Huanshui Zhang

List of Publications by Citations

231 papers	**3,129** citations	**31** h-index	**49** g-index
300 ext. papers	**4,245** ext. citations	**3.5** avg, IF	**5.9** L-index

#	Paper	IF	Citations
231	Distributed consensus for multi-agent systems with delays and noises in transmission channels. *Automatica*, **2011**, 47, 920-934	5.7	165
230	Target Tracking in Wireless Sensor Networks Based on the Combination of KF and MLE Using Distance Measurements. *IEEE Transactions on Mobile Computing*, **2012**, 11, 567-576	4.6	122
229	Generalized Lyapunov Equation Approach to State-Dependent Stochastic Stabilization/Detectability Criterion. *IEEE Transactions on Automatic Control*, **2008**, 53, 1630-1642	5.9	109
228	Consensus conditions for general second-order multi-agent systems with communication delay. *Automatica*, **2017**, 75, 293-298	5.7	98
227	Linear Quadratic Regulation and Stabilization of Discrete-Time Systems With Delay and Multiplicative Noise. *IEEE Transactions on Automatic Control*, **2015**, 60, 2599-2613	5.9	97
226	Stabilization of networked control systems with both network-induced delay and packet dropout. *Automatica*, **2015**, 59, 194-199	5.7	91
225	Kalman filtering for multiple time-delay systems. *Automatica*, **2005**, 41, 1455-1461	5.7	88
224	Linear quadratic regulation for linear time-varying systems with multiple input delays. *Automatica*, **2006**, 42, 1465-1476	5.7	87
223	Stochastic . *Automatica*, **2007**, 43, 513-521	5.7	83
222	Scheduling Two GaussMarkov Systems: An Optimal Solution for Remote State Estimation Under Bandwidth Constraint. *IEEE Transactions on Signal Processing*, **2012**, 60, 2038-2042	4.8	66
221	A reorganized innovation approach to linear estimation. *IEEE Transactions on Automatic Control*, **2004**, 49, 1810-1814	5.9	62
220	Convergence and Mean Square Stability of Suboptimal Estimator for Systems With Measurement Packet Dropping. *IEEE Transactions on Automatic Control*, **2012**, 57, 1248-1253	5.9	59
219	Input delay margin for consensusability of multi-agent systems. *Automatica*, **2013**, 49, 1816-1820	5.7	58
218	Robust Kalman Filtering for Discrete-Time Systems With Measurement Delay. *IEEE Transactions on Circuits and Systems Part 2: Express Briefs*, **2007**, 54, 522-526		58
217	Optimal sensor scheduling for multiple linear dynamical systems. *Automatica*, **2017**, 75, 260-270	5.7	56
216	An innovation approach to H$infin; prediction for continuous-time systems with application to systems with delayed measurements*1. *Automatica*, **2004**, 40, 1253-1261	5.7	56
215	Infinite horizon linear quadratic optimal control for discrete-time stochastic systems. *Asian Journal of Control*, **2008**, 10, 608-615	1.7	54

214 . *IEEE Transactions on Signal Processing*, **2006**, 54, 1681-1688   4.8   51

213 Stochastic H2/H∞ control with (x,u,v)-dependent noise: Finite horizon case. *Automatica*, **2006**, 42, 1891-1898   5.7   51

212 Control for Itô Stochastic Systems With Input Delay. *IEEE Transactions on Automatic Control*, **2017**, 62, 350-365   5.9   46

211 H_{∞} Control of Discrete-Time Systems With Multiple Input Delays. *IEEE Transactions on Automatic Control*, **2007**, 52, 271-283   5.9   45

210 Consensusability of multi-agent systems with time-varying communication delay. *Systems and Control Letters*, **2014**, 65, 37-42   2.4   43

209 Linear estimation for random delay systems. *Systems and Control Letters*, **2011**, 60, 450-459   2.4   42

208 Optimal filtering for networked systems with Markovian communication delays. *Automatica*, **2013**, 49, 3097-3104   5.7   39

207 Optimal Control and Stabilization for Networked Control Systems With Packet Dropout and Input Delay. *IEEE Transactions on Circuits and Systems II: Express Briefs*, **2017**, 64, 1087-1091   3.5   38

206 Dynamic sensor transmission power scheduling for remote state estimation. *Automatica*, **2014**, 50, 1235-1242   5.7   37

