Hua Xu

List of Publications by Year
in descending order

107 papers	566 citations	759233 12 h-index	752698 20 g-index
107 all docs	107 docs citations	107 times ranked	174 citing authors

#	Article	IF	Citations
1	Hamilton-Jacobi equation for descriptor systems. Systems and Control Letters, 1993, 21, 321-327.	2.3	45
2	Pareto Optimal Strategy for Stochastic Weakly Coupled Large Scale Systems With State Dependent System Noise. IEEE Transactions on Automatic Control, 2009, 54, 2244-2250.	5.7	44
3	New iterative algorithm for algebraic Riccati equation related to H/sub âˆž/ control problem of singularly perturbed systems. IEEE Transactions on Automatic Control, 2001, 46, 1659-1666.	5.7	33
4	Stackelberg strategies for stochastic systems with multiple followers. Automatica, 2015, 53, 53-59.	5.0	32
5	Infinite horizon linear-quadratic Stackelberg games for discrete-time stochastic systems. Automatica, 2017, 76, 301-308.	5.0	28
6	Linear-quadratic zero-sum differential games for generalized state space systems. IEEE Transactions on Automatic Control, 1994, 39, 143-147.	5.7	26
7	Recursive approach of H control problems for singularly perturbed systems under perfect- and imperfect-state measurements. International Journal of Systems Science, 1999, 30, 467-477.	5.5	23
8	New method for composite optimal control of singularly perturbed systems. International Journal of Systems Science, 1997, 28, 161-172.	5.5	22
9	New results for near-optimal control of linear multiparameter singularly perturbed systems. Automatica, 2003, 39, 2157-2167.	5.0	20
10	Infinite-horizon differential games of singularly perturbed systems: A unified approach. Automatica, 1997, 33, 273-276.	5.0	18
11	Incentive Stackelberg Games for Stochastic Linear Systems With H_infty Constraint. IEEE Transactions on Cybernetics, 2019, 49, 1463-1474.	9.5	18
12	Near-optimal control of linear multiparameter singularly perturbed systems. IEEE Transactions on Automatic Control, 2002, 47, 2051-2057.	5.7	16
13	A Stochastic Multiple-Leader-Follower Incentive Stackelberg Strategy for Markov Jump Linear Systems. , 2017, 1, 250-255.		12
14	A revised Kleinman algorithm to solve algebraic Riccati equation of singularly perturbed systems. Automatica, 2002, 38, 553-558.	5.0	11
15	Static Output-Feedback Incentive Stackelberg Game for Discrete-Time Markov Jump Linear Stochastic Systems With External Disturbance. , 2018, 2, 701-706.		11
16	Nash Strategies of Markov Jump Stochastic Systems Applied to Weakly-Coupled Large-Scale Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 5884-5889.	0.4	9
17	Soft-constrained stochastic Nash games for multimodeling systems via static output feedback strategy. , 2009, , .		8
18	New sufficient conditions for linear feedback closed-loop Stackelberg strategy of descriptor systems. IEEE Transactions on Automatic Control, 1994, 39, 1097-1102.	5.7	7

