

# Guoxiang Gu

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2298075/publications.pdf>

Version: 2024-02-01

82  
papers

639  
citations

686830

13  
h-index

676716

22  
g-index

82  
all docs

82  
docs citations

82  
times ranked

416  
citing authors

#	ARTICLE	IF	CITATIONS
1	State Consensus for Discrete-Time Multiagent Systems Over Time-Varying Graphs. IEEE Transactions on Automatic Control, 2021, 66, 346-353.	3.6	32
2	Output Feedback Stabilization for Discrete-Time Systems Under Limited Communication. IEEE Transactions on Automatic Control, 2017, 62, 1927-1932.	3.6	33
3	Multi-objective control for discrete-time systems over lossy actuating channel. , 2016, , .		1
4	Feedback Stabilization of a Reduced-Order Model of a Jet in Crossflow. AIAA Journal, 2015, 53, 2472-2481.	1.5	5
5	Consensus control and feedback graph co-design for MIMO discrete-time multi-agent systems. Journal of Control and Decision, 2014, 1, 18-33.	0.7	8
6	Quantized output feedback stabilization over SNR channel. , 2014, , .		0
7	Networked control systems for multi-input plants based on polar logarithmic quantization. Systems and Control Letters, 2014, 69, 16-22.	1.3	11
8	A generalized sector bound approach to feedback stabilization of nonlinear control systems. International Journal of Robust and Nonlinear Control, 2013, 23, 1563-1580.	2.1	5
9	Modeling quantized fading channels as uncertainty: A quasi-Signal-to-Noise-Ratio approach. , 2013, , .		1
10	Networked feedback stabilization over quantized fading channels. , 2013, , .		3
11	Quantized state feedback stabilization with signal-to-noise ratio constraints. , 2013, , .		7
12	Networked feedback stabilization over signal-to-noise ratio constrained channels. , 2013, , .		0
13	Output consensus control for heterogeneous multi-agent systems. , 2013, , .		14
14	Stabilization of Networked Multi-Input Systems With Channel Resource Allocation. IEEE Transactions on Automatic Control, 2013, 58, 554-568.	3.6	93
15	Output feedback stabilization for networked control systems with quantized fading actuating channels. , 2013, , .		12
16	Networked output feedback stabilization with logarithmic quantization errors and multiplicative random noises. , 2013, , .		1
17	A generalized sector bound approach to feedback stabilization of nonlinear control systems. , 2012, , .		0
18	Feedback control for quadratic nonlinear systems. , 2012, , .		1

#	ARTICLE	IF	CITATIONS
19	Consensusability of Discrete-Time Dynamic Multiagent Systems. IEEE Transactions on Automatic Control, 2012, 57, 2085-2089.	3.6	76
20	Networked feedback control over fading channels and the relation to $H_2$ control. , 2012, , .		3
21	Stabilization of networked multi-input systems over AWGN channels with channel resource allocation. , 2011, , .		5
22	A Novel Power-Bearing Approach and Asymptotically Optimum Estimator for Target Motion Analysis. IEEE Transactions on Signal Processing, 2011, 59, 912-922.	3.2	18
23	A two-port approach to networked feedback stabilization. , 2011, , .		10
24	A novel power-bearing approach and asymptotically optimum estimator for target motion analysis. , 2010, , .		0
25	Measurement Complexity of Rayleigh Fading Channels. IEEE Transactions on Vehicular Technology, 2009, 58, 3776-3781.	3.9	0
26	Robust stabilization of multiplicative/relative uncertain systems and networked feedback control. , 2009, , .		4
27	Target motion analysis based on RF power and Doppler measurements. , 2008, , .		2
28	MMSE Interference Suppression in MIMO Frequency Selective and Time-Varying Fading Channels. IEEE Transactions on Signal Processing, 2008, 56, 3638-3651.	3.2	17
29	Stabilization of networked multi-input systems with channel resource allocation. , 2008, , .		0
30	Parametric Modeling of Wideband and Ultrawideband Channels in Frequency Domain. IEEE Transactions on Vehicular Technology, 2007, 56, 1600-1612.	3.9	8
31	Sigma-Delta ADC Based Distributed Detection in Wireless Sensor Networks. , 2007, , .		0
32	Generalized LQR Control and Kalman Filtering With Relations to Computations of Inner-Outer and Spectral Factorizations. IEEE Transactions on Automatic Control, 2006, 51, 595-605.	3.6	34
33	Synchronization of Chaotic Communication Systems via Kalman Filtering. , 2006, , .		1
34	Design of optimal zero-forcing precoders for MIMO channels via optimal full information control. IEEE Transactions on Signal Processing, 2005, 53, 3238-3246.	3.2	25
35	Optimal Design for Channel Equalization via the Filterbank Approach. IEEE Transactions on Signal Processing, 2004, 52, 536-545.	3.2	29
36	Worst-case design for optimal channel equalization in filterbank transceivers. IEEE Transactions on Signal Processing, 2003, 51, 2424-2435.	3.2	14

