Guofeng Zhang

List of Publications by Year
in descending order

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71	857	516710 16	526287 27
papers	citations	h-index	g-index

71	71	71	359
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Direct and Indirect Couplings in Coherent Feedback Control of Linear Quantum Systems. IEEE Transactions on Automatic Control, 2011, 56, 1535-1550.	5.7	111
2	Quantum feedback networks and control: A brief survey. Science Bulletin, 2012, 57, 2200-2214.	1.7	67
3	Admissibility Analysis and Control Synthesis for Tâ€“S Fuzzy Descriptor Systems. IEEE Transactions on Fuzzy Systems, 2017, 25, 729-740.	9.8	49
4	On the Response of Quantum Linear Systems to Single Photon Input Fields. IEEE Transactions on Automatic Control, 2013, 58, 1221-1235.	5.7	47
5	On realization theory of quantum linear systems. Automatica, 2015, 59, 139-151.	5.0	38
6	Computing the geometric measure of entanglement of multipartite pure states by means of non-negative tensors. Physical Review A, 2016, 93, .	2.5	36
7	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0016.gif" overflow="scroll"><mml:msub><mml:mrow><mml:mi>H</mml:mi></mml:mrow><mml:mrow><mml:mi>âˆž</mml:mi></mml:mrow><mml:mrow><m control of Tâ€“S fuzzy fish population logistic model with the invasion of alien species. Neurocomputing, 2016, 173, 724-733.	5.9	33
8	Output feedback stabilisation of networked control systems via switched system approach. International Journal of Control, 2009, 82, 1665-1677.	1.9	32
9	The Kalman Decomposition for Linear Quantum Systems. IEEE Transactions on Automatic Control, 2018, 63, 331-346.	5.7	26
10	Analysis of quantum linear systemsâ€™ response to multi-photon states. Automatica, 2014, 50, 442-451.	5.0	25
11	An exponential quantum projection filter for open quantum systems. Automatica, 2019, 99, 59-68.	5.0	20
12	Quantum optical realization of classical linear stochastic systems. Automatica, 2013, 49, 3090-3096.	5.0	19
13	Analysis and control of quantum finite-level systems driven by single-photon input states. Automatica, 2016, 69, 18-23.	5.0	19
14	Dynamical analysis of quantum linear systems driven by multi-channel multi-photon states. Automatica, 2017, 83, 186-198.	5.0	19
15	Generating nonclassical quantum input field states with modulating filters. EPJ Quantum Technology, 2015, 2, .	6.3	18
16	Exact analysis of the response of quantum systems to two-photons using a QSDE approach. New Journal of Physics, 2016, 18, 033004.	2.9	18
17	How entangled can a multi-party system possibly be?. Physics Letters, Section A: General, Atomic and Solid State Physics, 2018, 382, 1465-1471.	2.1	17
18	Energy cost for controlling complex networks with linear dynamics. Physical Review E, 2019, 99, 052305.	2.1	16

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19	Coherent Feedback Control of Linear Quantum Optical Systems via Squeezing and Phase Shift. SIAM Journal on Control and Optimization, 2012, 50, 2130-2150.	2.1	15
20	Geometric measures of entanglement in multipartite pure states via complex-valued neural networks. Neurocomputing, 2018, 313, 25-38.	5.9	15
21	An improved quantum projection filter. Automatica, 2020, 112, 108716.	5.0	15
22	Detecting quantum entanglement with unsupervised learning. Quantum Science and Technology, 2022, 7, 015005.	5.8	15
23	Synthesis and structure of mixed quantum-classical linear systems. , 2012, , .		13
24	Quantum filtering for a two-level atom driven by two counter-propagating photons. Quantum Information Processing, 2019, 18, 1.	2.2	13
25	Linear quantum systems: A tutorial. Annual Reviews in Control, 2022, 54, 274-294.	7.9	13
26	Digital redesign via the generalised bilinear transformation. International Journal of Control, 2009, 82, 741-754.	1.9	12
27	Singleâ€photon quantum filtering with multiple measurements. International Journal of Adaptive Control and Signal Processing, 2018, 32, 528-546.	4.1	12
28	On the dynamics of two photons interacting with a two-qubit coherent feedback network. Automatica, 2020, 117, 108978.	5.0	11
29	NETWORKED CONTROL SYSTEMS: A PERSPECTIVE FROM CHAOS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2005, 15, 3075-3101.	1.7	7
30	Performance Recovery in Digital Implementation of Analogue Systems. SIAM Journal on Control and Optimization, 2007, 45, 2207-2223.	2.1	6
31	Controlling chaos in a memristor-based Chua's circuit. , 2009, , .		6
32	Wigner spectrum and coherent feedback control of continuous-mode single-photon Fock states. Journal of Physics A: Mathematical and Theoretical, 2016, 49, 435301.	2.1	5
33	Mixed LQG and Hâˆž coherent feedback control for linear quantum systems. International Journal of Control, 2017, 90, 2575-2588.	1.9	5
34	Representation and network synthesis for a class of mixed quantumâ€“classical linear stochastic systems. Automatica, 2018, 96, 84-97.	5.0	5
35	Quantum Higher Order Singular Value Decomposition. , 2019, , .		5
36	Iterative methods for computing U-eigenvalues of non-symmetric complex tensors with application in quantum entanglement. Computational Optimization and Applications, 2020, 75, 779-798.	1.6	5