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19	Recursive algorithm for mixed H2/H8control problem of singularly perturbed systems. International Journal of Systems Science, 2000, 31, 1299-1312.	5.5	7
20	Stochastic optimal control for weakly coupled large-scale systems via state and static output feedback. IET Control Theory and Applications, 2010, 4, 1849-1858.	2.1	7
21	Decentralized <inline-formula> <tex-math notation="TeX">H_{2}</tex-math></inline-formula> Control for Multi-Channel Stochastic Systems. IEEE Transactions on Automatic Control, 2015, 60, 1080-1086.	5.7	7
22	Team-optimal Incentive Stackelberg Strategies for Markov Jump Linear Stochastic Systems with H âˆž Constraint * *This work was supported by JSPS KAKENHI Grant Numbers 26330027 and 16K00029.. IFAC-PapersOnLine, 2017, 50, 3780-3785.	0.9	7
23	Stackelberg Strategy for Uncertain Markov Jump Delay Stochastic Systems. , 2020, 4, 1006-1011.		7
24	Robust SOF Stackelberg game for stochastic LPV systems. Science China Information Sciences, 2021, 64, 1.	4.3	7
25	The linear-quadratic optimal regulator for continuous-time descriptor systems: a dynamic programming approach. International Journal of Systems Science, 1994, 25, 1889-1898.	5.5	6
26	Multi-objective decision-making problems for discrete-time stochastic systems with state- and disturbance-dependent noise. , 2011, , .		6
27	Static Output Feedback Stackelberg Strategy of Infinite Horizon Markov Jump Linear Stochastic Systems with <tex>H_{infty}</tex> Constraint. , 2018, , .		6
28	Robust stabilization of non-standard singularly perturbed systems with uncertainties. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1999, 32, 3349-3354.	0.4	5
29	Numerical algorithm for solving cross-coupled algebraic Riccati equations related to Nash games of multimodeling systems. , 0, , .		5
30	Static output feedback H<inf>2</inf>/H<inf>∞</inf> control of infinite horizon Markov jump linear stochastic systems with multiple decision makers. , 2012, , .		5
31	H_{âˆž} Constraint Pareto Suboptimal Static Output Feedback Strategy for Uncertain Markov Jump Linear Stochastic Systems. , 2019, , .		5
32	Derivation of a maximum principle for descriptor systems without an admissible initial condition assumption. Journal of the Franklin Institute, 1995, 332, 633-642.	3.4	4
33	Nash strategies for large scale interconnected systems. , 2004, , .		4
34	Numerical Algorithm for Solving Cross-Coupled Algebraic Riccati Equations of Singularly Perturbed Systems. , 2005, , 545-570.		4
35	Stochastic Nash games for weakly coupled large scale discrete-time systems with state- and control-dependent noise. , 2010, , .		4
36	Soft-constrained stochastic Nash games for weakly coupled large-scale discrete-time systems. , 2011, , .		4

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37	Nash strategy for stochastic delay systems. , 2011, , .		4
38	Nash strategy for Markov jump stochastic delay systems. , 2013, , .		4
39	Robust Pareto Suboptimal Strategy for Uncertain Markov Jump Linear Stochastic Systems with Multiple Decision Makers. , 2018, , .		4
40	A new algorithm for solving cross-coupled algebraic Riccati equations of singularly perturbed Nash games. , 0, , .		4
41	Near-optimal Nash strategy for multiparameter singularly perturbed systems. , 2004, , .		3
42	Guaranteed Cost Control of Uncertain Singularly Perturbed Systems via Static Output Feedback. , 0, , .		3
43	Nash Strategies for Large-Scale Stochastic Delay Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 5890-5895.	0.4	3
44	Robust Incentive Stackelberg Games for Stochastic LPV Systems. , 2018, , .		3
45	Robust incentive Stackelberg strategy for Markov jump linear stochastic systems via static output feedback. IET Control Theory and Applications, 2020, 14, 1246-1254.	2.1	3
46	Team-Optimal Closed-Loop Stackelberg Strategies for Discrete-Time Descriptor Systems. , 1995, , 377-394.		3
47	Robust Incentive Stackelberg Games With a Large Population for Stochastic Mean-Field Systems. , 2022, 6, 1934-1939.		3
48	An order reduction procedure to composite Nash solution of singularly perturbed systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1999, 32, 3017-3022.	0.4	2
49	RECURSIVE APPROACH OF Hâˆž OPTIMAL FILTERING FOR MULTIPARAMETER SINGULARLY PERTURBED SYSTEMS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2002, 35, 289-294.	0.4	2
50	Near-optimal H/sub âˆž/ state feedback control of power systems. , 0, , .		2
51	Decentralized guaranteed cost PID control for uncertain large-scale deterministic and stochastic discrete-time systems with additive gain. , 2010, , .		2
52	Pareto-optimal solutions for Markov jump stochastic systems with delay. , 2013, , .		2
53	Finite horizon H<inf>âˆž</inf> control for stochastic systems with multiple decision makers. , 2015, , .		2
54	Gain-Scheduled Nash Games with H âˆž Constraint for Stochastic LPV Systems * *This work was supported by JSPS KAKENHI Grant Numbers 26330027 and 16K00029.. IFAC-PapersOnLine, 2017, 50, 1478-1483.	0.9	2

