Xuerong Mao

List of Publications by Year in Descending Order

305 papers	14,143 citations	65 h-index	111 g-index
312 ext. papers	16,829 ext. citations	2.1 avg, IF	7.24 L-index

#	Paper	IF	Citations
305	Discrete feedback control for highly nonlinear neutral stochastic delay differential equations with Markovian switching. *Information Sciences*, **2022**, 592, 123-136	7.7	1
304	Advances in stabilization of highly nonlinear hybrid delay systems. *Automatica*, **2022**, 136, 110086	5.7	1
303	Stabilisation in distribution of hybrid stochastic differential equations by feedback control based on discrete-time state observations. *Automatica*, **2022**, 110210	5.7	1
302	Delay-dependent Asymptotic Stability of Highly Nonlinear Stochastic Differential Delay Equations Driven by G-Brownian Motion. *Journal of the Franklin Institute*, **2022**, 359, 4366-4366	4	0
301	Stabilisation of hybrid system with different structures by feedback control based on discrete-time state observations. *Nonlinear Analysis: Hybrid Systems*, **2022**, 45, 101198	4.5	
300	Exponential stabilization by delay feedback control for highly nonlinear hybrid stochastic functional differential equations with infinite delay. *Nonlinear Analysis: Hybrid Systems*, **2021**, 40, 101026	4.5	2
299	Stabilization and destabilization of hybrid systems by periodic stochastic controls. *Systems and Control Letters*, **2021**, 152, 104929	2.4	2
298	Strong convergence and asymptotic stability of explicit numerical schemes for nonlinear stochastic differential equations. *Mathematics of Computation*, **2021**, 90, 2827-2872	1.6	3
297	Truncated EM numerical method for generalised Ait-Sahalia-type interest rate model with delay. *Journal of Computational and Applied Mathematics*, **2021**, 383, 113137	2.4	1
296	On exponential stability of hybrid neutral stochastic differential delay equations with different structures. *Nonlinear Analysis: Hybrid Systems*, **2021**, 39, 100971	4.5	5
295	Tamed EM schemes for neutral stochastic differential delay equations with superlinear diffusion coefficients. *Journal of Computational and Applied Mathematics*, **2021**, 388, 113269	2.4	2
294	Aperiodic stochastic resonance in neural information processing with Gaussian colored noise. *Cognitive Neurodynamics*, **2021**, 15, 517-532	4.2	6
293	Stabilization by intermittent control for hybrid stochastic differential delay equations. *Discrete and Continuous Dynamical Systems - Series B*, **2021**, 0-0	1.3	2
292	Stabilisation in Distribution by Delay Feedback Control for Hybrid Stochastic Differential Equations. *IEEE Transactions on Automatic Control*, **2021**, 1-1	5.9	2
291	A stochastic differential equation SIS epidemic model with regime switching. *Discrete and Continuous Dynamical Systems - Series B*, **2021**, 26, 4887	1.3	3
290	Stabilization of hybrid systems by intermittent feedback controls based on discrete-time observations with a time delay. *IET Control Theory and Applications*, **2021**, 15, 2039-2052	2.5	2
289	Positivity preserving truncated Euler–Maruyama Method for stochastic Lotka–Volterra competition model. *Journal of Computational and Applied Mathematics*, **2021**, 394, 113566	2.4	7

288	Stabilization of nonlinear hybrid stochastic delay systems by feedback control based on discrete-time state and mode observations. *Applicable Analysis*, **2020**, 1-24	0.8	0
287	Advances in Stabilization of Hybrid Stochastic Differential Equations by Delay Feedback Control. *SIAM Journal on Control and Optimization*, **2020**, 58, 735-754	1.9	12
286	Stabilisation by delay feedback control for highly nonlinear neutral stochastic differential equations. *Systems and Control Letters*, **2020**, 137, 104645	2.4	10
285	Truncated Euler-Maruyama method for classical and time-changed non-autonomous stochastic differential equations. *Applied Numerical Mathematics*, **2020**, 153, 66-81	2.5	8
