

Li Qiu

List of Publications by Year in descending order

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117
papers

1,637
citations

394286

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117
all docs

117
docs citations

117
times ranked

896
citing authors

#	ARTICLE	IF	CITATIONS
1	Feedback Stabilization of Discrete-Time Networked Systems Over Fading Channels. IEEE Transactions on Automatic Control, 2012, 57, 2176-2189.	3.6	229
2	Bias compensation based recursive least-squares identification algorithm for MISO systems. IEEE Transactions on Circuits and Systems Part 2: Express Briefs, 2006, 53, 349-353.	2.3	111
3	Stabilization of Networked Multi-Input Systems With Channel Resource Allocation. IEEE Transactions on Automatic Control, 2013, 58, 554-568.	3.6	93
4	A Distributed Economic Dispatch Strategy for Power-Water Networks. IEEE Transactions on Control of Network Systems, 2022, 9, 356-366.	2.4	90
5	Position control of linear switched reluctance motors for high-precision applications. IEEE Transactions on Industry Applications, 2003, 39, 1350-1362.	3.3	89
6	Stabilization of networked control systems with multirate sampling. Automatica, 2013, 49, 1528-1537.	3.0	80
7	Flocking of the Cucker-Smale Model on General Digraphs. IEEE Transactions on Automatic Control, 2017, 62, 5234-5239.	3.6	72
8	Stabilization of exponentially unstable linear systems with saturating actuators. IEEE Transactions on Automatic Control, 2001, 45, 973-979.	3.6	64
9	Torque and Velocity Ripple Elimination of AC Permanent Magnet Motor Control Systems Using the Internal Model Principle. IEEE/ASME Transactions on Mechatronics, 2004, 9, 436-447.	3.7	55
10	Distributed Algorithms for Computation of Centrality Measures in Complex Networks. IEEE Transactions on Automatic Control, 2017, 62, 2080-2094.	3.6	55
11	Fundamental performance limitations in tracking sinusoidal signals. IEEE Transactions on Automatic Control, 2003, 48, 1371-1380.	3.6	50
12	Unitarily Invariant Metrics on the Grassmann Space. SIAM Journal on Matrix Analysis and Applications, 2005, 27, 507-531.	0.7	48
13	Networked Stabilization of Multi-Input Systems with Channel Resource Allocation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 625-630.	0.4	28
14	MAS Consensus and Delay Limits Under Delayed Output Feedback. IEEE Transactions on Automatic Control, 2017, 62, 4660-4666.	3.6	25
15	Mean square stabilization of multi-input systems over stochastic multiplicative channels. , 2009, , .		24
16	On the phases of a complex matrix. Linear Algebra and Its Applications, 2020, 593, 152-179.	0.4	23
17	Direct State Space Solution of Multirate Sampled-Data H2 Optimal Control. Automatica, 1998, 34, 1431-1437.	3.0	22
18	Characterizing the positive semidefiniteness of signed Laplacians via Effective Resistances. , 2016, , .		22

#	ARTICLE	IF	CITATIONS
19	Design and analysis of a plug-in robust compensator: an application to indirect-field-oriented-control induction machine drives. IEEE Transactions on Industrial Electronics, 2003, 50, 272-282.	5.2	21
20	On Performance Limitation in Tracking a Sinusoid. IEEE Transactions on Automatic Control, 2006, 51, 1320-1325.	3.6	21
21	Linear Quadratic Optimal Control of Continuous-Time LTI Systems With Random Input Gains. IEEE Transactions on Automatic Control, 2016, 61, 2008-2013.	3.6	21
22	Best Achievable Tracking Performance in Sampled-Data Systems via LTI Controllers. IEEE Transactions on Automatic Control, 2008, 53, 2467-2479.	3.6	20
23	Partial-Information State-Based Optimization of Partially Observable Markov Decision Processes and the Separation Principle. IEEE Transactions on Automatic Control, 2014, 59, 921-936.	3.6	17
24	Phase Analysis of MIMO LTI Systems. , 2019, , .		17
25	Connection of Multiplicative/Relative Perturbation in Coprime Factors and Gap Metric Uncertainty. Automatica, 1998, 34, 603-607.	3.0	16
26	Limitations on maximal tracking accuracy. I. Tracking step signals. , 0, , .		14
27	Stabilization of MIMO Systems Over Multiple Independent and Memoryless Fading Noisy Channels. IEEE Transactions on Automatic Control, 2019, 64, 1581-1594.	3.6	14
28	Networked stabilization for multi-input systems over quantized fading channels. Automatica, 2015, 61, 1-8.	3.0	13
29	Limitations on maximal tracking accuracy. 2. Tracking sinusoidal and ramp signals. , 1997, , .		11
30	On Semidefiniteness of Signed Laplacians with Application to Microgrids**This work was supported in parts by the Research Grants Council of Hong Kong Special Administrative Region, China, under the Theme-Based Research Scheme T23-701/14-N, the Knut and Alice Wallenberg Foundation, the Swedish Research Council, and a MURI Grant at the University of Illinois.. IFAC-PapersOnLine, 2016, 49, 97-102.	0.5	11
31	Stabilization of Two-Port Networked Systems With Simultaneous Uncertainties in Plant, Controller, and Communication Channels. IEEE Transactions on Automatic Control, 2020, 65, 1160-1175.	3.6	11
32	On Spectral Properties of Signed Laplacians With Connections to Eventual Positivity. IEEE Transactions on Automatic Control, 2021, 66, 2177-2190.	3.6	11
33	Phases of discrete-time LTI multivariable systems. Automatica, 2022, 142, 110311.	3.0	11
34	A two-port approach to networked feedback stabilization. , 2011, , .		10
35	Preclassical Tools for Postmodern Control: An Optimal and Robust Control Theory for Undergraduate Education. IEEE Control Systems, 2013, 33, 26-38.	1.0	10
36	Duration-deadline jointly differentiated energy services. , 2015, , .		10