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55	Multi-leader-Follower Incentive Stackelberg Game for Infinite-Horizon Markov Jump Linear Stochastic Systems with H_âˆž Constraint. , 2018, , .		2
56	Robust Nash Static Output Feedback Strategy for Uncertain Markov Jump Delay Stochastic Systems. , 2019, , .		2
57	Infinite Horizon Stackelberg Games With a Large Follower Population for Stochastic LPV Systems. , 2022, 6, 1034-1039.		2
58	Forecasting of Future Medical Care Expenditure in Japan Using a System Dynamics Model. Inquiry (United States), 2022, 59, 004695802210913.	0.9	2
59	H 2 guaranteed cost control problem of singularly perturbed systems with uncertainties. International Journal of Systems Science, 2001, 32, 1333-1343.	5.5	1
60	A new method for H/sub 2/ guaranteed cost control problem of singularly perturbed uncertain systems. , 0, , .		1
61	FEEDBACK CONTROL OF LINEAR MULTIPARAMETER SINGULARLY PERTURBED SYSTEMS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2002, 35, 335-340.	0.4	1
62	Numerical computation of cross-coupled algebraic Riccati equations related toH2/Hâˆž control problem for singularly perturbed systems. International Journal of Robust and Nonlinear Control, 2004, 14, 697-717.	3.7	1
63	NUMERICAL COMPUTATION OF PARETO OPTIMAL STRATEGY FOR GENERAL MULTIPARAMETER SINGULARLY PERTURBED SYSTEMS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 471-476.	0.4	1
64	Neural-Based Decentralized Robust Control of Large-Scale Uncertain Nonlinear Systems with Guaranteed H_∞ Performance. , 2006, , .		1
65	Numerical Solution of Output Feedback H-Constrained LQG Control Problem. , 2007, , .		1
66	Robust stabilization of multimodeling systems via guaranteed cost control theory. Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi), 2007, 160, 49-59.	0.4	1
67	Numerical computation for solving algebraic Riccati equations of weakly coupled systems. Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi), 2007, 160, 39-48.	0.4	1
68	Stochastic Pareto near-optimal strategy for weakly-coupled large-scale systems with imperfect local state measurements. , 2008, , .		1
69	A numerical computation of linear quadratic dynamic games for stochastic systems with state- and control-dependent noise. , 2010, , .		1
70	An approximate Pareto strategy design for weakly coupled large scale discrete-time systems with state- and control-dependent noise. , 2010, , .		1
71	Static output feedback strategy of stochastic Nash games for weakly-coupled large-scale systems. , 2010, , .		1
72	Soft-constrained robust equilibria in stochastic differential games. , 2013, , .		1

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73	Optimal platform strategies in the smartphone market. Electronics and Communications in Japan, 2013, 96, 1-10.	0.5	1
74	Finite-horizon dynamic games for a class of nonlinear stochastic systems. , 2015, , .		1
75	H_{âˆž} constraint incentive Stackelberg game for discrete-time stochastic systems. , 2017, , .		1
76	Incentive Stackelberg-Nash Strategy with Disturbance Attenuation for Stochastic LPV Systems. , 2018, , .		1
77	Robust Nash Strategy for Uncertain Delay Systems with LSTM and Its Application for TCP/AQM Congestion Control. , 2019, , .		1
78	Gain-Scheduled Robust Pareto Static Output Feedback Strategy for Stochastic LPV Systems. , 2019, , .		1
79	Stackelberg strategies for singularly perturbed stochastic systems. , 2013, , .		1
80	Guaranteed cost control of multimodeling systems. , 2004, , .		1
81	Revenue Share between Layers and Investment Incentive for ISP in the Internet Market. IEEJ Transactions on Electronics, Information and Systems, 2011, 131, 918-925.	0.2	1
82	Opitmal Platform Strategies in the Smartphone Market. IEEJ Transactions on Electronics, Information and Systems, 2012, 132, 467-476.	0.2	1
83	A dynamic games approach to disturbance attenuation control of discrete-time descriptor systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1999, 32, 3171-3176.	0.4	0
84	The linear quadratic dynamic game for discrete-time descriptor systems. , 0, , .		0
85	Robust H/sub /spl infin// control problem for nonstandard singularly perturbed systems and application. , 2001, , .		0
86	THE LINEAR QUADRATIC DYNAMIC GAME FOR DISCRETE-TIME DESCRIPTOR SYSTEMS. International Game Theory Review, 2003, 05, 361-374.	0.5	0
87	GROUP DIFFERENTIAL GAMES FOR MULTIPARAMETER SINGULARLY PERTURBED SYSTEMS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 159-164.	0.4	0
88	Guaranteed cost control for uncertain stochastic systems with multiple decision makers via static output feedback. , 2009, , .		0
89	Optimal Revenue-Sharing and Network Investment Strategies in Internet Market. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 5896-5901.	0.4	0
90	Optimal Incentive Design of Wellness Programs That Encourage Behavior Change to Health Improvement in Health Insurance Subscriber. Journal of Real Options and Strategy, 2016, 9, 1-22.	0.1	0