284	Exponential stabilisation of continuous-time periodic stochastic systems by feedback control based on periodic discrete-time observations. *IET Control Theory and Applications*, **2020**, 14, 909-919	2.5	1
283	Advances in the truncated Euler–Maruyama method for stochastic differential delay equations. *Communications on Pure and Applied Analysis*, **2020**, 19, 2081-2100	1.9	3
282	Razumikhin-type theorems on polynomial stability of hybrid stochastic systems with pantograph delay. *Discrete and Continuous Dynamical Systems - Series B*, **2020**, 25, 3217-3232	1.3	4
281	Stabilisation of highly non-linear continuous-time hybrid stochastic differential delay equations by discrete-time feedback control. *IET Control Theory and Applications*, **2020**, 14, 313-323	2.5	4
280	Stabilisation of highly nonlinear hybrid stochastic differential delay equations by delay feedback control. *Automatica*, **2020**, 112, 108657	5.7	33
279	The asymptotic stability of hybrid stochastic systems with pantograph delay and non-Gaussian Lévy noise. *Journal of the Franklin Institute*, **2020**, 357, 1174-1198	4	6
278	Stochastic delay foraging arena predator–prey system with Markov switching. *Stochastic Analysis and Applications*, **2020**, 38, 191-212	1.1	7
277	Delay Feedback Control for Switching Diffusion Systems Based on Discrete-Time Observations. *SIAM Journal on Control and Optimization*, **2020**, 58, 2900-2926	1.9	5
276	Exponential Stability of Highly Nonlinear Neutral Pantograph Stochastic Differential Equations. *Asian Journal of Control*, **2020**, 22, 436-448	1.7	17
275	Analysis of a stochastic predator-prey system with foraging arena scheme. *Stochastics*, **2020**, 92, 193-222	0.6	4
274	Stabilization of Highly Nonlinear Hybrid Systems by Feedback Control Based on Discrete-Time State Observations. *IEEE Transactions on Automatic Control*, **2020**, 65, 2899-2912	5.9	19
273	The truncated Euler–Maruyama method for stochastic differential equations with Hölder diffusion coefficients. *Journal of Computational and Applied Mathematics*, **2020**, 366, 112379	2.4	5
272	Stability in distribution of stochastic functional differential equations. *Systems and Control Letters*, **2019**, 132, 104513	2.4	5
271	Stability equivalence between the stochastic differential delay equations driven by G-Brownian motion and the Euler–Maruyama method. *Applied Mathematics Letters*, **2019**, 96, 138-146	3.5	13

270	A stochastic differential equation SIS epidemic model with two independent Brownian motions. *Journal of Mathematical Analysis and Applications*, **2019**, 474, 1536-1550	1.1	17
269	The truncated EM method for stochastic differential equations with Poisson jumps. *Journal of Computational and Applied Mathematics*, **2019**, 355, 232-257	2.4	17
268	Corrigendum to: Explicit numerical approximations for stochastic differential equations in finite and infinite horizons: truncation methods, convergence in pth moment and stability. *IMA Journal of Numerical Analysis*, **2019**, 39, 2168-2168	1.8	1
267	Boundedness and stability of highly nonlinear hybrid neutral stochastic systems with multiple delays. *Science China Information Sciences*, **2019**, 62, 1	3.4	20
266	A stochastic differential equation SIS epidemic model with two correlated Brownian motions. *Nonlinear Dynamics*, **2019**, 97, 2175-2187	5	6
265	Generalized Ait-Sahalia-type interest rate model with Poisson jumps and convergence of the numerical approximation. *Physica A: Statistical Mechanics and Its Applications*, **2019**, 533, 122057	3.3	5
264	Razumikhin-type theorem for stochastic functional differential systems via vector Lyapunov function. *Journal of Mathematical Analysis and Applications*, **2019**, 479, 1986-2006	1.1	7
263	STABILITY ANALYSIS OF HIGHLY NONLINEAR HYBRID MULTIPLE-DELAY STOCHASTIC DIFFERENTIAL EQUATIONS. *Journal of Applied Analysis and Computation*, **2019**, 9, 1053-1070	0.4	2