#	ARTICLE	IF	CITATIONS
37	Stability analysis for nonlinear feedback control systems with linear actuators. IEEE Transactions on Automatic Control, 2003, 48, 649-654.	3.6	1
38	Inner-outer factorization for strictly proper transfer matrices. IEEE Transactions on Automatic Control, 2002, 47, 1915-1919.	3.6	13
39	Remarks on validation of uncertainty models using frequency response data. IEEE Transactions on Automatic Control, 2002, 47, 486-490.	3.6	4
40	A nearly interpolatory algorithm for $H_\infty$ identification with mixed time and frequency response data. IEEE Transactions on Automatic Control, 2001, 46, 464-469.	3.6	2
41	LFT uncertain model validation with time- and frequency-domain measurements. IEEE Transactions on Automatic Control, 1999, 44, 1435-1441.	3.6	31
42	Design of multichannel QMF banks via frequency-domain optimizations. IEEE Transactions on Circuits and Systems Part 2: Express Briefs, 1999, 46, 599-607.	2.3	2
43	Stability analysis for rotating stall dynamics in axial flow compressors. Circuits, Systems, and Signal Processing, 1999, 18, 331-350.	1.2	1
44	Parametric $H_\infty$ loopshaping and weighted mixed sensitivity minimization. IEEE Transactions on Automatic Control, 1999, 44, 846-852.	3.6	12
45	Modeling of normalized coprime factors with $H_2$ -metric uncertainty. IEEE Transactions on Automatic Control, 1999, 44, 1498-1511.	3.6	16
46	Convergence results on the design of QMF banks. IEEE Transactions on Signal Processing, 1998, 46, 758-761.	3.2	0
47	A direct approach to the design of QMF banks via frequency domain optimization. IEEE Transactions on Signal Processing, 1998, 46, 2131-2138.	3.2	17
48	Bifurcation analysis and control for surge model via the projection method. , 1998, , .		2
49	Robust stabilization of MIMO uncertain nonlinear systems without strict feedback conditions. , 1998, , .		4
50	Bifurcation based nonlinear feedback control for rotating stall in axial flow compressors. , 1997, , .		2
51	Computation of simple and group factors of multivariate polynomials. Circuits, Systems, and Signal Processing, 1997, 16, 455-473.	1.2	1
52	A canonical structure for constrained optimal control problems. International Journal of Robust and Nonlinear Control, 1996, 6, 727-741.	2.1	0
53	Frequency Domain Identification of Lightly Damped Systems: The JPL Example. , 1993, , .		10
54	Identification in $H_\infty$ via convex programming. , 1993, , .		1

#	ARTICLE	IF	CITATIONS
55	A Canonical Structure for Constrained Optimal Control Problems. , 1993, , .		0
56	Worst Case Identification of Continuous time Systems via Interpolation. , 1993, , .		1
57	Identification of Linear Time Invariant Systems. , 1991, , .		2
58	Optimal Design for Channel Equalization via the Filterbank Approach. , 0, , .		0
59	Global disturbance attenuation for MIMO nonlinear systems with controlled output containing input. , 0, , .		0
60	Worst-case asymptotic properties of linear algorithms for $H_{\infty}$ identification. , 0, , .		0
61	Balanced truncation with relative/multiplicative error bounds in $L_{\infty}$ norm. , 0, , .		1
62	Linear algorithms for worst case identification in $\hat{\sigma}_{\infty}$ with applications to flexible structures. , 0, , .		0
63	From frequency response data to state-space models. , 0, , .		0
64	Multivariable feedback control system design with $H_{\infty}$ loop shaping. , 0, , .		0
65	Gain scheduled missile autopilot design using observer-based $H_{\infty}$ control. , 0, , .		1
66	Design of QMF banks and nonlinear optimization. , 0, , .		1
67	An overview of rotating stall and surge control for axial flow compressors. , 0, , .		12
68	Computation of $\hat{\sigma}_{2}[0, h]$ induced norms. , 0, , .		1
69	LFT uncertain model validation with time and frequency domain measurements. , 0, , .		1
70	Robustness of a class of stabilizing controllers for bifurcated systems. , 0, , .		0
71	Modal analysis for axial flow compressors via the projection method. , 0, , .		1
72	Stabilization of multi-input stochastic nonlinear systems. , 0, , .		1

#	ARTICLE	IF	CITATIONS
73	Stability analysis for nonlinear feedback control systems with linear actuators. , 0, , .		0
74	All optimal Hankel-norm approximations and their $\hat{\alpha}_n$ error bounds in discrete-time. , 0, , .		0
75	MMSE multiuser detection for CDMA data networks. , 0, , .		0
76	Optimal Channel Equalization For Time-Varying Channels With Non-Stationary Noises. , 0, , .		2
77	Analysis of Intercarrier and Interblock Interferences in Wireless OFDM Systems. , 0, , .		17
78	Design of optimal precoders for MIMO channels. , 0, , .		0
79	Semiblind tracking and equalization of time-varying multipath channels. , 0, , .		2
80	An analytic approach to modeling and estimation of OFDM channels. , 0, , .		2
81	A New Transceiver Design For Multi-band UWB System. , 0, , .		0
82	Optimal realizable MMSE linear and decision feedback equalizers: time domain results. , 0, , .		2