Xuerong Mao

List of Publications by Year in descending order

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310 papers	19,351 citations	10351 72 h-index	17546 121 g-index
312 all docs	312 docs citations	312 times ranked	3630 citing authors

#	Article	IF	Citations
1	Stochastic Differential Equations with Markovian Switching. , 2006, , .		1,035
2	Stochastic differential equations and applications. , 2008, , .		908
3	Environmental Brownian noise suppresses explosions in population dynamics. Stochastic Processes and Their Applications, 2002, 97, 95-110.	0.4	724
4	Stability of stochastic differential equations with Markovian switching. Stochastic Processes and Their Applications, 1999, 79, 45-67.	0.4	662
5	A Stochastic Differential Equation SIS Epidemic Model. SIAM Journal on Applied Mathematics, 2011, 71, 876-902.	0.8	545
6	Delay-Dependent <formula formulatype="inline"><tex>$H_{infty }$</tex> </formula> Control and Filtering for Uncertain Markovian Jump Systems With Time-Varying Delays. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2007, 54, 2070-2077.	0.1	516
7	Strong Convergence of Euler-Type Methods for Nonlinear Stochastic Differential Equations. SIAM Journal on Numerical Analysis, 2002, 40, 1041-1063.	1.1	466
8	Exponential stability of stochastic delay interval systems with Markovian switching. IEEE Transactions on Automatic Control, 2002, 47, 1604-1612.	3.6	447
9	Stability of stochastic delay neural networks. Journal of the Franklin Institute, 2001, 338, 481-495.	1.9	308
10	Competitive Lotkaâ€“Volterra population dynamics with jumps. Nonlinear Analysis: Theory, Methods & Applications, 2011, 74, 6601-6616.	0.6	273
11	Population dynamical behavior of non-autonomous Lotka-Volterra competitive system with random perturbation. Discrete and Continuous Dynamical Systems, 2009, 24, 523-545.	0.5	271
12	Robust stability and controllability of stochastic differential delay equations with Markovian switching. Automatica, 2004, 40, 343-354.	3.0	260
13	Robust stability of uncertain stochastic differential delay equations. Systems and Control Letters, 1998, 35, 325-336.	1.3	256
14	A Note on the LaSalle-Type Theorems for Stochastic Differential Delay Equations. Journal of Mathematical Analysis and Applications, 2002, 268, 125-142.	0.5	248
15	Stochastic population dynamics under regime switching. Journal of Mathematical Analysis and Applications, 2007, 334, 69-84.	0.5	247
16	A stochastic model for internal HIV dynamics. Journal of Mathematical Analysis and Applications, 2008, 341, 1084-1101.	0.5	232
17	Stabilization and destabilization of hybrid systems of stochastic differential equations. Automatica, 2007, 43, 264-273.	3.0	226
18	Asymptotic behaviour of the stochastic Lotkaâ€“Volterra model. Journal of Mathematical Analysis and Applications, 2003, 287, 141-156.	0.5	208