262	Almost sure stability with general decay rate of neutral stochastic pantograph equations with Markovian switching. *Electronic Journal of Qualitative Theory of Differential Equations*, **2019**, 1-17	0.5	7
261	Asymptotic boundedness and stability of solutions to hybrid stochastic differential equations with jumps and the Euler-Maruyama approximation. *Discrete and Continuous Dynamical Systems - Series B* , **2019**, 24, 587-613	1.3	2
260	Stabilisation by delay feedback control for highly nonlinear hybrid stochastic differential equations. *Discrete and Continuous Dynamical Systems - Series B*, **2019**, 24, 4099-4116	1.3	6
259	Generalized criteria on delay-dependent stability of highly nonlinear hybrid stochastic systems. *International Journal of Robust and Nonlinear Control*, **2019**, 29, 1201-1215	3.6	12
258	Convergence of the split-step θ-method for stochastic age-dependent population equations with Markovian switching and variable delay. *Applied Numerical Mathematics*, **2019**, 139, 15-37	2.5	4
257	Basic theory and stability analysis for neutral stochastic functional differential equations with pure jumps. *Science China Information Sciences*, **2019**, 62, 1	3.4	5
256	Stability of highly nonlinear hybrid stochastic integro-differential delay equations. *Nonlinear Analysis: Hybrid Systems*, **2019**, 31, 180-199	4.5	21
255	Explicit numerical approximations for stochastic differential equations in finite and infinite horizons: truncation methods, convergence in pth moment and stability. *IMA Journal of Numerical Analysis*, **2019**, 39, 847-892	1.8	19
254	Robust quantised control of hybrid stochastic systems based on discrete-time state and mode observations. *International Journal of Control*, **2019**, 92, 1836-1845	1.5	11
253	A note on the partially truncated Euler–Maruyama method. *Applied Numerical Mathematics*, **2018**, 130, 157-170	2.5	7

252	Stability Analysis for Continuous-Time Switched Systems With Stochastic Switching Signals. *IEEE Transactions on Automatic Control*, **2018**, 63, 3083-3090	5.9	94
251	Robust discrete-state-feedback stabilization of hybrid stochastic systems with time-varying delay based on Razumikhin technique. *Statistics and Probability Letters*, **2018**, 139, 152-161	0.6	5
250	Stability of highly nonlinear neutral stochastic differential delay equations. *Systems and Control Letters*, **2018**, 115, 1-8	2.4	34
249	The truncated Milstein method for stochastic differential equations with commutative noise. *Journal of Computational and Applied Mathematics*, **2018**, 338, 298-310	2.4	16
248	Convergence rate and stability of the truncated Euler–Maruyama method for stochastic differential equations. *Journal of Computational and Applied Mathematics*, **2018**, 337, 274-289	2.4	19
247	Multi-level Monte Carlo methods with the truncated Euler–Maruyama scheme for stochastic differential equations. *International Journal of Computer Mathematics*, **2018**, 95, 1715-1726	1.2	
246	Almost sure exponential stability of hybrid stochastic functional differential equations. *Journal of Mathematical Analysis and Applications*, **2018**, 458, 1390-1408	1.1	12
245	Stochastic prey-predator system with foraging arena scheme. *Applied Mathematical Modelling*, **2018**, 64, 357-371	4.5	20
244	Structured Robust Stability and Boundedness of Nonlinear Hybrid Delay Systems. *SIAM Journal on Control and Optimization*, **2018**, 56, 2662-2689	1.9	20
243	Approximate solutions for a class of doubly perturbed stochastic differential equations. *Advances in Difference Equations*, **2018**, 2018,	3.6	6
242	Exponential stability of the Euler-Maruyama method for neutral stochastic functional differential equations with jumps. *Science China Information Sciences*, **2018**, 61, 1	3.4	6
241	Almost sure stabilization of hybrid systems by feedback control based on discrete-time observations of mode and state. *Science China Information Sciences*, **2018**, 61, 1	3.4	16
