

Daoyi Dong

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

156
papers

2,332
citations

27
h-index

43
g-index

199
ext. papers

3,436
ext. citations

4.3
avg, IF

5.53
L-index

#	Paper	IF	Citations
156	Quantum control theory and applications: a survey. <i>IET Control Theory and Applications</i> , 2010 , 4, 2651-2671	5.7	262
155	Quantum reinforcement learning. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2008 , 38, 1207-20		139
154	Sliding mode control of two-level quantum systems. <i>Automatica</i> , 2012 , 48, 725-735	5.7	90
153	Sliding mode control of quantum systems. <i>New Journal of Physics</i> , 2009 , 11, 105033	2.9	76
152	Fidelity-based probabilistic Q-learning for control of quantum systems. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2014 , 25, 920-33	10.3	71
151	Quantum state tomography via linear regression estimation. <i>Scientific Reports</i> , 2013 , 3, 3496	4.9	63
150	Optimal Lyapunov-based quantum control for quantum systems. <i>Physical Review A</i> , 2012 , 86,	2.6	62
149	Sampling-based learning control of inhomogeneous quantum ensembles. <i>Physical Review A</i> , 2014 , 89,	2.6	60
148	Adaptive quantum state tomography via linear regression estimation: Theory and two-qubit experiment. <i>Npj Quantum Information</i> , 2017 , 3,	8.6	51
147	Robust manipulation of superconducting qubits in the presence of fluctuations. <i>Scientific Reports</i> , 2015 , 5, 7873	4.9	49
146	Incoherent control of quantum systems with wavefunction-controllable subspaces via quantum reinforcement learning. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2008 , 38, 957-62		46
145	Full reconstruction of a 14-qubit state within four hours. <i>New Journal of Physics</i> , 2016 , 18, 083036	2.9	44
144	A Quantum Hamiltonian Identification Algorithm: Computational Complexity and Error Analysis. <i>IEEE Transactions on Automatic Control</i> , 2018 , 63, 1388-1403	5.9	41
143	Self-Paced Prioritized Curriculum Learning With Coverage Penalty in Deep Reinforcement Learning. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2018 , 29, 2216-2226	10.3	40
142	Robust Quantum-Inspired Reinforcement Learning for Robot Navigation. <i>IEEE/ASME Transactions on Mechatronics</i> , 2012 , 17, 86-97	5.5	40
141	Rapid Lyapunov control of finite-dimensional quantum systems. <i>Automatica</i> , 2017 , 81, 164-175	5.7	39
140	Hybrid Control for Robot Navigation - A Hierarchical Q-Learning Algorithm. <i>IEEE Robotics and Automation Magazine</i> , 2008 , 15, 37-47	3.4	38

