

Ian Petersen

List of Publications by Year in descending order

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564
papers

16,536
citations

25034

57
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23533

111
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565
all docs

565
docs citations

565
times ranked

4728
citing authors

#	ARTICLE	IF	CITATIONS
1	Controllability and Accessibility on Graphs for Bilinear Systems Over Lie Groups. IEEE Transactions on Automatic Control, 2023, 68, 2277-2292.	5.7	2
2	Measurement-Induced Boolean Dynamics for Open Quantum Networks. IEEE Transactions on Control of Network Systems, 2023, 10, 134-146.	3.7	1
3	Hybrid Filtering for a Class of Nonlinear Quantum Systems Subject to Classical Stochastic Disturbances. IEEE Transactions on Cybernetics, 2022, 52, 1073-1085.	9.5	2
4	Generation of Accessible Sets in the Dynamical Modeling of Quantum Network Systems. IEEE Transactions on Control of Network Systems, 2022, 9, 682-694.	3.7	0
5	Fault-Tolerant Coherent H^∞ Control for Linear Quantum Systems. IEEE Transactions on Automatic Control, 2022, 67, 5087-5101.	5.7	5
6	Synthesis of Linear Quantum Systems to Generate a Steady Thermal State. IEEE Transactions on Automatic Control, 2022, 67, 2131-2137.	5.7	3
7	Global Convergence and Asymptotic Optimality of the Heavy Ball Method for a Class of Nonconvex Optimization Problems. , 2022, 6, 2449-2454.		1
8	Guaranteed cost coherent control for quantum systems with non-quadratic perturbations in the system Hamiltonian. Automatica, 2022, 139, 110201.	5.0	5
9	Fault-tolerant H^∞ control for optical parametric oscillators with pumping fluctuations. Automatica, 2022, 140, 110236.	5.0	2
10	Moment Dynamics and Observer Design for a Class of Quasilinear Quantum Stochastic Systems. SIAM Journal on Control and Optimization, 2022, 60, 1223-1249.	2.1	3
11	Quantum estimation, control and learning: Opportunities and challenges. Annual Reviews in Control, 2022, 54, 243-251.	7.9	34
12	Fuzzy Self-Tuning of Strictly Negative-Imaginary Controllers for Trajectory Tracking of a Quadcopter Unmanned Aerial Vehicle. IEEE Transactions on Industrial Electronics, 2021, 68, 5036-5045.	7.9	21
13	Multi-point Gaussian States, Quadratic Exponential Cost Functionals, and Large Deviations Estimates for Linear Quantum Stochastic Systems. Applied Mathematics and Optimization, 2021, 83, 83-137.	1.6	13
14	Design of a Discrete-Time Fault-Tolerant Quantum Filter and Fault Detector. IEEE Transactions on Cybernetics, 2021, 51, 889-899.	9.5	17
15	Multi-vehicle formation control and obstacle avoidance using negative-imaginary systems theory. IFAC Journal of Systems and Control, 2021, 15, 100117.	1.7	9
16	Robustness Issues in Quantum Control. , 2021, , 1986-1991.		1
17	A Homotopy Approach to Coherent Quantum LQG Control Synthesis Using Discounted Performance Criteria. IFAC-PapersOnLine, 2021, 54, 166-171.	0.9	1
18	Robust Output Feedback Consensus for Networked Identical Nonlinear Negative-Imaginary Systems. IFAC-PapersOnLine, 2021, 54, 239-244.	0.9	11