240	The truncated Euler–Maruyama method for stochastic differential delay equations. *Numerical Algorithms*, **2018**, 78, 599-624	2.1	15
239	Research on dynamic response of explosion containment vessels. *Journal of Intelligent and Fuzzy Systems*, **2018**, 34, 1225-1234	1.6	1
238	Almost sure stability of the Euler–Maruyama method with random variable stepsize for stochastic differential equations. *Numerical Algorithms*, **2017**, 74, 573-592	2.1	11
237	The partially truncated Euler–Maruyama method and its stability and boundedness. *Applied Numerical Mathematics*, **2017**, 115, 235-251	2.5	25
236	Stabilization of Hybrid Systems by Feedback Control Based on Discrete-Time State and Mode Observations. *Asian Journal of Control*, **2017**, 19, 1943-1953	1.7	13
235	Delay dependent stability of highly nonlinear hybrid stochastic systems. *Automatica*, **2017**, 82, 165-170	5.7	57

234	Neutral stochastic functional differential equations with Lévy jumps under the local Lipschitz condition. *Advances in Difference Equations*, **2017**, 2017,	3.6	2
233	On pth moment stabilization of hybrid systems by discrete-time feedback control. *Stochastic Analysis and Applications*, **2017**, 35, 803-822	1.1	10
232	Robust stabilization of hybrid uncertain stochastic systems by discrete-time feedback control. *Optimal Control Applications and Methods*, **2017**, 38, 847-859	1.7	4
231	Stabilisation of hybrid stochastic differential equations by feedback control based on discrete-time observations of state and mode. *IET Control Theory and Applications*, **2017**, 11, 301-307	2.5	37
230	The averaging method for multivalued SDEs with jumps and non-Lipschitz coefficients. *Discrete and Continuous Dynamical Systems - Series B*, **2017**, 22, 1-18	1.3	2
229	Successive approximation of solutions to doubly perturbed stochastic differential equations with jumps. *Electronic Journal of Qualitative Theory of Differential Equations*, **2017**, 1-19	0.5	
228	Almost Sure Exponential Stabilization by Discrete-Time Stochastic Feedback Control. *IEEE Transactions on Automatic Control*, **2016**, 61, 1619-1624	5.9	65
227	Almost Sure Exponential Stability of Stochastic Differential Delay Equations. *SIAM Journal on Control and Optimization*, **2016**, 54, 1919-1933	1.9	43
226	On the asymptotic stability and numerical analysis of solutions to nonlinear stochastic differential equations with jumps. *Journal of Computational and Applied Mathematics*, **2016**, 301, 1-15	2.4	13
225	Mean percentage of returns for stock market linked savings accounts. *Applied Mathematics and Computation*, **2016**, 273, 1130-1147	2.7	
224	An averaging principle for neutral stochastic functional differential equations driven by Poisson random measure. *Advances in Difference Equations*, **2016**, 2016,	3.6	4
223	Convergence rates of the truncated Euler–Maruyama method for stochastic differential equations. *Journal of Computational and Applied Mathematics*, **2016**, 296, 362-375	2.4	66
222	Stationary distribution of stochastic SIRS epidemic model with standard incidence. *Discrete and Continuous Dynamical Systems - Series B*, **2016**, 21, 2363-2378	1.3	5
221	A Stochastic Differential Equation Model for the Spread of HIV amongst People Who Inject Drugs. *Computational and Mathematical Methods in Medicine*, **2016**, 2016, 6757928	2.8	8
220	Hopf bifurcation control for a class of delay differential systems with discrete-time delayed feedback controller. *Chaos*, **2016**, 26, 113120	3.3	5
219	Stabilization of stochastic differential equations with Markovian switching by feedback control based on discrete-time state observation with a time delay. *Statistics and Probability Letters*, **2016**, 115, 16-26	0.6	19
218	Asymptotic stability and boundedness of stochastic functional differential equations with Markovian switching. *Journal of the Franklin Institute*, **2016**, 353, 4924-4949	4	16