205 Optimal estimation for continuous-time systems with delayed measurements. *IEEE Transactions on Automatic Control*, **2006**, 51, 823-827   5.9   37

204 Containment control of multi-agent systems by exploiting the control inputs of neighbors. *International Journal of Robust and Nonlinear Control*, **2014**, 24, 2803-2818   3.6   36

203 Linear optimal filtering for discrete-time systems with random jump delays. *Signal Processing*, **2009**, 89, 1121-1128   4.4   35

202 Consensus problems for discrete-time agents with communication delay. *International Journal of Control, Automation and Systems*, **2017**, 15, 1515-1523   2.9   33

201 Optimal recursive filtering, prediction, and smoothing for singular stochastic discrete-time systems. *IEEE Transactions on Automatic Control*, **1999**, 44, 2154-2158   5.9   33

200 Output Feedback Control and Stabilization for Networked Control Systems With Packet Losses. *IEEE Transactions on Cybernetics*, **2017**, 47, 2223-2234   10.2   30

199 Robust filtering under stochastic parametric uncertainties. *Automatica*, **2004**, 40, 1583-1589   5.7   29

198 How Can Online Schedules Improve Communication and Estimation Tradeoff?. *IEEE Transactions on Signal Processing*, **2013**, 61, 1625-1631   4.8   27

197 Sufficient and Necessary Open-Loop Stackelberg Strategy for Two-Player Game With Time Delay. *IEEE Transactions on Cybernetics*, **2016**, 46, 438-49   10.2   26

196	Necessary and Sufficient Condition for Two-Player Stackelberg Strategy. *IEEE Transactions on Automatic Control*, **2015**, 60, 1356-1361	5.9	25
195	Necessary and Sufficient Stabilizing Conditions for Networked Control Systems With Simultaneous Transmission Delay and Packet Dropout. *IEEE Transactions on Automatic Control*, **2017**, 62, 4011-4016	5.9	23
194	Consensus control for a network of high order continuous-time agents with communication delays. *Automatica*, **2018**, 89, 144-150	5.7	22
193	Consensusability of Multiagent Systems With Delay and Packet Dropout Under Predictor-Like Protocols. *IEEE Transactions on Automatic Control*, **2019**, 64, 3506-3513	5.9	22
192	LQ control for Itô type stochastic systems with input delays. *Automatica*, **2013**, 49, 3538-3549	5.7	20
191	Stochastic Approximation Approach for Consensus and Convergence Rate Analysis of Multiagent Systems. *IEEE Transactions on Automatic Control*, **2012**, 57, 3163-3168	5.9	20
190	Dynamic state estimation for power networks using distributed MAP technique. *Automatica*, **2016**, 73, 27-37	5.7	20
189	Consensusability of linear multi-agent systems with time delay. *International Journal of Robust and Nonlinear Control*, **2016**, 26, 2529-2541	3.6	19
188	Further Results on the Achievable Delay Margin Using LTI Control. *IEEE Transactions on Automatic Control*, **2016**, 61, 3134-3139	5.9	19
187	A leader-follower stochastic linear quadratic differential game with time delay. *Science China Information Sciences*, **2018**, 61, 1	3.4	19
186	Receding horizon control for multiplicative noise stochastic systems with input delay. *Automatica*, **2017**, 81, 390-396	5.7	18
185	Optimal Filtering for ${\rm It}{\mathhat{o}}$-Stochastic Continuous-Time Systems With Multiple Delayed Measurements. *IEEE Transactions on Automatic Control*, **2013**, 58, 1872-1877	5.9	18
184	Consensus for high-order multi-agent systems with communication delay. *Science China Information Sciences*, **2017**, 60, 1	3.4	17
183	Stabilization Control for Linear Continuous-Time Mean-Field Systems. *IEEE Transactions on Automatic Control*, **2019**, 64, 3461-3468	5.9	17
182	Optimal Stabilization Control for Discrete-Time Mean-Field Stochastic Systems. *IEEE Transactions on Automatic Control*, **2019**, 64, 1125-1136	5.9	17
181	Output Feedback Control and Stabilization for Multiplicative Noise Systems With Intermittent Observations. *IEEE Transactions on Cybernetics*, **2018**, 48, 2128-2138	10.2	16
180	Robust model predictive control for continuous uncertain systems with state delay. *Journal of Control Theory and Applications*, **2008**, 6, 189-194		16
179	Decentralized control for linear systems with multiple input channels. *Science China Information Sciences*, **2019**, 62, 1	3.4	15