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19	Stochastic delay Lotkaâ€“Volterra model. Journal of Mathematical Analysis and Applications, 2004, 292, 364-380.	0.5	201
20	Exponential stability and instability of stochastic neural networks¹. Stochastic Analysis and Applications, 1996, 14, 165-185.	0.9	189
21	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.	0.5	189
22	Stochastic Versions of the LaSalle Theorem. Journal of Differential Equations, 1999, 153, 175-195.	1.1	183
23	Stochastic Differential Delay Equations with Markovian Switching. Bernoulli, 2000, 6, 73.	0.7	183
24	Stochastic stabilization and destabilization. Systems and Control Letters, 1994, 23, 279-290.	1.3	177
25	Stabilization of continuous-time hybrid stochastic differential equations by discrete-time feedback control. Automatica, 2013, 49, 3677-3681.	3.0	174
26	Razumikhin-type theorems on exponential stability of stochastic functional differential equations. Stochastic Processes and Their Applications, 1996, 65, 233-250.	0.4	171
27	Robustness of exponential stability of stochastic differential delay equations. IEEE Transactions on Automatic Control, 1996, 41, 442-447.	3.6	168
28	A stochastic model of AIDS and condom use. Journal of Mathematical Analysis and Applications, 2007, 325, 36-53.	0.5	168
29	Stabilization and Destabilization of Nonlinear Differential Equations by Noise. IEEE Transactions on Automatic Control, 2008, 53, 683-691.	3.6	167
30	Adapted solutions of backward stochastic differential equations with non-Lipschitz coefficients. Stochastic Processes and Their Applications, 1995, 58, 281-292.	0.4	156
31	The truncated Eulerâ€“Maruyama method for stochastic differential equations. Journal of Computational and Applied Mathematics, 2015, 290, 370-384.	1.1	154
32	Razumikhin-Type Theorems on Exponential Stability of Neutral Stochastic Differential Equations. SIAM Journal on Mathematical Analysis, 1997, 28, 389-401.	0.9	150
33	Asymptotic stability in distribution of stochastic differential equations with Markovian switching. Stochastic Processes and Their Applications, 2003, 103, 277-291.	0.4	149
34	Almost surely asymptotic stability of neutral stochastic differential delay equations with Markovian switching. Stochastic Processes and Their Applications, 2008, 118, 1385-1406.	0.4	145
35	Population dynamical behavior of Lotkaâ€“Volterra system under regime switching. Journal of Computational and Applied Mathematics, 2009, 232, 427-448.	1.1	144
36	Stability Analysis for Continuous-Time Switched Systems With Stochastic Switching Signals. IEEE Transactions on Automatic Control, 2018, 63, 3083-3090.	3.6	143

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37	Stationary distribution of stochastic population systems. Systems and Control Letters, 2011, 60, 398-405.	1.3	136
38	Numerical solutions of stochastic differential delay equations under local Lipschitz condition. Journal of Computational and Applied Mathematics, 2003, 151, 215-227.	1.1	134
39	Neutral Stochastic Differential Delay Equations with Markovian Switching. Stochastic Analysis and Applications, 2003, 21, 819-847.	0.9	132
40	Almost Sure and Moment Exponential Stability in the Numerical Simulation of Stochastic Differential Equations. SIAM Journal on Numerical Analysis, 2007, 45, 592-609.	1.1	131
41	Stabilisation of hybrid stochastic differential equations by delay feedback control. Systems and Control Letters, 2008, 57, 927-935.	1.3	128
42	Stabilization of Hybrid Systems by Feedback Control Based on Discrete-Time State Observations. SIAM Journal on Control and Optimization, 2015, 53, 905-925.	1.1	127
43	Stochastic differential delay equations of population dynamics. Journal of Mathematical Analysis and Applications, 2005, 304, 296-320.	0.5	126
44	Convergence of Monte Carlo simulations involving the mean-reverting square root process. Journal of Computational Finance, 2005, 8, 35-61.	0.3	124
45	On Input-to-State Stability of Stochastic Retarded Systems With Markovian Switching. IEEE Transactions on Automatic Control, 2009, 54, 1898-1902.	3.6	123
46	The SIS epidemic model with Markovian switching. Journal of Mathematical Analysis and Applications, 2012, 394, 496-516.	0.5	119
47	Stochastic stabilization of hybrid differential equations. Automatica, 2012, 48, 2321-2328.	3.0	113
48	Exponential Mean-Square Stability of Numerical Solutions to Stochastic Differential Equations. LMS Journal of Computation and Mathematics, 2003, 6, 297-313.	0.9	110
49	Stochastic population dynamics under regime switching II. Journal of Mathematical Analysis and Applications, 2009, 355, 577-593.	0.5	109
50	Almost sure exponential stability of numerical solutions for stochastic delay differential equations. Numerische Mathematik, 2010, 115, 681-697.	0.9	109
51	Stabilization of hybrid stochastic differential equations by feedback control based on discrete-time state observations. Systems and Control Letters, 2014, 73, 88-95.	1.3	109
52	New criteria on exponential stability of neutral stochastic differential delay equations. Systems and Control Letters, 2006, 55, 826-834.	1.3	105
53	Delay-Dependent Exponential Stability of Neutral Stochastic Delay Systems. IEEE Transactions on Automatic Control, 2009, 54, 147-152.	3.6	105
54	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.	1.1	102