139	Identifying Strong-Field Effects in Indirect Photofragmentation Reactions. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 1-6	6.4	37
138	Notes on sliding mode control of two-level quantum systems. <i>Automatica</i> , 2012 , 48, 3089-3097	5.7	34
137	Learning robust and high-precision quantum controls. <i>Physical Review A</i> , 2019 , 99,	2.6	32
136	Incoherent control of locally controllable quantum systems. <i>Journal of Chemical Physics</i> , 2008 , 129, 1541-1543	9.3	32
135	Attosecond Dynamics of Molecular Electronic Ring Currents. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 2229-2235	6.4	31
134	Sampling-Based Learning Control for Quantum Systems With Uncertainties. <i>IEEE Transactions on Control Systems Technology</i> , 2015 , 23, 2155-2166	4.8	31
133	Quantum reinforcement learning during human decision-making. <i>Nature Human Behaviour</i> , 2020 , 4, 294-308	10.8	31
132	A recursive two-phase general protocol on deterministic remote preparation of a class of multi-qubit states. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2012 , 45, 205506	1.3	31
131	Quantum robot: structure, algorithms and applications. <i>Robotica</i> , 2006 , 24, 513-521	2.1	31
130	Distributed sampled-data control of nonholonomic multi-robot systems with proximity networks. <i>Automatica</i> , 2017 , 77, 170-179	5.7	30
129	Robust incoherent control of qubit systems via switching and optimisation. <i>International Journal of Control</i> , 2010 , 83, 206-217	1.5	26
128	Fault tolerant quantum filtering and fault detection for quantum systems. <i>Automatica</i> , 2016 , 71, 125-134	5.7	25
127	Sampled-Data Design for Robust Control of a Single Qubit. <i>IEEE Transactions on Automatic Control</i> , 2013 , 58, 2654-2659	5.9	25
126	Learning-Based Quantum Robust Control: Algorithm, Applications, and Experiments. <i>IEEE Transactions on Cybernetics</i> , 2020 , 50, 3581-3593	10.2	24
125	Fault-Tolerant Control of Linear Quantum Stochastic Systems. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 2929-2935	5.9	23
124	Robust Learning Control Design for Quantum Unitary Transformations. <i>IEEE Transactions on Cybernetics</i> , 2017 , 47, 4405-4417	10.2	22
123	Vanishing and Revival of Resonance Raman Scattering. <i>Physical Review Letters</i> , 2019 , 123, 223202	7.4	22
122	Incremental Reinforcement Learning With Prioritized Sweeping for Dynamic Environments. <i>IEEE/ASME Transactions on Mechatronics</i> , 2019 , 24, 621-632	5.5	21

121	Learning robust pulses for generating universal quantum gates. <i>Scientific Reports</i> , 2016 , 6, 36090	4.9	21
120	Optimal Lyapunov quantum control of two-level systems: Convergence and extended techniques. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2014 , 378, 1074-1080	2.3	20
119	Multi-party quantum state sharing via various probabilistic channels. <i>Quantum Information Processing</i> , 2013 , 12, 237-249	1.6	20
118	. <i>IEEE Transactions on Fuzzy Systems</i> , 2012 , 20, 820-831	8.3	20
117	Rapid incoherent control of quantum systems based on continuous measurements and reference model. <i>IET Control Theory and Applications</i> , 2009 , 3, 161-169	2.5	19
116	Attosecond all-optical control and visualization of quantum interference between degenerate magnetic states by circularly polarized pulses. <i>Optics Letters</i> , 2020 , 45, 960-963	3	17
115	Quantum Reinforcement Learning. <i>Lecture Notes in Computer Science</i> , 2005 , 686-689	0.9	17
114	Optimal and robust control of quantum state transfer by shaping the spectral phase of ultrafast laser pulses. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 9498-9506	3.6	16
113	Control of non-controllable quantum systems: a quantum control algorithm based on Grover iteration. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , 2005 , 7, S313-S317		16
112	Performance Analysis and Coherent Guaranteed Cost Control for Uncertain Quantum Systems Using Small Gain and Popov Methods. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 1524-1529	5.9	15
111	Coherent robust H ₂ control of linear quantum systems with uncertainties in the Hamiltonian and coupling operators. <i>Automatica</i> , 2017 , 81, 8-21	5.7	15
110	Quantum gate identification: Error analysis, numerical results and optical experiment. <i>Automatica</i> , 2019 , 101, 269-279	5.7	14
109	Quantum Hamiltonian Identifiability via a Similarity Transformation Approach and Beyond. <i>IEEE Transactions on Automatic Control</i> , 2020 , 65, 4632-4647	5.9	13
108	Controllability of quantum systems with switching control. <i>International Journal of Control</i> , 2011 , 84, 37-46	1.5	13
107	Hybrid MDP based integrated hierarchical Q-learning. <i>Science China Information Sciences</i> , 2011 , 54, 2279-2294	3.4	11
106	Quantum Mechanics Helps in Learning for More Intelligent Robots. <i>Chinese Physics Letters</i> , 2006 , 23, 1691-1694	1.8	11
105	Exact analysis of the response of quantum systems to two-photons using a QSDE approach. <i>New Journal of Physics</i> , 2016 , 18, 033004	2.9	11
104	Realization of mutually unbiased bases for a qubit with only one wave plate: theory and experiment. <i>Optics Express</i> , 2015 , 23, 10018-31	3.3	10