178	Consensus seeking for discrete-time multi-agent systems with communication delay. *IEEE/CAA Journal of Automatica Sinica*, **2015**, 2, 151-157	7	15
177	Real-time Kalman filtering based on distributed measurements. *International Journal of Robust and Nonlinear Control*, **2013**, 23, 1597-1608	3.6	14
176	Stochastic linear quadratic regulation for discrete-time linear systems with input delay. *Automatica*, **2009**, 45, 2067-2073	5.7	14
175	On almost periodic solution of shunting inhibitory cellular neural networks with variable coefficients and time-varying delays. *Nonlinear Analysis: Real World Applications*, **2008**, 9, 2326-2336	2.1	14
174	Quantized stabilization for stochastic discrete-time systems with multiplicative noises. *International Journal of Robust and Nonlinear Control*, **2013**, 23, 591-601	3.6	13
173	Time-inconsistent stochastic linear quadratic control for discrete-time systems. *Science China Information Sciences*, **2017**, 60, 1	3.4	13
172	Design and Analysis of Distributed Optimal Controller for Identical Multiagent Systems. *Asian Journal of Control*, **2015**, 17, 263-273	1.7	13
171	Adapted and casual maximum principle and analytical solution to optimal control for stochastic multiplicative-noise systems with multiple input-delays **2012**,		13
170	Distributed power control for time varying systems: performance and convergence analysis. *IEEE Transactions on Vehicular Technology*, **2005**, 54, 1896-1904	6.8	12
169	H/spl infin/ deconvolution filtering, prediction, and smoothing: a Krein space polynomial approach. *IEEE Transactions on Signal Processing*, **2000**, 48, 888-892	4.8	12
168	Delay-Dependent Algebraic Riccati Equation to Stabilization of Networked Control Systems: Continuous-Time Case. *IEEE Transactions on Cybernetics*, **2018**, 48, 2783-2794	10.2	11
167	Robust consensus for linear multi-agent systems with noises. *IET Control Theory and Applications*, **2016**, 10, 2348-2356	2.5	11
166	Optimal control with irregular performance. *Science China Information Sciences*, **2019**, 62, 1	3.4	11
165	An innovation approach to H/sub /spl infin// fixed-lag smoothing for continuous time-varying systems. *IEEE Transactions on Automatic Control*, **2004**, 49, 2240-2244	5.9	11
164	Optimal Control and Stabilization for Networked Control Systems With Asymmetric Information. *IEEE Transactions on Control of Network Systems*, **2020**, 7, 1355-1365	4	10
163	Constrained consensus of discrete-time multi-agent systems with time delay. *International Journal of Systems Science*, **2018**, 49, 947-953	2.3	10
162	Collaborative target tracking in WSNs using the combination of maximum likelihood estimation and Kalman filtering. *Journal of Control Theory and Applications*, **2013**, 11, 27-34		10
161	A new approach to distributed control for multi-agent systems based on approximate upper and lower bounds. *International Journal of Control, Automation and Systems*, **2017**, 15, 2507-2515	2.9	10