217	On the averaging principle for stochastic delay differential equations with jumps. *Advances in Difference Equations*, **2015**, 2015,	3.6	13

216	The truncated Euler–Maruyama method for stochastic differential equations. *Journal of Computational and Applied Mathematics*, **2015**, 290, 370-384	2.4	95
215	The existence and asymptotic estimations of solutions to stochastic pantograph equations with diffusion and Lévy jumps. *Applied Mathematics and Computation*, **2015**, 268, 883-896	2.7	8
214	Almost Sure Exponential Stability in the Numerical Simulation of Stochastic Differential Equations. *SIAM Journal on Numerical Analysis*, **2015**, 53, 370-389	2.4	17
213	Stabilization of Hybrid Systems by Feedback Control Based on Discrete-Time State Observations. *SIAM Journal on Control and Optimization*, **2015**, 53, 905-925	1.9	85
212	Robustly exponential stabilization of hybrid uncertain systems by feedback controls based on discrete-time observations. *Statistics and Probability Letters*, **2015**, 102, 8-16	0.6	10
211	Vehicle density estimation of freeway traffic with unknown boundary demand–supply: an interacting multiple model approach. *IET Control Theory and Applications*, **2015**, 9, 1989-1995	2.5	10
210	Numerical stationary distribution and its convergence for nonlinear stochastic differential equations. *Journal of Computational and Applied Mathematics*, **2015**, 276, 16-29	2.4	9
209	Scheduling Problems with Due Date Assignment. *Discrete Dynamics in Nature and Society*, **2015**, 2015, 1-2	1.1	2
208	Analysis on exponential stability of hybrid pantograph stochastic differential equations with highly nonlinear coefficients. *Applied Mathematics and Computation*, **2015**, 263, 73-83	2.7	22
207	Existence, uniqueness and almost surely asymptotic estimations of the solutions to neutral stochastic functional differential equations driven by pure jumps. *Applied Mathematics and Computation*, **2015**, 254, 252-265	2.7	15
206	The threshold of a stochastic SIRS epidemic model in a population with varying size. *Discrete and Continuous Dynamical Systems - Series B*, **2015**, 20, 1277-1295	1.3	8
205	The threshold of a stochastic SIRS epidemic model in a population with varying size. *Discrete and Continuous Dynamical Systems - Series B*, **2015**, 20, 1289-1307	1.3	20
204	Demographic stochasticity in the SDE SIS epidemic model. *Discrete and Continuous Dynamical Systems - Series B*, **2015**, 20, 2859-2884	1.3	5
203	Stability Analysis of Continuous-Time Switched Systems With a Random Switching Signal. *IEEE Transactions on Automatic Control*, **2014**, 59, 180-186	5.9	65
202	Parameter estimation for the stochastic SIS epidemic model. *Statistical Inference for Stochastic Processes*, **2014**, 17, 75-98	0.7	7
201	Mean square polynomial stability of numerical solutions to a class of stochastic differential equations. *Statistics and Probability Letters*, **2014**, 92, 173-182	0.6	6
200	Stabilization of hybrid stochastic differential equations by feedback control based on discrete-time state observations. *Systems and Control Letters*, **2014**, 73, 88-95	2.4	72
199	On the approximations of solutions to neutral SDEs with Markovian switching and jumps under non-Lipschitz conditions. *Applied Mathematics and Computation*, **2014**, 230, 104-119	2.7	11

198	Stochastic dynamics of SIRS epidemic models withrandom perturbation. *Mathematical Biosciences and Engineering*, **2014**, 11, 1003-1025	2.1	33
197	A NOTE ON EXPONENTIAL ALMOST SURE STABILITY OF STOCHASTIC DIFFERENTIAL EQUATION. *Bulletin of the Korean Mathematical Society*, **2014**, 51, 221-227		1
196	Distributed Information Consensus Filters for Simultaneous Input and State Estimation. *Circuits, Systems, and Signal Processing*, **2013**, 32, 877-888	2.2	14
195	Strong convergence of the stopped Euler–Maruyama method for nonlinear stochastic differential equations. *Applied Mathematics and Computation*, **2013**, 223, 389-400	2.7	28
