

Jianghai Hu

List of Publications by Year in descending order

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Version: 2024-02-01

83
papers

875
citations

759233

12
h-index

642732

23
g-index

83
all docs

83
docs citations

83
times ranked

655
citing authors

#	ARTICLE	IF	CITATIONS
1	Exponential stabilization of discrete-time switched linear systems. <i>Automatica</i> , 2009, 45, 2526-2536.	5.0	120
2	On the Value Functions of the Discrete-Time Switched LQR Problem. <i>IEEE Transactions on Automatic Control</i> , 2009, 54, 2669-2674.	5.7	84
3	Infinite-Horizon Switched LQR Problems in Discrete Time: A Suboptimal Algorithm With Performance Analysis. <i>IEEE Transactions on Automatic Control</i> , 2012, 57, 1815-1821.	5.7	74
4	On the Optimal Solutions of the Infinite-Horizon Linear Sensor Scheduling Problem. <i>IEEE Transactions on Automatic Control</i> , 2014, 59, 2825-2830.	5.7	49
5	Application of Reachability Analysis for Stochastic Hybrid Systems to Aircraft Conflict Prediction. <i>IEEE Transactions on Automatic Control</i> , 2009, 54, 913-917.	5.7	41
6	Generating Functions of Switched Linear Systems: Analysis, Computation, and Stability Applications. <i>IEEE Transactions on Automatic Control</i> , 2011, 56, 1059-1074.	5.7	33
7	Primal-Dual Q-Learning Framework for LQR Design. <i>IEEE Transactions on Automatic Control</i> , 2019, 64, 3756-3763.	5.7	29
8	A probabilistic measure of air traffic complexity in 3â€œ airspace. <i>International Journal of Adaptive Control and Signal Processing</i> , 2010, 24, 813-829.	4.1	28
9	Optimal Multi-Agent Coordination Under Tree Formation Constraints. <i>IEEE Transactions on Automatic Control</i> , 2008, 53, 692-705.	5.7	23
10	Efficient suboptimal solutions of switched LQR problems. , 2009, , .		22
11	General approaches for determining the savings potential of optimal control for cooling in commercial buildings having both energy and demand charges. <i>Science and Technology for the Built Environment</i> , 2016, 22, 733-750.	1.7	22
12	Distributed model predictive control via Proximal Jacobian ADMM for building control applications. , 2017, , .		21
13	On the optimal solutions of the infinite-horizon linear sensor scheduling problem. , 2010, , .		18
14	On efficient sensor scheduling for linear dynamical systems. , 2010, , .		18
15	Application of reachability analysis for stochastic hybrid systems to aircraft conflict prediction. , 2008, , .		16
16	Air traffic complexity in future Air Traffic Management systems. <i>Journal of Aerospace Operations</i> , 2012, 1, 281-299.	0.1	16
17	Resilient Stabilization of Switched Linear Control Systems Against Adversarial Switching. <i>IEEE Transactions on Automatic Control</i> , 2017, 62, 3820-3834.	5.7	16
18	Optimizing formation rigidity under connectivity constraints. , 2010, , .		13

#	ARTICLE	IF	CITATIONS
19	A multi-agent control based demand response strategy for multi-zone buildings. , 2016, , .		12
20	Periodic Stabilization of Discrete-Time Switched Linear Systems. IEEE Transactions on Automatic Control, 2017, 62, 3382-3394.	5.7	11
21	Sequential parametric convex approximation algorithm for bilinear matrix inequality problem. Optimization Letters, 2019, 13, 741-759.	1.6	11
22	A sequential parametric convex approximation method for solving bilinear matrix inequalities. , 2016, , .		10
23	Analysis of Distributed Random Grouping for Aggregate Computation on Wireless Sensor Networks with Randomly Changing Graphs. IEEE Transactions on Parallel and Distributed Systems, 2008, 19, 1136-1149.	5.6	9
24	On the value functions of the optimal quadratic regulation problem for discrete-time switched linear systems. , 2008, , .		8
25	Stability analysis of discrete-time piecewise-linear systems: A generating function approach. International Journal of Control, Automation and Systems, 2014, 12, 1005-1010.	2.7	8
26	Semistability of switched linear systems with applications to distributed sensor networks: A generating function approach. , 2011, , .		7
27	Buffer Management for Power Reduction Using Hybrid Control. , 0, , .		6
28	Optimal Power Modes Scheduling Using Hybrid Systems. Proceedings of the American Control Conference, 2007, , .	0.0	6
29	Low-Power Buffer Management for Streaming Data. IEEE Transactions on Circuits and Systems for Video Technology, 2007, 17, 143-157.	8.3	6
30	A probabilistic approach to air traffic complexity evaluation. , 2009, , .		6
31	Adaptive robust control: A piecewise Lyapunov function approach. , 2009, , .		6
32	A novel graph-based invariant region descriptor for image matching. , 2012, , .		6
33	New region feature descriptor-based image registration method. , 2012, , .		6
34	Probabilistic Map Building by Coordinated Mobile Sensors. , 0, , .		5
35	Comparative evaluation of model predictive control strategies for a building HVAC system. , 2013, , .		5
36	Distributed Algorithms for Solving Locally Coupled Optimization Problems on Agent Networks. , 2018, , .		5