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55	Stability and boundedness of nonlinear hybrid stochastic differential delay equations. Systems and Control Letters, 2013, 62, 178-187.	1.3	98
56	Exponential stability in mean square of neutral stochastic differential functional equations. Systems and Control Letters, 1995, 26, 245-251.	1.3	96
57	Convergence rates of the truncated Eulerâ€“Maruyama method for stochastic differential equations. Journal of Computational and Applied Mathematics, 2016, 296, 362-375.	1.1	96
58	Extinction and recurrence of multi-group SEIR epidemic models with stochastic perturbations. Nonlinear Analysis: Real World Applications, 2013, 14, 1434-1456.	0.9	94
59	Almost Sure Exponential Stabilization by Discrete-Time Stochastic Feedback Control. IEEE Transactions on Automatic Control, 2016, 61, 1619-1624.	3.6	94
60	Khasminskii-Type Theorems for Stochastic Differential Delay Equations. Stochastic Analysis and Applications, 2005, 23, 1045-1069.	0.9	93
61	LaSalle-Type Theorems for Stochastic Differential Delay Equations. Journal of Mathematical Analysis and Applications, 1999, 236, 350-369.	0.5	92
62	Exponential stability of stochastic delay interval systems. Systems and Control Letters, 2000, 40, 171-181.	1.3	91
63	Robust Stability and Boundedness of Nonlinear Hybrid Stochastic Differential Delay Equations. IEEE Transactions on Automatic Control, 2013, 58, 2319-2332.	3.6	88
64	Stability and stabilisation of stochastic differential delay equations. IET Control Theory and Applications, 2007, 1, 1551-1566.	1.2	87
65	Stability of Singular Stochastic Systems With Markovian Switching. IEEE Transactions on Automatic Control, 2011, 56, 424-429.	3.6	86
66	Razumikhin method and exponential stability of hybrid stochastic delay interval systems. Journal of Mathematical Analysis and Applications, 2006, 314, 45-66.	0.5	84
67	Delay dependent stability of highly nonlinear hybrid stochastic systems. Automatica, 2017, 82, 165-170.	3.0	84
68	Stochastic stabilisation of functional differential equations. Systems and Control Letters, 2005, 54, 1069-1081.	1.3	83
69	Almost sure exponential stabilisation of stochastic systems by state-feedback control. Automatica, 2008, 44, 465-471.	3.0	82
70	Stability Analysis of Continuous-Time Switched Systems With a Random Switching Signal. IEEE Transactions on Automatic Control, 2014, 59, 180-186.	3.6	82
71	Strong convergence rates for backward Eulerâ€“Maruyama method for non-linear dissipative-type stochastic differential equations with super-linear diffusion coefficients. Stochastics, 2013, 85, 144-171.	0.6	80
72	A NEW LMI CONDITION FOR DELAY-DEPENDENT ROBUST STABILITY OF STOCHASTIC TIME-DELAY SYSTEMS. Asian Journal of Control, 2005, 7, 419-423.	1.9	78

