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	On the Dynamics of the Tavisâ€“Cummings Model. IEEE Transactions on Automatic Control, 2023, 68, 2048-2063.	5.7	3
2	Detecting quantum entanglement with unsupervised learning. Quantum Science and Technology, 2022, 7, 015005.	5.8	15
3	Amplification of optical SchrÃ¶dinger cat states with an implementation protocol based on a frequency comb. Physical Review A, 2022, 105, .	2.5	5
4	Linear quantum systems: A tutorial. Annual Reviews in Control, 2022, 54, 274-294.	7.9	13
5	On the control of flying qubits. Automatica, 2022, 143, 110338.	5.0	4
6	Single-Photon Coherent Feedback Control and Filtering. , 2021, , 2066-2069.		0
7	Quantum context-aware recommendation systems based on tensor singular value decomposition. Quantum Information Processing, 2021, 20, 1.	2.2	2
8	Quantum tensor singular value decomposition*. Journal of Physics Communications, 2021, 5, 075001.	1.2	2
9	Control engineering of continuous-mode single-photon states: a review. Control Theory and Technology, 2021, 19, 544-562.	1.6	4
10	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
11	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
12	Structural decomposition for quantum two-level systems. Automatica, 2020, 113, 108751.	5.0	2
13	An improved quantum projection filter. Automatica, 2020, 112, 108716.	5.0	15
14	Covariance Functions for Quantum Linear System Driven by Few Photons. , 2020, , .		0
15	On the dynamics of two photons interacting with a two-qubit coherent feedback network. Automatica, 2020, 117, 108978.	5.0	11
16	Single-photon coherent feedback control and filtering. , 2020, , 1-4.		1
17	Atomic excitation for a two-level system driven by three input photons. , 2020, , .		0
18	Quantum filtering for a two-level atom driven by two counter-propagating photons. Quantum Information Processing, 2019, 18, 1.	2.2	13

#	Article	IF	Citations
19	Energy cost for controlling complex networks with linear dynamics. Physical Review E, 2019, 99, 052305.	2.1	16
20	Quantum Higher Order Singular Value Decomposition. , 2019, , .		5
21	Upper bound of the minimum energy cost for controlling complex networks. , 2019, , .		0
22	An exponential quantum projection filter for open quantum systems. Automatica, 2019, 99, 59-68.	5.0	20
23	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
24	Singleâ€photon quantum filtering with multiple measurements. International Journal of Adaptive Control and Signal Processing, 2018, 32, 528-546.	4.1	12
25	The Kalman Decomposition for Linear Quantum Systems. IEEE Transactions on Automatic Control, 2018, 63, 331-346.	5.7	26
26	Geometric measures of entanglement in multipartite pure states via complex-valued neural networks. Neurocomputing, 2018, 313, 25-38.	5.9	15
27	Representation and network synthesis for a class of mixed quantumâ€“classical linear stochastic systems. Automatica, 2018, 96, 84-97.	5.0	5
28	Admissibility Analysis and Control Synthesis for Tâ€“S Fuzzy Descriptor Systems. IEEE Transactions on Fuzzy Systems, 2017, 25, 729-740.	9.8	49
29	Mixed LQG and Hâˆž coherent feedback control for linear quantum systems. International Journal of Control, 2017, 90, 2575-2588.	1.9	5
30	Dynamical analysis of quantum linear systems driven by multi-channel multi-photon states. Automatica, 2017, 83, 186-198.	5.0	19
31	Scattering of few photons by a ladder-type quantum system. Journal of Physics A: Mathematical and Theoretical, 2017, 50, 345301.	2.1	3
32	Classical and quantum stochastic models of resistive and memristive circuits. Journal of Mathematical Physics, 2017, 58, 073505.	1.1	1
33	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
34	The Kalman decomposition for Linear Quantum Stochastic Systems. , 2017, , .		3
35	Quantum projection filtering for open quantum systems. , 2017, , .		0
36	Regularly decomposable tensors and classical spin states. Communications in Mathematical Sciences, 2017, 15, 1651-1665.	1.0	5

#	ARTICLE	IF	CITATIONS
37	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
38	Quantum filtering for multiple measurements driven by fields in single-photon states. , 2016, , .		3
39	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
40	Computing the geometric measure of entanglement of multipartite pure states by means of non-negative tensors. Physical Review A, 2016, 93, .	2.5	36
41	Quantum filtering for multiple measurements driven by two single-photon states. , 2016, , .		4
42	Analysis and control of quantum finite-level systems driven by single-photon input states. Automatica, 2016, 69, 18-23.	5.0	19
43	<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:mr control of Tâ€“S fuzzy fish population logistic model with the invasion of alien species. Neurocomputing, 2016, 173, 724-733.	5.9	33
44	Generating nonclassical quantum input field states with modulating filters. EPJ Quantum Technology, 2015, 2, .	6.3	18
45	Single photon inverting pulse for an atom in a cavity. , 2015, , .		1
46	On realization theory of quantum linear systems. Automatica, 2015, 59, 139-151.	5.0	38
47	LQG/H<inf>∞</inf> control of linear quantum stochastic systems. , 2015, , .		1
48	Analysis of quantum linear systemsâ€™ response to multi-photon states. Automatica, 2014, 50, 442-451.	5.0	25
49	Quantum optical realization of classical linear stochastic systems. Automatica, 2013, 49, 3090-3096.	5.0	19
50	On the Response of Quantum Linear Systems to Single Photon Input Fields. IEEE Transactions on Automatic Control, 2013, 58, 1221-1235.	5.7	47
51	Squeezing enhancement of degenerate parametric amplifier via coherent feedback control. International Journal of Control, 2012, 85, 1865-1875.	1.9	3
52	Squeezing enhancement of degenerate parametric amplifiers via coherent feedback control. , 2012, , .		0
53	Synthesis and structure of mixed quantum-classical linear systems. , 2012, , .		13
54	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

#	Article	IF	Citations
55	Quantum feedback networks and control: A brief survey. Science Bulletin, 2012, 57, 2200-2214.	1.7	67
56	Direct and Indirect Couplings in Coherent Feedback Control of Linear Quantum Systems. IEEE Transactions on Automatic Control, 2011, 56, 1535-1550.	5.7	111
57	Complexity analysis of network-based dynamical systems. Journal of Systems Science and Complexity, 2011, 24, 413-432.	2.8	1
58	Feedback control of linear quantum optical systems. , 2011, , .		0
59	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
60	Output feedback stabilisation of networked control systems via switched system approach. International Journal of Control, 2009, 82, 1665-1677.	1.9	32
61	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
62	Controlling chaos in a memristor-based Chua's circuit. , 2009, , .		6
63	Digital redesign via the generalised bilinear transformation. International Journal of Control, 2009, 82, 741-754.	1.9	12
64	â„“p-equivalence of Discretizations of Analog Controllers. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 15232-15237.	0.4	0
65	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
66	Performance comparison of digital implementation of analog systems. , 2007, , .		1
67	Performance Recovery in Digital Implementation of Analogue Systems. SIAM Journal on Control and Optimization, 2007, 45, 2207-2223.	2.1	6
68	A model predictive control approach to networked systems. , 2007, , .		4
69	Analysis of a type of nonsmooth dynamical systems. Chaos, Solitons and Fractals, 2006, 30, 1153-1164.	5.1	4
70	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
71	Comparing digital implementation via the bilinear and step-invariant transformations. Automatica, 2004, 40, 327-330.	5.0	3