103	Universal fuzzy models and universal fuzzy controllers for discrete-time nonlinear systems. <i>IEEE Transactions on Cybernetics</i> , 2015 , 45, 880-7	10.2	10
102	Complete elimination of nonlinear light-matter interactions with broadband ultrafast laser pulses. <i>Physical Review A</i> , 2017 , 95,	2.6	9
101	Sampling-based learning control for quantum systems with hamiltonian uncertainties 2013 ,		9
100	. <i>IEEE Transactions on Control Systems Technology</i> , 2019 , 27, 2315-2329	4.8	9
99	Quantum Ensemble Classification: A Sampling-Based Learning Control Approach. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2017 , 28, 1345-1359	10.3	8
98	Fast quantum state transfer in hybrid quantum dot-metal nanoparticle systems by shaping ultrafast laser pulses. <i>Journal Physics D: Applied Physics</i> , 2019 , 52, 425101	3	8
97	An efficient scheme for multi-party quantum state sharing of an arbitrary multi-qubit state with one GHZ channel. <i>Quantum Information Processing</i> , 2013 , 12, 841-851	1.6	8
96	Performance analysis and coherent guaranteed cost control for uncertain quantum systems 2014 ,		8
95	Detecting non-Markovianity via quantified coherence: theory and experiments. <i>Npj Quantum Information</i> , 2020 , 6,	8.6	8
94	A novel incremental learning scheme for reinforcement learning in dynamic environments 2016 ,		8
93	Robust H _∞ controller design for a class of linear quantum systems with time delay. <i>International Journal of Robust and Nonlinear Control</i> , 2017 , 27, 380-392	3.6	7
92	Dark Modes of Quantum Linear Systems. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 4180-4186	5.9	7
91	Precision limit of atomic magnetometers in the presence of spin-destruction collisions. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2015 , 48, 035502	1.3	7
90	Sampled-data design for robust control of open two-level quantum systems with operator errors. <i>IET Control Theory and Applications</i> , 2016 , 10, 2415-2421	2.5	7
89	Multiple independent quantum states sharing under collaboration of agents in quantum networks. <i>Quantum Information Processing</i> , 2012 , 11, 1829-1844	1.6	7
88	Realization of a quantum autoencoder for lossless compression of quantum data. <i>Physical Review A</i> , 2020 , 102,	2.6	7
87	Design of a Discrete-Time Fault-Tolerant Quantum Filter and Fault Detector. <i>IEEE Transactions on Cybernetics</i> , 2021 , 51, 889-899	10.2	7
86	Learning Control of Quantum Systems Using Frequency-Domain Optimization Algorithms. <i>IEEE Transactions on Control Systems Technology</i> , 2021 , 29, 1791-1798	4.8	7