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73	Exponential stability of equidistant Eulerâ€“Maruyama approximations of stochastic differential delay equations. Journal of Computational and Applied Mathematics, 2007, 200, 297-316.	1.1	76
74	SMC design for robust <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si6.gif" display="inline" overflow="scroll"><mml:msub><mml:mrow><mml:mi>H</mml:mi></mml:mrow><mml:mrow><mml:mi>â^ž</mml:mi></mml:mrow></m control of uncertain stochastic delay systems. Automatica, 2010, 46, 405-412.	3.0	76
75	Stabilisation of highly nonlinear hybrid stochastic differential delay equations by delay feedback control. Automatica, 2020, 112, 108657.	3.0	76
76	Convergence of the Eulerâ€“Maruyama method for stochastic differential equations with Markovian switching. Mathematics and Computers in Simulation, 2004, 64, 223-235.	2.4	74
77	Numerical Solutions of Stochastic Functional Differential Equations. LMS Journal of Computation and Mathematics, 2003, 6, 141-161.	0.9	73
78	Noise suppresses or expresses exponential growth. Systems and Control Letters, 2008, 57, 262-270.	1.3	73
79	The improved LaSalle-type theorems for stochastic functional differential equations. Journal of Mathematical Analysis and Applications, 2006, 318, 134-154.	0.5	72
80	Numerical simulation of a strongly nonlinear Ait-Sahalia-type interest rate model. BIT Numerical Mathematics, 2011, 51, 405-425.	1.0	71
81	Robust delayed-state-feedback stabilization of uncertain stochastic systems. Automatica, 2009, 45, 1332-1339.	3.0	69
82	Exponential stability of non-linear stochastic evolution equations. Stochastic Processes and Their Applications, 1998, 78, 173-193.	0.4	64
83	Stability in distribution of stochastic differential delay equations with Markovian switching. Systems and Control Letters, 2003, 50, 195-207.	1.3	64
84	Almost Sure Exponential Stability of Stochastic Differential Delay Equations. SIAM Journal on Control and Optimization, 2016, 54, 1919-1933.	1.1	64
85	Numerical Solutions of Neutral Stochastic Functional Differential Equations. SIAM Journal on Numerical Analysis, 2008, 46, 1821-1841.	1.1	59
86	Analysing multi-level Monte Carlo for options withÂnon-globally Lipschitz payoff. Finance and Stochastics, 2009, 13, 403-413.	0.7	58
87	ALMOST SURE POLYNOMIAL STABILITY FOR A CLASS OF STOCHASTIC DIFFERENTIAL EQUATIONS. Quarterly Journal of Mathematics, 1992, 43, 339-348.	0.3	54
88	On stabilization of partial differential equations by noise. Nagoya Mathematical Journal, 2001, 161, 155-170.	0.6	54
89	Stability of highly nonlinear neutral stochastic differential delay equations. Systems and Control Letters, 2018, 115, 1-8.	1.3	54
90	Stabilization of Highly Nonlinear Hybrid Systems by Feedback Control Based on Discrete-Time State Observations. IEEE Transactions on Automatic Control, 2020, 65, 2899-2912.	3.6	54

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91	Stabilisation of hybrid stochastic differential equations by feedback control based on discreteâ€time observations of state and mode. IET Control Theory and Applications, 2017, 11, 301-307.	1.2	53
92	A note on almost sure asymptotic stability of neutral stochastic delay differential equations with Markovian switching. Automatica, 2012, 48, 2329-2334.	3.0	51
93	Generalised theory on asymptotic stability and boundedness of stochastic functional differential equations. Automatica, 2011, 47, 2075-2081.	3.0	50
94	DELAY POPULATION DYNAMICS AND ENVIRONMENTAL NOISE. Stochastics and Dynamics, 2005, 05, 149-162.	0.6	49
95	Numerical solutions of stochastic differential delay equations under the generalized Khasminskii-type conditions. Applied Mathematics and Computation, 2011, 217, 5512-5524.	1.4	49
96	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.	1.5	49
97	On Exponential Almost Sure Stability of Random Jump Systems. IEEE Transactions on Automatic Control, 2012, 57, 3064-3077.	3.6	48
98	Numerical method for stationary distribution of stochastic differential equations with Markovian switching. Journal of Computational and Applied Mathematics, 2005, 174, 1-27.	1.1	46
99	Almost sure and moment exponential stability of Eulerâ€“Maruyama discretizations for hybrid stochastic differential equations. Journal of Computational and Applied Mathematics, 2008, 213, 127-141.	1.1	45
100	Stability of Stochastic Delay Hybrid Systems with Jumps. European Journal of Control, 2010, 16, 595-608.	1.6	42
101	Boundedness and stability of highly nonlinear hybrid neutral stochastic systems with multiple delays. Science China Information Sciences, 2019, 62, 1.	2.7	42
102	Strong convergence of the stopped Eulerâ€“Maruyama method for nonlinear stochastic differential equations. Applied Mathematics and Computation, 2013, 223, 389-400.	1.4	41
103	RAZUMIKHIN-TYPE THEOREMS ON STABILITY OF STOCHASTIC NEURAL NETWORKS WITH DELAYS. Stochastic Analysis and Applications, 2001, 19, 85-101.	0.9	40
104	Stochastic dynamics of SIRS epidemic models withrandom perturbation. Mathematical Biosciences and Engineering, 2014, 11, 1003-1025.	1.0	40
105	Exponential stability of stochastic differential delay equations. Stochastic and Stochastics Reports, 1997, 60, 135-153.	0.6	39
106	Approximations of Eulerâ€“Maruyama type for stochastic differential equations with Markovian switching, under non-Lipschitz conditions. Journal of Computational and Applied Mathematics, 2007, 205, 936-948.	1.1	38
107	Stability of Hybrid Stochastic Retarded Systems. IEEE Transactions on Circuits and Systems I: Regular Papers, 2008, 55, 3413-3420.	3.5	38
108	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.	0.5	38