#	ARTICLE	IF	CITATIONS
37	Distributed Solution of GNEP over Networks via the Douglas-Rachford Splitting Method. , 2021, , .		5
38	Symmetry of Solutions to the Optimal Sojourn Time Control Problem. , 0, , .		4
39	Application of stochastic hybrid systems in power management of streaming data. , 2006, , .		4
40	A numerical approximation scheme for reachability analysis of stochastic hybrid systems with state-dependent switchings. , 2007, , .		4
41	Stability of discrete-time conewise linear inclusions and switched linear systems. , 2010, , .		4
42	Stability of switched linear systems on cones: A generating function approach. , 2010, , .		4
43	Probability of conflict analysis of 3D aircraft flight based on two-level Markov chain approximation approach. , 2010, , .		4
44	A study of the generalized input-to-state ∞ -gain of discrete-time switched linear systems. , 2011, , .		4
45	Link resource allocation for maximizing the rigidity of multi-agent formations. , 2011, , .		4
46	Responsiveness and manipulability of formations of multi-robot networks. , 2012, , .		4
47	On the graph control Lyapunov function for stabilization of discrete-time switched linear systems. , 2017, , .		4
48	Adaptive Unknown Input and State Observers. , 2019, , .		4
49	Interesting conjugate points in formation constrained optimal multi-agent coordination. , 0, , .		3
50	A case study of formation constrained optimal multi-agent coordination. , 2007, , .		3
51	On sensor scheduling of linear dynamical systems with error bounds. , 2010, , .		3
52	Energy optimal control in mobile sensor networks using hybrid systems theory. , 2011, , .		3
53	D-optimal experimental design for calibration deterministic errors of DTG. , 2012, , .		3
54	Dynamic programming based approaches to optimal rooftop unit coordination. Science and Technology for the Built Environment, 2015, 21, 752-760.	1.7	3

#	ARTICLE	IF	CITATIONS
55	Design of energy management system of Plug-in Hybrid Electric Vehicle using hybrid systems. , 2015, , .		3
56	Stabilizability of Discrete-Time Controlled Switched Linear Systems. IEEE Transactions on Automatic Control, 2018, 63, 3516-3522.	5.7	3
57	Symmetry of Solutions to the Generalized 1-D Optimal Sojourn Time Control Problem. , 2006, , .		2
58	Low power management for autonomous mobile robots using optimal control. , 2007, , .		2
59	Optimal buffer management using hybrid systems. , 2007, , .		2
60	An ODE Comparison Theorem With Application in the Optimal Exit Time Control Problem. IEEE Transactions on Automatic Control, 2010, 55, 164-170.	5.7	2
61	Variable neural adaptive robust output feedback control of uncertain systems. , 2010, , .		2
62	Distributed network localization using angle-of-arrival information Part I: Continuous-time protocol. , 2013, , .		2
63	Approximate Dynamic Programming for Building Control Problems with Occupant Interactions. , 2018, , .		2
64	Simulation-Based Policy Gradient and Its Building Control Application. , 2018, , .		2
65	Low-power buffer management using hybrid control. , 2006, , .		1
66	Variable neural adaptive robust observer for uncertain systems. , 2011, , .		1
67	An approach to air traffic density estimation and its application in aircraft trajectory planning. , 2012, , .		1
68	Stability analysis of inertial navigation systemâ€™s aided phaseâ€™lockâ€™loop via an integral quadratic constraint approach. IET Radar, Sonar and Navigation, 2014, 8, 1100-1108.	1.8	1
69	Graph control Lyapunov function for stabilization of discrete-time switched linear systems. , 2016, , .		1
70	Local state-feedback stabilization of nonlinear fuzzy systems with measurement errors in the state. , 2016, , .		1
71	Periodic stabilization of discrete-time controlled switched linear systems. , 2017, , .		1
72	A Piecewise Envelope Approach to H_∞ Control of Nonlinear Systems. Asian Journal of Control, 2018, 20, 1881-1890.	3.0	1

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73	Stabilization of Switched Linear Systems Using Continuous Control Input against Known Adversarial Switching. , 2018, , .		1
74	A Primal Decomposition Approach to Globally Coupled Aggregative Optimization over Networks. , 2021, , .		1
75	On the convergence of distributed random grouping for average consensus on sensor networks with time-varying graphs. , 2007, , .		0
76	Approaches for stochastic safety analysis arising in ATM application. , 2012, , .		0
77	Addendum to "Generating Functions of Switched Linear Systems: Analysis, Computation, and Stability Applications" [May 11 1059-1074]. IEEE Transactions on Automatic Control, 2013, 58, 1887-1887.	5.7	0
78	Distributed network localization using angle-of-arrival information Part II: Discrete-time algorithm and error analysis. , 2013, , .		0
79	Periodic stabilization of switched linear systems revisited. , 2016, , .		0
80	A Differentially Private Distributed Solution Approach to the Model Predictive Control of Building Clusters. , 2018, , .		0
81	Column Partition Based Distributed Algorithms for Coupled Convex Sparse Optimization: Dual and Exact Regularization Approaches. IEEE Transactions on Signal and Information Processing Over Networks, 2021, 7, 375-391.	2.8	0
82	Dynamic Programming for POMDP with Jointly Discrete and Continuous State-Spaces. , 2019, , .		0
83	Distributed Solutions of Convex-Concave Games on Networks. , 2019, , .		0