160	Indefinite linear quadratic optimal control problem for singular discrete-time system with multiple input delays. *Automatica*, **2009**, 45, 2458-2461	5.7	10
159	White noise H fixed-lag smoothing for continuous time systems. *Signal Processing*, **2007**, 87, 432-440	4.4	10
158	An analysis of global exponential stability of bidirectional associative memory neural networks with constant time delays. *Neurocomputing*, **2007**, 70, 1382-1389	5.4	10
157	Infinite Horizon LQ Optimal Control for Discrete-Time Stochastic Systems **2006**,		10
156	Achievable delay margin using LTI control for plants with unstable complex poles. *Science China Information Sciences*, **2018**, 61, 1	3.4	9
155	Linear quadratic tracking problem for discrete-time systems with multiple delays in single input channel. *International Journal of Robust and Nonlinear Control*, **2010**, 20, 1379-1394	3.6	9
154	Observer-based robust consensus control for multi-agent systems with noises. *Neurocomputing*, **2016**, 207, 408-415	5.4	9
153	Consensus Error Calculation for Multiagent Systems With Both System and Measurement Noises. *IEEE Transactions on Control of Network Systems*, **2018**, 5, 1457-1466	4	8
152	Consensus design for continuous-time multi-agent systems with communication delay. *Journal of Systems Science and Complexity*, **2014**, 27, 701-711	1	8
151	A new distributed localization method for sensor networks **2013**,		8
150	A robust channel estimator for DS-CDMA systems under multipath fading channels. *IEEE Transactions on Signal Processing*, **2006**, 54, 13-22	4.8	8
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148	Delayed Optimal Control of Stochastic LQ Problem. *SIAM Journal on Control and Optimization*, **2017**, 55, 3370-3407	1.9	7
147	General linear forward and backward Stochastic difference equations with applications. *Automatica*, **2018**, 96, 40-50	5.7	7
146	Sensor selection based on the fisher information of the Kalman filter for target tracking in WSNs **2014**,		7
145	Finite horizon H/sub /spl infin// fixed-lag smoothing for time-varying continuous systems. *IEEE Transactions on Circuits and Systems Part 2: Express Briefs*, **2004**, 51, 496-499		7
144	Linear quadratic regulation for discrete-time systems with multiplicative noise and multiple input delays. *Optimal Control Applications and Methods*, **2017**, 38, 295-316	1.7	6
143	Further results on stabilization for NCSs with packet losses and transmission delay: UDP case. *Journal of the Franklin Institute*, **2019**, 356, 4601-4621	4	6

142	Optimal Output Feedback Control and Stabilization for NCSs with Packet Dropout and Delay: TCP Case. *Journal of Systems Science and Complexity*, **2018**, 31, 147-160	1	6
141	. *IEEE Transactions on Aerospace and Electronic Systems*, **2017**, 53, 3079-3090	3.7	6
140	Quantized output feedback control with multiplicative measurement noises. *International Journal of Robust and Nonlinear Control*, **2015**, 25, 1338-1351	3.6	6
139	Target tracking based on the extended H-infinity filter in wireless sensor networks. *Journal of Control Theory and Applications*, **2011**, 9, 479-486		6
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137	. *IEEE Transactions on Vehicular Technology*, **2008**, 57, 819-827	6.8	6
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135	Performance comparison of distributed state estimation algorithms for power systems. *Journal of Systems Science and Complexity*, **2017**, 30, 595-615	1	5
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132	Stochastic recursive optimal control problem with time delay and applications. *Mathematical Control and Related Fields*, **2015**, 5, 859-888	1.5	5
131	Bounded consensus control for stochastic multi-agent systems with additive noises. *Neurocomputing*, **2020**, 408, 72-79	5.4	5
130	Optimal control for mean-field system: Discrete-time case **2016**,		5
129	Decentralized Control for Networked Control Systems with Asymmetric Information. *IEEE Transactions on Automatic Control*, **2021**, 1-1	5.9	5
128	Distributed Consensus of Third-order Multi-agent Systems with Communication Delay. *Asian Journal of Control*, **2018**, 20, 956-961	1.7	5
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126	Solution to Mixed H2/H Control for Discrete-Time Systems with (x,u,v) Dependent Noise. *International Journal of Control, Automation and Systems*, **2019**, 17, 273-285	2.9	4
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121	Optimal control for network control systems with state-package dropouts **2015**,		4
120	Optimal state estimation using randomly delayed measurements without time stamping. *International Journal of Robust and Nonlinear Control*, **2014**, 24, 2653-2668	3.6	4
119	H-infinity deconvolution filtering: a Krein space approach in state-space setting. *Journal of Control Theory and Applications*, **2009**, 7, 185-191		4
118	Filtering for discrete-time linear noise delay systems. *International Journal of Control, Automation and Systems*, **2009**, 7, 852-857	2.9	4
117	H Filtering for discrete-time systems with time-varying delay. *International Journal of Control, Automation and Systems*, **2010**, 8, 1159-1170	2.9	4
116	Infinite horizon LQR for systems with multiple delays in a single input channel. *Journal of Control Theory and Applications*, **2010**, 8, 368-374		4
115	Linear Quadratic Regulation for Discrete-time Systems with Multiple Delays in Single Input Channel. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2008**, 41, 13336-13341		4
114	Stochastic H2/H Control with (x,u,v)-dependent Noise		4
113	Mean field linear quadratic control: Uniform stabilization and social optimality. *Automatica*, **2020**, 121, 109088	5.7	4
112	Mean-field games for multiagent systems with multiplicative noises. *International Journal of Robust and Nonlinear Control*, **2019**, 29, 6081-6104	3.6	4
111	Optimal Control and Stabilization for Networked Systems With Input Delay and Markovian Packet Losses. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2021**, 51, 4453-4465	7.3	4
110	Mixed control for discrete-time systems with input delay. *IET Control Theory and Applications*, **2018**, 12, 2221-2231	2.5	4
109	Distributed suboptimal controller synthesis for multi-agent systems. *International Journal of Control, Automation and Systems*, **2015**, 13, 634-642	2.9	3
108	Linear quadratic regulation for discrete-time systems with state delays and multiplicative noise. *Control Theory and Technology*, **2015**, 13, 348-359	1	3
107	Exact Consensus Error for Multi-agent Systems with Additive Noises. *Journal of Systems Science and Complexity*, **2020**, 33, 640-651	1	3

