

# Jianghai Hu

## List of Publications by Year in descending order

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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	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
2	A Primal Decomposition Approach to Globally Coupled Aggregative Optimization over Networks. , 2021, , .		1
3	Distributed Solution of GNEP over Networks via the Douglas-Rachford Splitting Method. , 2021, , .		5
4	Sequential parametric convex approximation algorithm for bilinear matrix inequality problem. Optimization Letters, 2019, 13, 741-759.	1.6	11
5	Adaptive Unknown Input and State Observers. , 2019, , .		4
6	Primal-Dual Q-Learning Framework for LQR Design. IEEE Transactions on Automatic Control, 2019, 64, 3756-3763.	5.7	29
7	Dynamic Programming for POMDP with Jointly Discrete and Continuous State-Spaces. , 2019, , .		0
8	Distributed Solutions of Convex-Concave Games on Networks. , 2019, , .		0
9	Stabilizability of Discrete-Time Controlled Switched Linear Systems. IEEE Transactions on Automatic Control, 2018, 63, 3516-3522.	5.7	3
10	A Piecewise Envelope Approach to $H_\infty$ Control of Nonlinear Systems. Asian Journal of Control, 2018, 20, 1881-1890.	3.0	1
11	Distributed Algorithms for Solving Locally Coupled Optimization Problems on Agent Networks. , 2018, , .		5
12	A Differentially Private Distributed Solution Approach to the Model Predictive Control of Building Clusters. , 2018, , .		0
13	Stabilization of Switched Linear Systems Using Continuous Control Input against Known Adversarial Switching. , 2018, , .		1
14	Approximate Dynamic Programming for Building Control Problems with Occupant Interactions. , 2018, , .		2
15	Simulation-Based Policy Gradient and Its Building Control Application. , 2018, , .		2
16	Periodic Stabilization of Discrete-Time Switched Linear Systems. IEEE Transactions on Automatic Control, 2017, 62, 3382-3394.	5.7	11
17	Resilient Stabilization of Switched Linear Control Systems Against Adversarial Switching. IEEE Transactions on Automatic Control, 2017, 62, 3820-3834.	5.7	16
18	Distributed model predictive control via Proximal Jacobian ADMM for building control applications. , 2017, , .		21

#	ARTICLE	IF	CITATIONS
19	Periodic stabilization of discrete-time controlled switched linear systems. , 2017, , .		1
20	On the graph control Lyapunov function for stabilization of discrete-time switched linear systems. , 2017, , .		4
21	A sequential parametric convex approximation method for solving bilinear matrix inequalities. , 2016, , .		10
22	Graph control Lyapunov function for stabilization of discrete-time switched linear systems. , 2016, , .		1
23	Periodic stabilization of switched linear systems revisited. , 2016, , .		0
24	General approaches for determining the savings potential of optimal control for cooling in commercial buildings having both energy and demand charges. Science and Technology for the Built Environment, 2016, 22, 733-750.	1.7	22
25	A multi-agent control based demand response strategy for multi-zone buildings. , 2016, , .		12
26	Local state-feedback stabilization of nonlinear fuzzy systems with measurement errors in the state. , 2016, , .		1
27	Dynamic programming based approaches to optimal rooftop unit coordination. Science and Technology for the Built Environment, 2015, 21, 752-760.	1.7	3
28	Design of energy management system of Plug-in Hybrid Electric Vehicle using hybrid systems. , 2015, , .		3
29	On the Optimal Solutions of the Infinite-Horizon Linear Sensor Scheduling Problem. IEEE Transactions on Automatic Control, 2014, 59, 2825-2830.	5.7	49
30	Stability analysis of inertial navigation systemâ€œaided phaseâ€œlockâ€œloop via an integral quadratic constraint approach. IET Radar, Sonar and Navigation, 2014, 8, 1100-1108.	1.8	1
31	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
32	Comparative evaluation of model predictive control strategies for a building HVAC system. , 2013, , .		5
33	Addendum to â€œGenerating Functions of Switched Linear Systems: Analysis, Computation, and Stability Applicationsâ€œ[May 11 1059-1074]. IEEE Transactions on Automatic Control, 2013, 58, 1887-1887.	5.7	0
34	Distributed network localization using angle-of-arrival information Part II: Discrete-time algorithm and error analysis. , 2013, , .		0
35	Distributed network localization using angle-of-arrival information Part I: Continuous-time protocol. , 2013, , .		2
36	D-optimal experimental design for calibration deterministic errors of DTG. , 2012, , .		3