85	Reaching a Quantum Consensus: Master Equations That Generate Symmetrization and Synchronization. <i>IEEE Transactions on Automatic Control</i> , 2015 , 1-1	5.9	6
84	Partial feedback control of quantum systems using probabilistic fuzzy estimator 2009 ,		6
83	Fault tolerant filtering and fault detection for quantum systems driven by fields in single photon states. <i>Journal of Mathematical Physics</i> , 2016 , 57, 062201	1.2	6
82	Coherent H^{∞} Control for Linear Quantum Systems With Uncertainties in the Interaction Hamiltonian. <i>IEEE/CAA Journal of Automatica Sinica</i> , 2021 , 8, 432-440	7	6
81	Quantum learning control using differential evolution with equally-mixed strategies. <i>Control Theory and Technology</i> , 2017 , 15, 226-241	1	5
80	Consensus of quantum networks with continuous-time markovian dynamics 2014 ,		5
79	Filter-Based Feedback Control for a Class of Markovian Open Quantum Systems 2019 , 3, 565-570		4
78	A Popov approach to performance analysis and coherent guaranteed cost control for uncertain quantum systems 2014 ,		4
77	Agent-Based Self-Adaptable Context-Aware Network Vulnerability Assessment. <i>IEEE Transactions on Network and Service Management</i> , 2013 , 10, 255-270	4.8	4
76	Variable Structure Control of Uncontrollable Quantum Systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2009 , 42, 237-242		4
75	A Quantum-inspired Q-learning Algorithm for Indoor Robot Navigation 2008 ,		4
74	Static and dynamic coherent robust control for a class of uncertain quantum systems. <i>Systems and Control Letters</i> , 2020 , 141, 104702	2.4	4
73	Quantum Hamiltonian Identification With Classical Colored Measurement Noise. <i>IEEE Transactions on Control Systems Technology</i> , 2021 , 29, 1356-1363	4.8	4
72	Deep Reinforcement Learning With Quantum-Inspired Experience Replay. <i>IEEE Transactions on Cybernetics</i> , 2021 , PP,	10.2	4
71	Rule-Based Reinforcement Learning for Efficient Robot Navigation with Space Reduction. <i>IEEE/ASME Transactions on Mechatronics</i> , 2021 , 1-1	5.5	4
70	Grey Reinforcement Learning for Incomplete Information Processing. <i>Lecture Notes in Computer Science</i> , 2006 , 399-407	0.9	4
69	Modeling and Control of Quantum Measurement-Induced Backaction in Double Quantum Dots. <i>IEEE Transactions on Control Systems Technology</i> , 2019 , 27, 2499-2509	4.8	3
68	Synchronization of a Group of Mobile Agents With Variable Speeds Over Proximity Nets. <i>IEEE Transactions on Cybernetics</i> , 2016 , 46, 1579-90	10.2	3

67	Differential Evolution with Equally-Mixed Strategies for Robust Control of Open Quantum Systems 2015,		3
66	The improved quantum switching mechanism based on contention. <i>Chaos, Solitons and Fractals</i> , 2009 , 39, 1936-1942	9.3	3
65	Sampled-data design for robust decoherence control of a single qubit 2012,		3
64	Quantum Language Model With Entanglement Embedding for Question Answering.. <i>IEEE Transactions on Cybernetics</i> , 2021 , PP,	10.2	3
63	Feedback preparation of Bell states for two-qubit systems with time delay 2019,		3
62	Fundamental limits for reciprocal and nonreciprocal non-Hermitian quantum sensing. <i>Physical Review A</i> , 2021 , 103,	2.6	3
61	Sampling-based robust control in synchronizing collision with shaped laser pulses: an application in charge transfer for H+ + D -qH + D+. <i>RSC Advances</i> , 2016 , 6, 92962-92969	3.7	3
60	Finite-time stabilization control of quantum systems. <i>Automatica</i> , 2021 , 123, 109327	5.7	3
59	Single-laser-induced quantum interference in photofragmentation reaction of D+ 2. <i>Molecular Physics</i> , 2017 , 115, 1908-1915	1.7	2
58	Lower Bounds on the Proportion of Leaders Needed for Expected Consensus of 3-D Flocks. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2017 , 28, 2555-2565	10.3	2
57	An Approximate Algorithm for Quantum Hamiltonian Identification with Complexity Analysis * *This work was supported by the Australian Research Council Discovery Projects funding scheme under Project DP130101658, Laureate Fellowship FL110100020, AFOSR under grant FA2386-16-1-4065 and the National Natural Science Foundation of China under Grant Nos. 61174086 and 61533012. <i>IFAC-PapersOnLine</i> , 2017 , 50, 11744-11748	0.7	2
56	Coherent robust H _∞ control of uncertain linear quantum stochastic systems 2015,		2
55	Guaranteed cost dynamic coherent control for a class of uncertain linear quantum systems 2015,		2
54	Learning control of charge transfer in molecular systems 2015,		2
53	A unified framework for fault tolerant quantum filtering and fault detection 2015,		2
52	Sampling-based learning control of quantum systems via path planning. <i>IET Control Theory and Applications</i> , 2014 , 8, 1513-1522	2.5	2
51	Approximate bang-bang Lyapunov control for closed quantum systems 2014,		2
50	Robust entanglement control between two atoms in a cavity using sampling-based learning control 2014,		2