106	Distributed design of approximately optimal controller for identical discrete-time multi-agent systems. *Journal of Systems Science and Complexity*, **2016**, 29, 629-641	1	3
105	Optimal linear estimation for continuous stochastic systems with random observation delays. *International Journal of Robust and Nonlinear Control*, **2013**, 23, 359-380	3.6	3
104	Containment control of discrete-time multi-agent systems based on delayed neighboursO information **2013**,		3
103	Distributed dynamic state estimation with parameter identification for large-scale systems. *Journal of the Franklin Institute*, **2017**, 354, 6200-6216	4	3
102	Solution to Discrete-Time Linear FBSDEs with Application to Stochastic Control Problem. *IEEE Transactions on Automatic Control*, **2017**, 62, 6602-6607	5.9	3
101	. *IEEE Transactions on Control of Network Systems*, **2015**, 2, 358-369	4	3
100	Linear estimation for random delay systems **2010**,		3
99	OPTIMAL FILTERING IN DISCRETE-TIME SYSTEMS WITH TIME DELAYS AND MARKOVIAN JUMP PARAMETERS. *ANZIAM Journal*, **2009**, 51, 218-233	0.5	3
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97	New estimator and duality of control for multiplicative noise systems with applications to packet dropping and multiple input delay systems **2009**,		3
96	Linear quadratic regulation for systems with time-varying delay. *International Journal of Robust and Nonlinear Control*, **2010**, 20, 285-300	3.6	3
95	A Stochastic Approximation Approach to the Power-Control Problem. *IEEE Transactions on Communications*, **2007**, 55, 878-886	6.9	3
94	Linear Quadratic Regulation for Discrete-Time Systems with Input Delay: Spectral Factorization Approach. *Journal of Systems Science and Complexity*, **2008**, 21, 46-59	1	3
93	Linear quadratic regulation for linear time-varying systems with multiple input delays part I: discrete-time case		3
92	A unified approach to linear estimation for discrete-time systems. II. H/sub /spl infin// estimation		3
91	Linear Quadratic Optimal Control for Discrete-time Markov Jump Linear Systems* **2018**,		3
90	The recovery of sparse initial state based on compressed sensing for discrete-time linear system. *Neurocomputing*, **2016**, 171, 1617-1621	5.4	2
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87	The design of distributed suboptimal controller for multi-agent systems. *International Journal of Robust and Nonlinear Control*, **2015**, 25, 2829-2842	3.6	2
86	Solution to stochastic LQ control problem for Itô systems with state delay or input delay. *Systems and Control Letters*, **2018**, 113, 86-92	2.4	2
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84	Necessary and sufficient stabilizing conditions for networked control systems with simultaneous transmission delay and packet dropout **2015**,		2
83	Consensus problems in networks of agents with communication delay **2015**,		2
82	Game theory approach to optimal control problem with multi-channel control. *International Journal of Control, Automation and Systems*, **2015**, 13, 58-64	2.9	2
81	Discrete-Time H∞ Preview Control Problem in Finite Horizon. *Mathematical Problems in Engineering*, **2014**, 2014, 1-7	1.1	2
80	New results on node localizable conditions for sensor networks **2012**,		2
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73	Optimal filtering for continuous-time linear systems with time-varying delay **2007**,		2
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70	Linear Quadratic Regulation for Discrete-time Systems with Single Input Delay **2006**,		2
69	Optimal Control Problem for Discrete-Time Markov Jump Systems with Indefinite Weight Costs. *Lecture Notes in Computer Science*, **2018**, 144-152	0.9	2
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67	Stabilization control for Itôstochastic system with indefinite state and control weight costs. *International Journal of Control*, **2020**, 1-8	1.5	2
66	Solution to Delayed Forward and Backward Stochastic Difference Equations and Its Applications. *IEEE Transactions on Automatic Control*, **2021**, 66, 1407-1413	5.9	2
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63	On stabilization of Itôstochastic time-varying systems. *Journal of Systems Science and Complexity*, **2017**, 30, 818-827	1	1
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61	Linear quadratic regulation for Itôsystem with state delays **2017**,		1
60	Stochastic control for discrete-time systems with input delay **2014**,		1
59	Human body detection of Wireless Sensor Network based on RSSI **2014**,		1
58	Optimal linear estimator for discrete-time systems with random delays. *Journal of Control Theory and Applications*, **2012**, 10, 19-27		1
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56	Optimal LQ control for NCSs with packet dropout and delay **2017**,		1
55	Linear Quadratic Gaussian Control for Discrete-time Systems with Delay and Multiplicative Noise. *IFAC-PapersOnLine*, **2017**, 50, 3847-3852	0.7	1
54	On delay-dependent algebraic Riccati equation. *IET Control Theory and Applications*, **2017**, 11, 2506-2513	2.5	1
53	Consensus error of the linear multi-agent systems with both system noises and measurement noises **2015**,		1