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37	Approaches for stochastic safety analysis arising in ATM application. , 2012, , .		0
38	Infinite-Horizon Switched LQR Problems in Discrete Time: A Suboptimal Algorithm With Performance Analysis. IEEE Transactions on Automatic Control, 2012, 57, 1815-1821.	5.7	74
39	Responsiveness and manipulability of formations of multi-robot networks. , 2012, , .		4
40	An approach to air traffic density estimation and its application in aircraft trajectory planning. , 2012, , .		1
41	A novel graph-based invariant region descriptor for image matching. , 2012, , .		6
42	New region feature descriptor-based image registration method. , 2012, , .		6
43	Air traffic complexity in future Air Traffic Management systems. Journal of Aerospace Operations, 2012, 1, 281-299.	0.1	16
44	Variable neural adaptive robust observer for uncertain systems. , 2011, , .		1
45	Generating Functions of Switched Linear Systems: Analysis, Computation, and Stability Applications. IEEE Transactions on Automatic Control, 2011, 56, 1059-1074.	5.7	33
46	Semistability of switched linear systems with applications to distributed sensor networks: A generating function approach. , 2011, , .		7
47	A study of the generalized input-to-state $\  \cdot \ _2$ -gain of discrete-time switched linear systems. , 2011, , .		4
48	Energy optimal control in mobile sensor networks using hybrid systems theory. , 2011, , .		3
49	Link resource allocation for maximizing the rigidity of multi-agent formations. , 2011, , .		4
50	A probabilistic measure of air traffic complexity in 3D airspace. International Journal of Adaptive Control and Signal Processing, 2010, 24, 813-829.	4.1	28
51	Optimizing formation rigidity under connectivity constraints. , 2010, , .		13
52	On the optimal solutions of the infinite-horizon linear sensor scheduling problem. , 2010, , .		18
53	On sensor scheduling of linear dynamical systems with error bounds. , 2010, , .		3
54	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

#	ARTICLE	IF	CITATIONS
55	Stability of discrete-time conewise linear inclusions and switched linear systems. , 2010, , .		4
56	On efficient sensor scheduling for linear dynamical systems. , 2010, , .		18
57	Stability of switched linear systems on cones: A generating function approach. , 2010, , .		4
58	Probability of conflict analysis of 3D aircraft flight based on two-level Markov chain approximation approach. , 2010, , .		4
59	Variable neural adaptive robust output feedback control of uncertain systems. , 2010, , .		2
60	A probabilistic approach to air traffic complexity evaluation. , 2009, , .		6
61	Efficient suboptimal solutions of switched LQR problems. , 2009, , .		22
62	Adaptive robust control: A piecewise Lyapunov function approach. , 2009, , .		6
63	Exponential stabilization of discrete-time switched linear systems. Automatica, 2009, 45, 2526-2536.	5.0	120
64	Application of Reachability Analysis for Stochastic Hybrid Systems to Aircraft Conflict Prediction. IEEE Transactions on Automatic Control, 2009, 54, 913-917.	5.7	41
65	On the Value Functions of the Discrete-Time Switched LQR Problem. IEEE Transactions on Automatic Control, 2009, 54, 2669-2674.	5.7	84
66	Optimal Multi-Agent Coordination Under Tree Formation Constraints. IEEE Transactions on Automatic Control, 2008, 53, 692-705.	5.7	23
67	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
68	Application of reachability analysis for stochastic hybrid systems to aircraft conflict prediction. , 2008, , .		16
69	On the value functions of the optimal quadratic regulation problem for discrete-time switched linear systems. , 2008, , .		8
70	Low power management for autonomous mobile robots using optimal control. , 2007, , .		2
71	Optimal buffer management using hybrid systems. , 2007, , .		2
72	On the convergence of distributed random grouping for average consensus on sensor networks with time-varying graphs. , 2007, , .		0

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73	A case study of formation constrained optimal multi-agent coordination. , 2007, , .		3
74	Optimal Power Modes Scheduling Using Hybrid Systems. Proceedings of the American Control Conference, 2007, , .	0.0	6
75	A numerical approximation scheme for reachability analysis of stochastic hybrid systems with state-dependent switchings. , 2007, , .		4
76	Low-Power Buffer Management for Streaming Data. IEEE Transactions on Circuits and Systems for Video Technology, 2007, 17, 143-157.	8.3	6
77	Symmetry of Solutions to the Generalized 1-D Optimal Sojourn Time Control Problem. , 2006, , .		2
78	Application of stochastic hybrid systems in power management of streaming data. , 2006, , .		4
79	Low-power buffer management using hybrid control. , 2006, , .		1
80	Symmetry of Solutions to the Optimal Sojourn Time Control Problem. , 0, , .		4
81	Buffer Management for Power Reduction Using Hybrid Control. , 0, , .		6
82	Interesting conjugate points in formation constrained optimal multi-agent coordination. , 0, , .		3
83	Probabilistic Map Building by Coordinated Mobile Sensors. , 0, , .		5