49	Sliding mode control of two-level quantum systems with bounded uncertainties 2010 ,		2
48	Sampled-data control of two-level quantum systems based on sliding mode design 2011 ,		2
47	A Quantum Reinforcement Learning Method for Repeated Game Theory 2006 ,		2
46	QUANTUM CONTROL BASED ON QUANTUM INFORMATION. <i>International Journal of Modern Physics B</i> , 2007 , 21, 969-977	1.1	2
45	Characterization of entangling properties of quantum measurement via two-mode quantum detector tomography using coherent state probes. <i>Optics Express</i> , 2019 , 27, 34416-34433	3.3	2
44	Design of a Quantum Projection Filter. <i>IEEE Transactions on Automatic Control</i> , 2020 , 65, 3693-3700	5.9	2
43	IEDQN: Information Exchange DQN with a Centralized Coordinator for Traffic Signal Control 2020 ,		2
42	Two-step feedback preparation of entanglement for qubit systems with time delay. <i>Automatica</i> , 2021 , 125, 109174	5.7	2
41	. <i>IEEE Transactions on Information Theory</i> , 2021 , 67, 2293-2307	2.8	2
40	On the capability of a class of quantum sensors. <i>Automatica</i> , 2021 , 129, 109612	5.7	2
39	Learning control of population transfer between subspaces of quantum systems using an adaptive target scheme 2016 ,		2
38	An iterative algorithm for Hamiltonian identification of quantum systems 2016 ,		2
37	Generation of accessible sets for a class of quantum spin networks* 2019 ,		2
36	Filtering for a Class of Quantum Systems With Classical Stochastic Disturbances. <i>IEEE Transactions on Control Systems Technology</i> , 2019 , 27, 2774-2780	4.8	2
35	Fault-tolerant Coherent H_∞ Control for Linear Quantum Systems. <i>IEEE Transactions on Automatic Control</i> , 2021 , 1-1	5.9	2
34	Intelligent Trajectory Planning in UAV-Mounted Wireless Networks: A Quantum-Inspired Reinforcement Learning Perspective. <i>IEEE Wireless Communications Letters</i> , 2021 , 10, 1994-1998	5.9	2
33	Curriculum-Based Deep Reinforcement Learning for Quantum Control.. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2022 , PP,	10.3	2
32	Robust control of photoassociation of slow O + H collision. <i>Chemical Physics</i> , 2017 , 483-484, 149-155	2.3	1

