deterministic Markov processes. Annales De L'institut Henri Poincare (B) Probability and Statistics, 2015, 51, .	1.1	71
9	Persistence of structured populations in random environments. Theoretical Population Biology, 2009, 76, 19-34.	1.1	60
10	Recursive algorithms, urn processes and chaining number of chain recurrent sets. Ergodic Theory and Dynamical Systems, 1998, 18, 53-87.	0.6	50
11	Self-interacting diffusions. Probability Theory and Related Fields, 2002, 122, 1-41.	1.8	50
12	Persistence and extinction for stochastic ecological models with internal and external variables. Journal of Mathematical Biology, 2019, 79, 393-431.	1.9	46
13	Learning in games with unstable equilibria. Journal of Economic Theory, 2009, 144, 1694-1709.	1.1	45
14	Lotka–Volterra with randomly fluctuating environments or "how switching between beneficial environments can make survival harder― Annals of Applied Probability, 2016, 26, .	1.3	43
15	On Functional Approximation with Normalized Gaussian Units. Neural Computation, 1994, 6, 319-333.	2.2	42
16	Exponential concentration for first passage percolation through modified Poincaré inequalities. Annales De L'institut Henri Poincare (B) Probability and Statistics, 2008, 44, .	1.1	41
17	Quantitative ergodicity for some switched dynamical systems. Electronic Communications in Probability, 2012, 17, .	0.4	38
18	Standardization in Decentralized Economies. American Economic Review, 2000, 90, 550-570.	8.5	37

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19	Generalized URN models of evolutionary processes. Annals of Applied Probability, 2004, 14, .	1.3	37
20	Vertex-reinforced random walks and a conjecture of Pemantle. Annals of Probability, 1997, 25, 361.	1.8	36
21	Robust permanence and impermanence for stochastic replicator dynamics. Journal of Biological Dynamics, 2008, 2, 180-195.	1.7	32
22	Dynamics of Morse-Smale urn processes. Ergodic Theory and Dynamical Systems, 1995, 15, 1005-1030.	0.6	28
23	Stochastic approximation algorithms with constant step size whose average is cooperative. Annals of Applied Probability, 1999, 9, 216.	1.3	28
24	A generalized Pólya's urn with graph based interactions. Random Structures and Algorithms, 2015, 46, 614-634.	1.1	28
25	Stochastic approximation of quasi-stationary distributions on compact spaces and applications. Annals of Applied Probability, 2018, 28, .	1.3	22
26	Convergence of the one-dimensional Kohonen algorithm. Advances in Applied Probability, 1998, 30, 850-869.	0.7	21
27	Perturbations of Set-Valued Dynamical Systems, with Applications to Game Theory. Dynamic Games and Applications, 2012, 2, 195-205.	1.9	20
28	Random switching between vector fields having a common zero. Annals of Applied Probability, 2019, 29, .	1.3	19
29	Self-interacting diffusions. III. Symmetric interactions. Annals of Probability, 2005, 33, 1716.	1.8	18
30	Self-repelling diffusions via an infinite dimensional approach. Stochastics and Partial Differential Equations: Analysis and Computations, 2015, 3, 506-530.	0.9	15
31	On Invariant Hypersurfaces of Strongly Monotone Maps. Journal of Differential Equations, 1997, 137, 302-319.	2.2	13
32	Ergodic Properties of Weak Asymptotic Pseudotrajectories for Semiflows. Journal of Dynamics and Differential Equations, 2000, 12, 579-598.	1.9	12
33	Stochastic approximation, cooperative dynamics and supermodular games. Annals of Applied Probability, 2012, 22, .	1.3	12
34	A class of mean field interaction models for computer and communication systems. , 2008, , .		11
35	Chain recurrence in surface flows. Discrete and Continuous Dynamical Systems, 1995, 1, 1-16.	0.9	10
36	Metric properties of the group of area preserving diffeomorphisms. Transactions of the American Mathematical Society, 2001, 353, 4661-4672.	0.9	9

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37	Dynamics of vertex-reinforced random walks. Annals of Probability, 2011, 39, .	1.8	9
38	Consistency of Vanishingly Smooth Fictitious Play. Mathematics of Operations Research, 2013, 38, 437-450.	1.3	9
39	Convergence with probability one of stochastic approximation algorithms whose average is cooperative. Nonlinearity, 2000, 13, 601-616.	1.4	8
40	Self-repelling diffusions on a Riemannian manifold. Probability Theory and Related Fields, 2017, 169, 63-104.	1.8	6
41	A two armed bandit type problem. International Journal of Game Theory, 2003, 32, 3-16.	0.5	5
42	Smale strategies for network prisoner's dilemma games. Journal of Dynamics and Games, 2015, 2, 141-155.	1.0	5
43	A Class of Self-Interacting Processes with Applications to Games and Reinforced Random Walks. SIAM Journal on Control and Optimization, 2010, 48, 4707-4730.	2.1	4
44	Stochastic persistence in degenerate stochastic Lotka-Volterra food chains. Discrete and Continuous Dynamical Systems - Series B, 2022, 27, 6841.	0.9	4
45	Convergence Theorems for Hybrid Learning Rules. Neural Computation, 1995, 7, 19-24.	2.2	3
46	On self attracting/repelling diffusions. Comptes Rendus Mathematique, 2002, 335, 541-544.	0.3	3
47	On Gradient Like Properties of Population Games, Learning Models and Self Reinforced Processes. CIM Series in Mathematical Sciences, 2015, , 117-152.	0.4	3
48	Convergence of adaptive biasing potential methods for diffusions. Comptes Rendus Mathematique, 2016, 354, 842-846.	0.3	2
49	Convergence and oscillation in standardization games. European Journal of Economic and Social Systems, 2001, 15, 39-55.	0.2	2
50	Analysis of an Adaptive Biasing Force method based on self-interacting dynamics. Electronic Journal of Probability, 2020, 25, .	1.0	2