194	Stabilization of continuous-time hybrid stochastic differential equations by discrete-time feedback control. *Automatica*, **2013**, 49, 3677-3681	5.7	114
193	Stability and boundedness of nonlinear hybrid stochastic differential delay equations. *Systems and Control Letters*, **2013**, 62, 178-187	2.4	69
192	Robust Stability and Boundedness of Nonlinear Hybrid Stochastic Differential Delay Equations. *IEEE Transactions on Automatic Control*, **2013**, 58, 2319-2332	5.9	65
191	Mean Exit Times and the Multilevel Monte Carlo Method. *SIAM-ASA Journal on Uncertainty Quantification*, **2013**, 1, 2-18	1.8	24
190	Extinction and recurrence of multi-group SEIR epidemic models with stochastic perturbations. *Nonlinear Analysis: Real World Applications*, **2013**, 14, 1434-1456	2.1	81
189	Asymptotic moment boundedness of the numerical solutions of stochastic differential equations. *Journal of Computational and Applied Mathematics*, **2013**, 251, 22-32	2.4	4
188	Strong convergence and stability of implicit numerical methods for stochastic differential equations with non-globally Lipschitz continuous coefficients. *Journal of Computational and Applied Mathematics*, **2013**, 238, 14-28	2.4	82
187	Strong convergence rates for backward Euler–Maruyama method for non-linear dissipative-type stochastic differential equations with super-linear diffusion coefficients. *Stochastics*, **2013**, 85, 144-171	0.6	59
186	Razumikhin-Type Theorems on Exponential Stability of SDDEs Containing Singularly Perturbed Random Processes. *Abstract and Applied Analysis*, **2013**, 2013, 1-12	0.7	2
185	Neurodynamic System Theory and Applications. *Abstract and Applied Analysis*, **2013**, 2013, 1-1	0.7	1
184	Approximate Solutions of Hybrid Stochastic Pantograph Equations with Levy Jumps. *Abstract and Applied Analysis*, **2013**, 2013, 1-15	0.7	2
183	Delay geometric Brownian motion in financial option valuation. *Stochastics*, **2013**, 85, 295-320	0.6	16
182	Convergence, non-negativity and stability of a new Milstein scheme with applications to finance. *Discrete and Continuous Dynamical Systems - Series B*, **2013**, 18, 2083-2100	1.3	26
181	Discrete Razumikhin-type technique and stability of the Euler--Maruyama method to stochastic functional differential equations. *Discrete and Continuous Dynamical Systems*, **2013**, 33, 885-903	2	21

180	Khasminskii-type theorems for stochastic functional differential equations. *Discrete and Continuous Dynamical Systems - Series B*, **2013**, 18, 1697-1714	1.3	12
179	Lyapunov exponents of hybrid stochastic heat equations. *Systems and Control Letters*, **2012**, 61, 165-172	2.4	11
178	The SIS epidemic model with Markovian switching. *Journal of Mathematical Analysis and Applications*, **2012**, 394, 496-516	1.1	91
177	Stochastic stabilization of hybrid differential equations. *Automatica*, **2012**, 48, 2321-2328	5.7	83
176	A note on almost sure asymptotic stability of neutral stochastic delay differential equations with Markovian switching. *Automatica*, **2012**, 48, 2329-2334	5.7	34
175	The Improved LaSalle-Type Theorems for Stochastic Differential Delay Equations. *Stochastic Analysis and Applications*, **2012**, 30, 568-589	1.1	12
174	On Exponential Almost Sure Stability of Random Jump Systems. *IEEE Transactions on Automatic Control*, **2012**, 57, 3064-3077	5.9	36
173	The Euler–Maruyama approximation for the asset price in the mean-reverting-theta stochastic volatility model. *Computers and Mathematics With Applications*, **2012**, 64, 2209-2223	2.7	6
172	Stability of Singular Stochastic Systems With Markovian Switching. *IEEE Transactions on Automatic Control*, **2011**, 56, 424-429	5.9	62
171	A Stochastic Differential Equation SIS Epidemic Model. *SIAM Journal on Applied Mathematics*, **2011**, 71, 876-902	1.8	414