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37	Regularly decomposable tensors and classical spin states. Communications in Mathematical Sciences, 2017, 15, 1651-1665.	1.0	5
38	Amplification of optical SchrÃ¶dinger cat states with an implementation protocol based on a frequency comb. Physical Review A, 2022, 105, .	2.5	5
39	Analysis of a type of nonsmooth dynamical systems. Chaos, Solitons and Fractals, 2006, 30, 1153-1164.	5.1	4
40	A model predictive control approach to networked systems. , 2007, , .		4
41	Stability and Bifurcation Analysis of a Class of Networked Dynamical Systems. IEEE Transactions on Circuits and Systems II: Express Briefs, 2009, 56, 664-668.	3.0	4
42	Quantum filtering for multiple measurements driven by two single-photon states. , 2016, , .		4
43	Control engineering of continuous-mode single-photon states: a review. Control Theory and Technology, 2021, 19, 544-562.	1.6	4
44	On the control of flying qubits. Automatica, 2022, 143, 110338.	5.0	4
45	Comparing digital implementation via the bilinear and step-invariant transformations. Automatica, 2004, 40, 327-330.	5.0	3
46	DYNAMICAL ANALYSIS OF A NETWORKED CONTROL SYSTEM. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2007, 17, 61-83.	1.7	3
47	Squeezing enhancement of degenerate parametric amplifier via coherent feedback control. International Journal of Control, 2012, 85, 1865-1875.	1.9	3
48	Quantum filtering for multiple measurements driven by fields in single-photon states. , 2016, , .		3
49	Scattering of few photons by a ladder-type quantum system. Journal of Physics A: Mathematical and Theoretical, 2017, 50, 345301.	2.1	3
50	The Kalman decomposition for Linear Quantum Stochastic Systems. , 2017, , .		3
51	On the Dynamics of the Tavisâ€“Cummings Model. IEEE Transactions on Automatic Control, 2023, 68, 2048-2063.	5.7	3
52	Structural Characterization of Linear Quantum Systems With Application to Back-Action Evading Measurement. IEEE Transactions on Automatic Control, 2020, 65, 3157-3163.	5.7	2
53	Structural decomposition for quantum two-level systems. Automatica, 2020, 113, 108751.	5.0	2
54	Quantum context-aware recommendation systems based on tensor singular value decomposition. Quantum Information Processing, 2021, 20, 1.	2.2	2

#	Article	IF	Citations
55	Quantum tensor singular value decomposition*. Journal of Physics Communications, 2021, 5, 075001.	1.2	2
56	Performance comparison of digital implementation of analog systems. , 2007, , .		1
57	Complexity analysis of network-based dynamical systems. Journal of Systems Science and Complexity, 2011, 24, 413-432.	2.8	1
58	Single photon inverting pulse for an atom in a cavity. , 2015, , .		1
59	LQG/H<inf>∞</inf> control of linear quantum stochastic systems. , 2015, , .		1
60	Classical and quantum stochastic models of resistive and memristive circuits. Journal of Mathematical Physics, 2017, 58, 073505.	1.1	1
61	Single-photon coherent feedback control and filtering. , 2020, , 1-4.		1
62	â„“p-equivalence of Discretizations of Analog Controllers. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 15232-15237.	0.4	0
63	Linear system based approach for solving some related problems of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mrow><mml:mi>M</mml:mi></mml:mrow></mml:math>-matrices. Linear Algebra and Its Applications, 2010, 432, 327-337.	0.9	0
64	Feedback control of linear quantum optical systems. , 2011, , .		0
65	Squeezing enhancement of degenerate parametric amplifiers via coherent feedback control. , 2012, , .		0
66	Exact analysis of quantum filter for systems driven by two counter-propagating single-photon states 1 1This work was financially supported in part by National Natural Science Foundation of China (NSFC) grant (No. 61374057), Hong Kong RGC grant (Nos. 531213 and 15206915), and JCJC INS2I 2016 â€œQIGR3CFâ€• project.. IFAC-PapersOnLine, 2017, 50, 11749-11754.	0.9	0
67	Quantum projection filtering for open quantum systems. , 2017, , .		0
68	Upper bound of the minimum energy cost for controlling complex networks. , 2019, , .		0
69	Covariance Functions for Quantum Linear System Driven by Few Photons. , 2020, , .		0
70	Single-Photon Coherent Feedback Control and Filtering. , 2021, , 2066-2069.		0
71	Atomic excitation for a two-level system driven by three input photons. , 2020, , .		0