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37	Networked stabilization of multi-input systems over shared channels with scheduling/control co-design. <i>Automatica</i> , 2019, 99, 188-194.	3.0	9
38	On the span of Hadamard products of vectors. <i>Linear Algebra and Its Applications</i> , 2007, 422, 304-307.	0.4	8
39	MIMO control using MIMO communication: A Majorization condition for networked stabilizability. , 2015, , .		8
40	Short distance position control for linear switched reluctance motors: a plug-in robust compensator approach. , 0, , .		7
41	On spectral properties of signed Laplacians for undirected graphs. , 2017, , .		7
42	Pre-classical tools for post-modern control. , 0, , .		6
43	Linear quadratic optimal control of continuous-time LTI systems with random input gains. , 2012, , .		6
44	Infinite-horizon linear quadratic optimal control for discrete-time LTI systems with random input gains. , 2013, , .		6
45	Networked robust stabilization with simultaneous uncertainties in plant, controller and communication channels. , 2016, , .		6
46	Constrained (0,1)-matrix completion with a staircase of fixed zeros. <i>Linear Algebra and Its Applications</i> , 2016, 510, 171-185.	0.4	6
47	Controlling a Networked SIS Model via a Single Input over Undirected Graphs. <i>IFAC-PapersOnLine</i> , 2020, 53, 10981-10986.	0.5	6
48	Limitations on optimal tracking performance of discrete time systems. , 1997, , .		5
49	A gain scheduled controller for sinusoidal ripple elimination of AC PM motor systems. , 2007, , .		5
50	Stabilization of networked multi-input systems over AWGN channels with channel resource allocation. , 2011, , .		5
51	Consensus over directed graph: Output feedback and topological constraints. , 2013, , .		5
52	A less conservative robust control method for a class of nonpassive uncertain systems. <i>International Journal of Robust and Nonlinear Control</i> , 2022, 32, 682-697.	2.1	5
53	Extended argument principle and integral design constraints. Part I. A unified formula for classical results. , 0, , .		4
54	Model validation of multirate systems from time-domain experimental data. <i>IEEE Transactions on Automatic Control</i> , 2002, 47, 346-351.	3.6	4

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55	On Performance Limitation in Tracking Sinusoids. , 0, , .		4
56	Robust stabilization of multiplicative/relative uncertain systems and networked feedback control. , 2009, , .		4
57	An Average Performance Limit of MIMO Systems in Tracking Multi-Sinusoids With Partial Signal Information. IEEE Transactions on Automatic Control, 2009, 54, 2001-2006.	3.6	4
58	LQG control of LTI systems with random input and output gains. , 2012, , .		4
59	New Phase of Phase. Journal of Systems Science and Complexity, 2021, 34, 1821-1839.	1.6	4
60	Low Phase-Rank Approximation. Linear Algebra and Its Applications, 2022, 639, 177-204.	0.4	4
61	Topics on multirate systems: frequency response, interpolation, model validation. , 0, , .		3
62	Networked feedback control over fading channels and the relation to H_2 control. , 2012, , .		3
63	Networked feedback stabilization over quantized fading channels. , 2013, , .		3
64	Feedback Stabilization of Networked Systems over Fading Channels with Resource Allocation. IFAC-PapersOnLine, 2015, 48, 363-367.	0.5	3
65	Measure of instability. Journal of Control and Decision, 2015, 2, 87-98.	0.7	3
66	A majorization condition for MIMO stabilizability via MIMO transceivers with pure fading subchannels. , 2015, , .		3
67	Randomized incremental algorithms for the PageRank computation. , 2015, , .		3
68	Feasible channel capacity region for MIMO stabilization via MIMO communication. , 2015, , .		3
69	Market implementation of multiple-arrival multiple-deadline differentiated energy services. Automatica, 2020, 116, 108933.	3.0	3
70	Networked Robust Stability for LTV Systems with Simultaneous Uncertainties in Plant, Controller, and Communication Channels. SIAM Journal on Control and Optimization, 2021, 59, 1-23.	1.1	3
71	Synchronization of Heterogeneous Dynamical Networks via Phase Analysis. IFAC-PapersOnLine, 2020, 53, 3013-3018.	0.5	3
72	Phase Analysis for Discrete-time LTI Multivariable Systems. IFAC-PapersOnLine, 2020, 53, 4398-4403.	0.5	3