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109	Some Contributions to Stochastic Asymptotic Stability and Boundedness via Multiple Lyapunov Functions. Journal of Mathematical Analysis and Applications, 2001, 260, 325-340.	0.5	37
110	Mean square stability of stochastic Volterra integro-differential equations. Systems and Control Letters, 2006, 55, 459-465.	1.3	37
111	The partially truncated Eulerâ€“Maruyama method and its stability and boundedness. Applied Numerical Mathematics, 2017, 115, 235-251.	1.2	37
112	A highly sensitive mean-reverting process in finance and the Eulerâ€“Maruyama approximations. Journal of Mathematical Analysis and Applications, 2008, 348, 540-554.	0.5	35
113	Structured Robust Stability and Boundedness of Nonlinear Hybrid Delay Systems. SIAM Journal on Control and Optimization, 2018, 56, 2662-2689.	1.1	35
114	On stochastic stabilization of difference equations. Discrete and Continuous Dynamical Systems, 2006, 15, 843-857.	0.5	35
115	Stochastic Hopfield neural networks. Journal of Physics A, 2003, 36, 2235-2249.	1.6	34
116	On Almost Sure Stability of Hybrid Stochastic Systems With Mode-Dependent Interval Delays. IEEE Transactions on Automatic Control, 2010, 55, 1946-1952.	3.6	34
117	Almost sure exponential stability of backward Eulerâ€“Maruyama discretizations for hybrid stochastic differential equations. Journal of Computational and Applied Mathematics, 2011, 235, 1213-1226.	1.1	34
118	A stochastic differential equation SIS epidemic model with two independent Brownian motions. Journal of Mathematical Analysis and Applications, 2019, 474, 1536-1550.	0.5	34
119	Positivity preserving truncated Eulerâ€“Maruyama Method for stochastic Lotkaâ€“Volterra competition model. Journal of Computational and Applied Mathematics, 2021, 394, 113566.	1.1	34
120	Exponential stability of nonlinear differential delay equations. Systems and Control Letters, 1996, 28, 159-165.	1.3	32
121	Convergence rate and stability of the truncated Eulerâ€“Maruyama method for stochastic differential equations. Journal of Computational and Applied Mathematics, 2018, 337, 274-289.	1.1	32
122	Attraction, stability and boundedness for stochastic differential delay equations. Nonlinear Analysis: Theory, Methods & Applications, 2001, 47, 4795-4806.	0.6	31
123	Stability of stochastic interval systems with time delays. Systems and Control Letters, 2001, 42, 279-290.	1.3	31
124	Stability of stochastic integro differiential equations. Stochastic Analysis and Applications, 2000, 18, 1005-1017.	0.9	30
125	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.	0.5	30
126	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.	2.7	30