170	Generalised theory on asymptotic stability and boundedness of stochastic functional differential equations. *Automatica*, **2011**, 47, 2075-2081	5.7	40
169	Numerical simulation of a strongly nonlinear Ait-Sahalia-type interest rate model. *BIT Numerical Mathematics*, **2011**, 51, 405-425	1.7	53
168	Hybrid simulation of autoregulation within transcription and translation. *BIT Numerical Mathematics*, **2011**, 51, 177-196	1.7	3
167	Razumikhin-type theorem for neutral stochastic functional differential equations with unbounded delay. *Acta Mathematica Scientia*, **2011**, 31, 1245-1258	0.7	12
166	Almost sure exponential stability of backward Euler–Maruyama discretizations for hybrid stochastic differential equations. *Journal of Computational and Applied Mathematics*, **2011**, 235, 1213-1226	2.4	30
165	Convergence rate of numerical solutions to SFDEs with jumps. *Journal of Computational and Applied Mathematics*, **2011**, 236, 119-131	2.4	20
164	Numerical solutions of stochastic differential delay equations under the generalized Khasminskii-type conditions. *Applied Mathematics and Computation*, **2011**, 217, 5512-5524	2.7	45
163	Competitive Lotka–Volterra population dynamics with jumps. *Nonlinear Analysis: Theory, Methods & Applications*, **2011**, 74, 6601-6616	1.3	212

162	Sufficient and necessary conditions of stochastic permanence and extinction for stochastic logistic populations under regime switching. *Journal of Mathematical Analysis and Applications*, **2011**, 376, 11-28	1.1	157
161	Stationary distribution of stochastic population systems. *Systems and Control Letters*, **2011**, 60, 398-405	2.4	102
160	STABILITY OF SINGULAR JUMP-LINEAR SYSTEMS WITH A LARGE STATE SPACE: A TWO-TIME-SCALE APPROACH. *ANZIAM Journal*, **2011**, 52, 372-390	0.5	
159	Almost sure exponential stability of the Euler Maruyama approximations for stochastic functional differential equations. *Random Operators and Stochastic Equations*, **2011**, 19,	0.3	13
158	Discretization provides a conceptually simple tool to build expression networks. *PLoS ONE*, **2011**, 6, e18634	3.7	4
157	On Almost Sure Stability of Hybrid Stochastic Systems With Mode-Dependent Interval Delays. *IEEE Transactions on Automatic Control*, **2010**, 55, 1946-1952	5.9	29
156	Stability of Stochastic Delay Hybrid Systems with Jumps. *European Journal of Control*, **2010**, 16, 595-608	2.5	29
155	Approximate solutions of stochastic differential delay equations with Markovian switching. *Journal of Difference Equations and Applications*, **2010**, 16, 195-207	1	9
154	On the Almost Sure Running Maxima of Solutions of Affine Stochastic Functional Differential Equations. *SIAM Journal on Mathematical Analysis*, **2010**, 42, 646-678	1.7	10
153	Approximation Methods for Hybrid Diffusion Systems with State-Dependent Switching Processes: Numerical Algorithms and Existence and Uniqueness of Solutions. *SIAM Journal on Mathematical Analysis*, **2010**, 41, 2335-2352	1.7	18
152	Almost sure exponential stability of numerical solutions for stochastic delay differential equations. *Numerische Mathematik*, **2010**, 115, 681-697	2.2	95
151	SMC design for robust H control of uncertain stochastic delay systems. *Automatica*, **2010**, 46, 405-412	5.7	60
150	Stochastic suppression and stabilization of functional differential equations. *Systems and Control Letters*, **2010**, 59, 745-753	2.4	21
149	Correction to: "Delay-Dependent Exponential Stability of Neutral Stochastic Delay Systems" [Jan 09 147-152]. *IEEE Transactions on Automatic Control*, **2009**, 54, 1733-1733	5.9	2
148	Generalized Stochastic Delay Lotka Volterra Systems. *Stochastic Models*, **2009**, 25, 436-454	0.5	3
147	Positivity and stabilisation for nonlinear stochastic delay differential equations. *Stochastics*, **2009**, 81, 29-54	0.6	5
146	Analysing multi-level Monte Carlo for options with non-globally Lipschitz payoff. *Finance and Stochastics*, **2009**, 13, 403-413	1.9	48