31	Adaptive Target Scheme for Learning Control of Quantum Systems. <i>IEEE Transactions on Control Systems Technology</i> , 2018 , 26, 1259-1271	4.8	1
30	Sampling-based learning control of quantum systems with bounded inputs and uncertainties via path planning 2013 ,		1
29	Hybrid Filtering for a Class of Quantum Systems with Classical Disturbances 1 This work was supported by the Australian Research Council's Discovery Projects funding scheme under Project DP130101658 and Laureate Fellowship FL110100020, and the Air Force Office of Scientific Research under agreement number FA2386-16-1-4065.. <i>IFAC-PapersOnLine</i> , 2017 , 50, 11738-11743	0.7	1
28	An approximate quantum Hamiltonian identification algorithm using a Taylor expansion of the matrix exponential function 2017 ,		1
27	Further results on sampled-data design for robust control of a single qubit. <i>International Journal of Control</i> , 2014 , 1-9	1.5	1
26	Notes on Sliding Mode Control of Two-Level Quantum Systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011 , 44, 5777-5782		1
25	Quantum-inspired reinforcement learning for decision-making of Markovian state transition 2010 ,		1
24	Coherent H ₂ control for Markovian jump linear quantum systems. <i>IFAC-PapersOnLine</i> , 2020 , 53, 269-274	0.7	1
23	PSO-assisted Lyapunov control design for quantum systems 2020 ,		1
22	Capability comparison of quantum sensors of single or two qubits for a spin chain system. <i>IFAC-PapersOnLine</i> , 2020 , 53, 263-268	0.7	1
21	Tomography of binary quantum detectors* 2019 ,		1
20	Identification of Time-Varying Decoherence Rates for Open Quantum Systems. <i>IEEE Transactions on Quantum Engineering</i> , 2021 , 2, 1-12	2.9	1
19	Quantum Filtering for a Qubit System Subject to Classical Disturbances 2018 ,		1
18	Reliability analysis of aging control system via stability margins. <i>Journal of Manufacturing Systems</i> , 2021 ,	9.1	1
17	Lifelong Incremental Reinforcement Learning With Online Bayesian Inference. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2021 , PP,	10.3	1
16	An Autonomous Mobile Robot Based on Quantum Algorithm. <i>Lecture Notes in Computer Science</i> , 2005 , 393-398	0.9	1
15	Path Planning for Cellular-Connected UAV: A DRL Solution with Quantum-Inspired Experience Replay. <i>IEEE Transactions on Wireless Communications</i> , 2022 , 1-1	9.6	1
14	Guaranteed cost coherent control for quantum systems with non-quadratic perturbations in the system Hamiltonian. <i>Automatica</i> , 2022 , 139, 110201	5.7	1

13	Fault-tolerant H _∞ control for optical parametric oscillators with pumping fluctuations. <i>Automatica</i> , 2022 , 140, 110236	5.7	1
12	Optimal and two-step adaptive quantum detector tomography. <i>Automatica</i> , 2022 , 141, 110296	5.7	1
11	Stable Consensus Decision Making for Spatially Distributed Multiagent Systems with Multiple Leaders. <i>SIAM Journal on Control and Optimization</i> , 2020 , 58, 1626-1651	1.9	0
10	State Tomography of Qubit Systems Using Linear Regression Estimation and Adaptive Measurements * *This work was supported by the Australian Research Council's Discovery Projects funding scheme under Project DP130101658 and the National Natural Science Foundation of China under Grants (Nos. 61222504, 11574291, 61374092, 61621003 and 61227902). <i>IFAC-PapersOnLine</i> , 2017 , 50, 13011-13012	0.7	0
9	Quantum Intelligent Mobile System. <i>Studies in Computational Intelligence</i> , 2008 , 77-102	0.8	0
8	Weak-force sensing in optomechanical systems with Kalman filtering. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2021 , 54, 165301	2	0
7	Bayesian adversarial multi-node bandit for optimal smart grid protection against cyber attacks. <i>Automatica</i> , 2021 , 128, 109551	5.7	0
6	Quantum Cybernetics Technical Committee Reports: Investigating the Role of Quantum Effects in Regulating Quantum and Classical Systems. <i>IEEE Systems, Man, and Cybernetics Magazine</i> , 2020 , 6, 57-60 ^{1.6}		
5	Entanglement Generation in Uncertain Quantum Systems Using Sampling-based Learning Control. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014 , 47, 5963-5968		
4	Notes on Sampled-data Design for Robust Control of a Single Qubit. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2013 , 46, 353-358		
3	Generation of accessible sets in the dynamical modelling of quantum network systems. <i>IEEE Transactions on Control of Network Systems</i> , 2021 , 1-1	4	
2	Optimization of electric spring operational strategy to minimize electricity bill. <i>Electric Power Systems Research</i> , 2021 , 201, 107540	3.5	
1	Adaptive Regulation of Block-Oriented Nonlinear Systems Using Binary Sensors with Applications to Automotive Engine Control. <i>IEEE Transactions on Automatic Control</i> , 2022 , 1-1	5.9	