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127	Stability of highly nonlinear hybrid stochastic integro-differential delay equations. Nonlinear Analysis: Hybrid Systems, 2019, 31, 180-199.	2.1	30
128	Mean Exit Times and the Multilevel Monte Carlo Method. SIAM-ASA Journal on Uncertainty Quantification, 2013, 1, 2-18.	1.1	29
129	Exponential Stability of Highly Nonlinear Neutral Pantograph Stochastic Differential Equations. Asian Journal of Control, 2020, 22, 436-448.	1.9	29
130	Advances in Stabilization of Hybrid Stochastic Differential Equations by Delay Feedback Control. SIAM Journal on Control and Optimization, 2020, 58, 735-754.	1.1	29
131	Stability in Distribution of Numerical Solutions for Stochastic Differential Equations. Stochastic Analysis and Applications, 2004, 22, 1133-1150.	0.9	28
132	Euler-Maruyama approximations in mean-reverting stochastic volatility model under regime-switching. Journal of Applied Mathematics and Stochastic Analysis, 2006, 2006, 1-20.	0.3	28
133	The Coxâ€“Ingersollâ€“Ross model with delay and strong convergence of its Eulerâ€–Maruyama approximate solutions. Applied Numerical Mathematics, 2009, 59, 2641-2658.	1.2	28
134	Convergence rate of numerical solutions to SFDEs with jumps. Journal of Computational and Applied Mathematics, 2011, 236, 119-131.	1.1	28
135	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.	0.4	28
136	Robustness of stability of nonlinear systems with stochastic delay perturbations. Systems and Control Letters, 1992, 19, 391-400.	1.3	27
137	LARGE TIME DECAY BEHAVIOR OF DYNAMICAL EQUATIONS WITH RANDOM PERTURBATION FEATURES. Stochastic Analysis and Applications, 2001, 19, 295-327.	0.9	27
138	Stochastic suppression and stabilization of functional differential equations. Systems and Control Letters, 2010, 59, 745-753.	1.3	27
139	Almost sure exponential stability of hybrid stochastic functional differential equations. Journal of Mathematical Analysis and Applications, 2018, 458, 1390-1408.	0.5	27
140	The truncated EM method for stochastic differential equations with Poisson jumps. Journal of Computational and Applied Mathematics, 2019, 355, 232-257.	1.1	27
141	Stabilisation by delay feedback control for highly nonlinear neutral stochastic differential equations. Systems and Control Letters, 2020, 137, 104645.	1.3	27
142	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.	0.9	26
143	Delay geometric Brownian motion in financial option valuation. Stochastics, 2013, 85, 295-320.	0.6	26
144	The truncated Milstein method for stochastic differential equations with commutative noise. Journal of Computational and Applied Mathematics, 2018, 338, 298-310.	1.1	26

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145	The truncated Eulerâ€“Maruyama method for stochastic differential delay equations. Numerical Algorithms, 2018, 78, 599-624.	1.1	26
146	Stochastic prey-predator system with foraging arena scheme. Applied Mathematical Modelling, 2018, 64, 357-371.	2.2	26
147	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.	0.5	26
148	Constrained Markovian decision processes: the dynamic programming approach. Operations Research Letters, 2000, 27, 119-126.	0.5	25
149	Analysis on exponential stability of hybrid pantograph stochastic differential equations with highly nonlinear coefficients. Applied Mathematics and Computation, 2015, 263, 73-83.	1.4	25
150	Almost Sure Exponential Stability in the Numerical Simulation of Stochastic Differential Equations. SIAM Journal on Numerical Analysis, 2015, 53, 370-389.	1.1	25
151	Almost sure exponential stability for delay stochastic differential equations with respect to semimartingales. Stochastic Analysis and Applications, 1991, 9, 177-194.	0.9	24
152	Approximate solutions for a class of stochastic evolution equations with variable delays. II. Numerical Functional Analysis and Optimization, 1994, 15, 65-76.	0.6	24
153	Preserving exponential mean-square stability in the simulation of hybrid stochastic differential equations. Numerische Mathematik, 2007, 108, 295-325.	0.9	23
154	Noise suppresses exponential growth under regime switching. Journal of Mathematical Analysis and Applications, 2009, 355, 783-795.	0.5	23
155	Asymptotic stability and boundedness of stochastic functional differential equations with Markovian switching. Journal of the Franklin Institute, 2016, 353, 4924-4949.	1.9	23
156	Stability equivalence between the stochastic differential delay equations driven by <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e38" altimg="si317.svg"><mml:mi>G</mml:mi></mml:math>-Brownian motion and the Eulerâ€“Maruyama method. Applied Mathematics Letters, 2019, 96, 138-146.	1.5	23
157	Generalized criteria on delayâ€dependent stability of highly nonlinear hybrid stochastic systems. International Journal of Robust and Nonlinear Control, 2019, 29, 1201-1215.	2.1	23
158	Existence and uniqueness of the solutions of stochastic differential equations. Stochastics, 1983, 11, 19-32.	0.6	22
159	On the averaging principle for stochastic delay differential equations with jumps. Advances in Difference Equations, 2015, 2015, .	3.5	22
160	Aperiodic stochastic resonance in neural information processing with Gaussian colored noise. Cognitive Neurodynamics, 2021, 15, 517-532.	2.3	22
161	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.	0.5	22
162	Almost sure exponential stability of the Eulerâ€“Maruyama approximations for stochastic functional differential equations. Random Operators and Stochastic Equations, 2011, 19, .	0.2	20