52	A distributed MAP approach to dynamic state estimation with applications in power networks **2015**,		1
51	The design and analysis of the distributed suboptimal controller **2014**,		1
50	Target tracking in wireless sensor networks using sequential implementation of the extended Kalman filter **2013**,		1
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48	**2010**,		1
47	Spectral factorization for multiple input delayed discrete-time systems with applications to control. *International Journal of Control, Automation and Systems*, **2010**, 8, 662-666	2.9	1
46	Robust H controller design for continuous-time piecewise time-delay systems. *Asian Journal of Control*, **2008**, 10, 603-607	1.7	1
45	H-infinity measurement-feedback control for discrete-time systems with a single measurement delay. *Journal of Control Theory and Applications*, **2006**, 4, 121-127		1
44	Linear quadratic regulation for linear time-varying systems with multiple input delays part II: continuous-time case		1
43	Optimal Filtering for Stochastic Descriptor Systems with Delayed Measurements **2006**,		1
42	Optimal recursive state estimation for singular stochastic discrete-time systems		1
41	Nash Equilibrium Strategy for Networked Control Systems with State-Package Dropouts **2020**,		1
40	Indefinite Linear Quadratic Mean Field Social Control Problems With Multiplicative Noise. *IEEE Transactions on Automatic Control*, **2021**, 66, 5221-5236	5.9	1
39	Optimal control and stabilisation for large-scale systems with imposed constraints. *IET Control Theory and Applications*, **2020**, 14, 1300-1307	2.5	1
38	Linear quadratic regulation for discrete-time systems with input delay and colored multiplicative noise. *Systems and Control Letters*, **2020**, 143, 104740	2.4	1
37	Stackelberg solution for a two-agent rational expectations model. *Automatica*, **2021**, 129, 109601	5.7	1
36	Stackelberg Game Approach to Mixed H2/H Problem for Continuous-Time System. *Journal of Systems Science and Complexity*, **2019**, 32, 1324-1339	1	1
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34	Indefinite Linear Quadratic Mean Field Social Control with Multiplicative Noise **2019**,		1
33	Exponential Mean Square Stabilization for Itô Stochastic Systems with Input Delay **2019**,		1
32	Optimal Control Problem for Discrete-Time Systems with Colored Multiplicative Noise **2019**,		1
31	Distributed convex optimization based on ADMM and belief propagation methods. *Asian Journal of Control*, **2021**, 23, 1040-1051	1.7	1
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