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73	COMPLEX AND REAL PERFORMANCE RADII AND THEIR COMPUTATION. International Journal of Robust and Nonlinear Control, 1997, 7, 187-209.	2.1	2
74	A Mixed H_2/H_∞ Control Problem with Controller Degree Constraint. , 2006, , .		2
75	State estimation over a network: Packet-dropping analysis and design. , 2009, , .		2
76	Stabilization of multirate networked control systems. , 2011, , .		2
77	A mixed deterministic and stochastic small gain theorem and its application to networked stabilization. , 2013, , .		2
78	Duration-differentiated energy services with peer-to-peer charging. , 2016, , .		2
79	Stabilization of cascaded two-port networked systems against nonlinear perturbations. , 2017, , .		2
80	A Majorization Condition for Multi-Input Networked Stabilization via Coding/Control Codesign. SIAM Journal on Control and Optimization, 2018, 56, 3129-3148.	1.1	2
81	A Convex Approach to Frisch-Kalman Problem. , 2019, , .		2
82	System Monotonicity and Subspace Tracking: A Geometric Perspective of the Frisch-Shapiro Scheme. IEEE Transactions on Automatic Control, 2022, 67, 5872-5884.	3.6	2
83	Stabilization of linear systems with input constraints. , 0, , .		1
84	Properties of matrix polynomials and MIMO channel identifiability from second order statistics. , 0, , .		1
85	Networked state estimation of MIMO Systems. , 2012, , .		1
86	Modeling quantized fading channels as uncertainty: A quasi-Signal-to-Noise-Ratio approach. , 2013, , .		1
87	Projected spectrahedral cone-invariant realization of an LTI system with nonnegative impulse response. , 2016, , .		1
88	Multi-leader selection in complex networks. , 2016, , .		1
89	A dynamical network framework with application to stability of power networks. , 2017, , .		1
90	Coordinating flexible loads via optimization in the majorization order. , 2017, , .		1

#	ARTICLE	IF	CITATIONS
91	Stability of networked feedback system with frequency-wise bounded uncertainty quartets. , 2017, , .		1
92	Finsler geometries on strictly accretive matrices. Linear and Multilinear Algebra, 0, , 1-19.	0.5	1
93	On the robustness of symmetric systems. , 0, , .		0
94	Complex and real performance radii and their computation. , 0, , .		0
95	Model validation of multirate systems from time-domain experimental data. , 0, , .		0
96	Model validation of multirate systems from time-domain experimental data. , 2001, , .		0
97	Extended argument principle and integral design constraints. II. New integral relations. , 0, , .		0
98	Multirate periodic systems, $\hat{1}/2$ -gap metric and robust stabilization. , 0, , .		0
99	Performance limitation in random sinusoidal signal estimation. , 0, , .		0
100	Performance Limitation of a Linear System in Tracking Sinusoidal Signals. , 0, , .		0
101	A LQG Control Problem with Degree and Robustness Constraints. , 2006, , .		0
102	Interaction Preference of Firms in Industrial Cluster and Evolution of Knowledge Networks: A Model and Simulation. , 2007, , .		0
103	An H_{∞} approach to robust adaptive control. , 2007, , .		0
104	Stabilization of networked multi-input systems with channel resource allocation. , 2008, , .		0
105	A channel/controller co-design approach for infinite-horizon LQR problem with random input gains. , 2013, , .		0
106	Networked stabilization with polar logarithmic quantization. , 2013, , .		0
107	Stabilization of networked multi-input systems over a shared bus with scheduling/control co-design. , 2013, , .		0
108	Continuous-time indefinite linear quadratic optimal control with random input gains. , 2013, , .		0

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109	Networked stabilization of sampled-data systems over quantized fading channels. , 2014, , .		0
110	Differentiated Energy Services: Multiple Arrival Times and Multiple Deadlines * *The work in this paper was partially supported by Research Grants Council of Hong Kong Special Administrative Region, China, under the Theme-Based Research Scheme T23-701/14-N and the Hong Kong PhD Fellowship.. IFAC-PapersOnLine, 2017, 50, 207-212.	0.5	0
111	Stabilizability of Discrete-time SISO System using MIMO Communication. , 2019, , .		0
112	Stabilization of cascaded two-port networked systems with simultaneous nonlinear uncertainties. Automatica, 2021, 123, 109360.	3.0	0
113	Robust Control in Gap Metric. , 2021, , 1941-1947.		0
114	Small Phase Theorem. , 2021, , 2082-2086.		0
115	Some counterexamples related to sectorial matrices and matrix phases. Examples and Counterexamples, 2021, 1, 100019.	0.3	0
116	Robust Control in Gap Metric. , 2019, , 1-7.		0
117	Small Phase Theorem. , 2020, , 1-5.		0