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91	Open-Loop Stackelberg Games for Stochastic Systems. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2017, E100.A, 989-995.	0.3	0
92	Differential Games for Weakly Coupled Large-Scale Linear Stochastic Systems with an Hâˆž-Constraint. International Game Theory Review, 2018, 20, 1750025.	0.5	0
93	Closed-Loop Nash Games for Interconnected Positive Nonlinear Systems with $$H_infty $$Hâˆž Constraint. Lecture Notes in Control and Information Sciences, 2019, , 215-224.	1.0	0
94	Incentive Stackelberg Strategy for Weakly-Coupled Large-Scale Systems. , 2019, , .		0
95	Hâˆž Constrained Pareto Suboptimal Strategy for Stochastic LPV Time-Delay Systems. International Game Theory Review, 0, , 2150010.	0.5	0
96	Robust static output feedback Nash strategy for uncertain Markov jump linear stochastic systems. IET Control Theory and Applications, 2021, 15, 1559-1570.	2.1	0
97	Numerical Algorithm for Solving Cross-Coupled Multiparameter Algebraic Riccati Equations of Multimodeling Systems Related to Nash Games. , 2003, , 359-371.		0
98	Robust Stabilization of Multimodeling Systems via Guaranteed Cost Control Theory. IEEJ Transactions on Electronics, Information and Systems, 2005, 125, 67-76.	0.2	0
99	Numerical Computation for Solving Algebraic Riccati Equations of Weakly Coupled Systems. IEEJ Transactions on Electronics, Information and Systems, 2005, 125, 1117-1125.	0.2	0
100	HHM-Based Risk Management for Business Gaming. Lecture Notes in Computer Science, 2005, , 792-798.	1.3	0
101	Robust Static Output Feedback Control of Singularly Perturbed Systems. Transactions of the Society of Instrument and Control Engineers, 2006, 42, 483-492.	0.2	0
102	Feature of Dynamic Games for Discrete-time Weakly Coupled Large-scale Stochastic Systems. Transactions of the Society of Instrument and Control Engineers, 2010, 46, 501-510.	0.2	0
103	Dynamic Optimal Revenue-Sharing Strategy in E-Commerce. Lecture Notes in Computer Science, 2011, , 310-319.	1.3	0
104	A Reduced-Order Method to Design Incentive Strategy for the Discrete System with Slow and Fast Modes. , 1991, , .		0
105	Robust Incentive Stackelberg Strategy for Markov Jump Delay Stochastic Systems via Static Output Feedback. IFAC-PapersOnLine, 2020, 53, 6709-6714.	0.9	0
106	Robust Stackelberg Games via Static Output Feedback Strategy for Uncertain Stochastic Systems with State Delay. IFAC-PapersOnLine, 2020, 53, 7154-7159.	0.9	0
107	Robust Stackelberg Strategy for Stochastic LPV Systems and Application to Wind Power Generator. , 2021, , .		0