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163	Stabilization of Hybrid Systems by Feedback Control Based on Discreteâ€Time State and Mode Observations. Asian Journal of Control, 2017, 19, 1943-1953.	1.9	20
164	Delay Feedback Control for Switching Diffusion Systems Based on Discrete-Time Observations. SIAM Journal on Control and Optimization, 2020, 58, 2900-2926.	1.1	20
165	On exponential stability of hybrid neutral stochastic differential delay equations with different structures. Nonlinear Analysis: Hybrid Systems, 2021, 39, 100971.	2.1	20
166	Approximate solutions for a class of stochastic evolution equations with variable delays. Numerical Functional Analysis and Optimization, 1991, 12, 525-533.	0.6	19
167	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.	1.4	19
168	Stability in distribution of stochastic functional differential equations. Systems and Control Letters, 2019, 132, 104513.	1.3	19
169	EXPONENTIAL STABILITY FOR STOCHASTIC DIFFERENTIAL DELAY EQUATIONS IN HILBERT SPACES. Quarterly Journal of Mathematics, 1991, 42, 77-85.	0.3	18
170	Stabilisation of highly nonâ€linear continuousâ€time hybrid stochastic differential delay equations by discreteâ€time feedback control. IET Control Theory and Applications, 2020, 14, 313-323.	1.2	18
171	Existence and uniqueness of the solutions of delay stochastic integral equations. Stochastic Analysis and Applications, 1989, 7, 59-74.	0.9	17
172	Spatial heterogeneity and the stability of reaction states in autocatalysis. Physical Review E, 2002, 66, 051915.	0.8	17
173	Stationary distributions of Eulerâ€“Maruyama-type stochastic difference equations with Markovian switching and their convergence. Journal of Difference Equations and Applications, 2005, 11, 29-48.	0.7	17
174	Noise expresses exponential growth under regime switching. Systems and Control Letters, 2009, 58, 691-699.	1.3	17
175	Razumikhin-type theorem for neutral stochastic functional differential equations with unbounded delay. Acta Mathematica Scientia, 2011, 31, 1245-1258.	0.5	17
176	Comparison theorem of one-dimensional stochastic hybrid delay systems. Systems and Control Letters, 2008, 57, 56-63.	1.3	16
177	A Note on the Rate of Convergence of the Eulerâ€“Maruyama Method for Stochastic Differential Equations. Stochastic Analysis and Applications, 2008, 26, 325-333.	0.9	16
178	Truncated Euler-Maruyama method for classical and time-changed non-autonomous stochastic differential equations. Applied Numerical Mathematics, 2020, 153, 66-81.	1.2	16
179	Stabilization and destabilization of hybrid systems by periodic stochastic controls. Systems and Control Letters, 2021, 152, 104929.	1.3	16
180	Exponential stability of large-scale stochastic differential equations. Systems and Control Letters, 1992, 19, 71-81.	1.3	15

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181	Distributed Information Consensus Filters for Simultaneous Input and State Estimation. Circuits, Systems, and Signal Processing, 2013, 32, 877-888.	1.2	15
182	Numerical stationary distribution and its convergence for nonlinear stochastic differential equations. Journal of Computational and Applied Mathematics, 2015, 276, 16-29.	1.1	15
183	Exponential stabilization by delay feedback control for highly nonlinear hybrid stochastic functional differential equations with infinite delay. Nonlinear Analysis: Hybrid Systems, 2021, 40, 101026.	2.1	15
184	Khasminskii-type theorems for stochastic functional differential equations. Discrete and Continuous Dynamical Systems - Series B, 2013, 18, 1697-1714.	0.5	15
185	Comments on "An improved Razumikhin-type theorem and its applications" [with reply]. IEEE Transactions on Automatic Control, 1997, 42, 429-430.	3.6	14
186	Strong convergence of Monte Carlo simulations of the mean-reverting square root process with jump. Applied Mathematics and Computation, 2008, 206, 494-505.	1.4	14
187	Geometric Brownian motion with delay: mean square characterisation. Proceedings of the American Mathematical Society, 2008, 137, 339-348.	0.4	14
188	The Improved LaSalle-Type Theorems for Stochastic Differential Delay Equations. Stochastic Analysis and Applications, 2012, 30, 568-589.	0.9	14
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