145	Noise suppresses exponential growth under regime switching. *Journal of Mathematical Analysis and Applications*, **2009**, 355, 783-795	1.1	21

144	Delay-dependent robust stability of stochastic delay systems with Markovian switching. *Journal of Control Theory and Applications*, **2009**, 7, 367-372		3
143	Noise expresses exponential growth under regime switching. *Systems and Control Letters*, **2009**, 58, 691-699	2.4	16
142	Stochastic population dynamics under regime switching II. *Journal of Mathematical Analysis and Applications*, **2009**, 355, 577-593	1.1	86
141	The Cox–Ingersoll–Ross model with delay and strong convergence of its Euler–Maruyama approximate solutions. *Applied Numerical Mathematics*, **2009**, 59, 2641-2658	2.5	22
140	Robust delayed-state-feedback stabilization of uncertain stochastic systems. *Automatica*, **2009**, 45, 1332-1339	5.7	49
139	Population dynamical behavior of Lotka–Volterra system under regime switching. *Journal of Computational and Applied Mathematics*, **2009**, 232, 427-448	2.4	118
138	Stochastic hybrid delay population dynamics: well-posed models and extinction. *Journal of Biological Dynamics*, **2009**, 3, 1-21	2.4	9
137	On Input-to-State Stability of Stochastic Retarded Systems With Markovian Switching. *IEEE Transactions on Automatic Control*, **2009**, 54, 1898-1902	5.9	95
136	Delay-Dependent Exponential Stability of Neutral Stochastic Delay Systems. *IEEE Transactions on Automatic Control*, **2009**, 54, 147-152	5.9	81
135	Switching and Diffusion Models for Gene Regulation Networks. *Multiscale Modeling and Simulation*, **2009**, 8, 30-45	1.8	5
134	Population dynamical behavior of non-autonomous Lotka-Volterra competitive system with random perturbation. *Discrete and Continuous Dynamical Systems*, **2009**, 24, 523-545	2	227
133	Mathematical modelling of internal HIV dynamics. *Discrete and Continuous Dynamical Systems - Series B*, **2009**, 12, 305-321	1.3	6
132	A NEW LMI CONDITION FOR DELAY-DEPENDENT ROBUST STABILITY OF STOCHASTIC TIME-DELAY SYSTEMS. *Asian Journal of Control*, **2008**, 7, 419-423	1.7	58
131	ASYMPTOTIC BEHAVIOURS OF STOCHASTIC DIFFERENTIAL DELAY EQUATIONS. *Asian Journal of Control*, **2008**, 8, 21-27	1.7	1
130	Stability of Hybrid Stochastic Retarded Systems. *IEEE Transactions on Circuits and Systems I: Regular Papers*, **2008**, 55, 3413-3420	3.9	31
129	Uncertainty and economic growth in a stochastic R&D model. *Economic Modelling*, **2008**, 25, 1306-1317	3.4	2
128	Numerical Solutions of Neutral Stochastic Functional Differential Equations. *SIAM Journal on Numerical Analysis*, **2008**, 46, 1821-1841	2.4	50
127	A Note on the Rate of Convergence of the Euler–Maruyama Method for Stochastic Differential Equations. *Stochastic Analysis and Applications*, **2008**, 26, 325-333	1.1	13

126	Stabilization and Destabilization of Nonlinear Differential Equations by Noise. *IEEE Transactions on Automatic Control*, **2008**, 53, 683-691	5.9	129
125	Geometric Brownian motion with delay: mean square characterisation. *Proceedings of the American Mathematical Society*, **2008**, 137, 339-348	0.8	9
124	A highly sensitive mean-reverting process in finance and the Euler–Maruyama approximations. *Journal of Mathematical Analysis and Applications*, **2008**, 348, 540-554	1.1	26
123	Theory and application of stability for stochastic reaction diffusion systems. *Science in China Series F: Information Sciences*, **2008**, 51, 158-170		6
122	A stochastic model for internal HIV dynamics. *Journal of Mathematical Analysis and Applications*, **2008**, 341, 1084-1101	1.1	182
121	The adapted solution and comparison theorem for backward stochastic differential equations with Poisson jumps and applications. *Journal of Mathematical Analysis and Applications*, **2008**, 346, 345-358	1.1	21
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