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19	Control of Quantum Systems. , 2021, , 368-375.		0
20	Robust Cooperative Control of Networked Train Platoons: A Negative-Imaginary Systemsâ€™ Perspective. IEEE Transactions on Control of Network Systems, 2021, 8, 1743-1753.	3.7	17
21	Velocity-Free Attitude Control of Quadrotors: A Nonlinear Negative Imaginary Approach. Sensors, 2021, 21, 2387.	3.8	0
22	Linear open quantum systems with passive Hamiltonians and a single local dissipative process. Automatica, 2021, 125, 109477.	5.0	2
23	Two-step feedback preparation of entanglement for qubit systems with time delay. Automatica, 2021, 125, 109174.	5.0	8
24	Two-Stage Estimation for Quantum Detector Tomography: Error Analysis, Numerical and Experimental Results. IEEE Transactions on Information Theory, 2021, 67, 2293-2307.	2.4	11
25	Hybrid adaptive negative imaginary- neural-fuzzy control with model identification for a quadrotor. IFAC Journal of Systems and Control, 2021, 16, 100156.	1.7	10
26	On the capability of a class of quantum sensors. Automatica, 2021, 129, 109612.	5.0	6
27	Distributed Formation Control Using Fuzzy Self-Tuning of Strictly Negative Imaginary Consensus Controllers in Aerial Robotics. IEEE/ASME Transactions on Mechatronics, 2021, 26, 2306-2315.	5.8	19
28	Quadratic-exponential functionals of Gaussian quantum processes. Infinite Dimensional Analysis, Quantum Probability and Related Topics, 2021, 24, .	0.5	3
29	Using Systems and Control Theory Ideas in the Design of Quantum Amplifiers. , 2021, , .		1
30	Social Shaping of Linear Quadratic Multi-Agent Systems. , 2021, , .		1
31	A Closed Loop Gradient Descent Algorithm applied to Rosenbrockâ€™s function. , 2021, , .		3
32	Voltage Stability Studies for Distribution Networks: Assessing Load Dynamics. , 2021, , .		0
33	Negative Imaginary State Feedback Equivalence for Systems of Relative Degree One and Relative Degree Two. , 2021, , .		4
34	Multipoint Impedance Quantization For a Class of Annihilation Operator Linear Quantum Systems. , 2021, , .		0
35	On how neural networks enhance quantum state tomography with limited resources. , 2021, , .		5
36	Adaptive Second-Order Strictly Negative Imaginary Controllers Based on the Interval Type-2 Fuzzy Self-Tuning Systems for a Hovering Quadrotor With Uncertainties. IEEE/ASME Transactions on Mechatronics, 2020, 25, 11-20.	5.8	32

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37	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
38	Modeling for Non-Markovian Quantum Systems. IEEE Transactions on Control Systems Technology, 2020, 28, 2564-2571.	5.2	13
39	Convergence to pure steady states of linear quantum systems. Journal of Physics A: Mathematical and Theoretical, 2020, 53, 055301.	2.1	0
40	Structural decomposition for quantum two-level systems. Automatica, 2020, 113, 108751.	5.0	2
41	Design of a Quantum Projection Filter. IEEE Transactions on Automatic Control, 2020, 65, 3693-3700.	5.7	10
42	An improved quantum projection filter. Automatica, 2020, 112, 108716.	5.0	15
43	Switching time-invariant formation control of a collaborative multi-agent system using negative imaginary systems theory. Control Engineering Practice, 2020, 95, 104245.	5.5	43
44	Inverse-system method for identification of damping-rate functions in non-Markovian quantum systems. Physical Review A, 2020, 102, .	2.5	11
45	Strictly negative imaginary state feedback control with a prescribed degree of stability. Automatica, 2020, 119, 109079.	5.0	4
46	Measurement-induced Boolean dynamics and controllability for closed quantum networks. Automatica, 2020, 114, 108816.	5.0	11
47	Quantum tomography by regularized linear regressions. Automatica, 2020, 114, 108837.	5.0	8
48	Quantum Hamiltonian Identifiability via a Similarity Transformation Approach and Beyond. IEEE Transactions on Automatic Control, 2020, 65, 4632-4647.	5.7	26
49	Capability comparison of quantum sensors of single or two qubits for a spin chain system. IFAC-PapersOnLine, 2020, 53, 263-268.	0.9	2
50	Switching formation strategy with the directed dynamic topology for collision avoidance of a multi-robot system in uncertain environments. IET Control Theory and Applications, 2020, 14, 2948-2959.	2.1	15
51	Extending the piezoelectric transducer bandwidth of an optical interferometer by suppressing resonance using a high dimensional IIR filter implemented on an FPGA. Review of Scientific Instruments, 2020, 91, 055102.	1.3	4
52	Robust Output Feedback Consensus for Networked Heterogeneous Nonlinear Negative-Imaginary Systems. , 2020, , .		2
53	Control of Quantum Systems. , 2020, , 1-8.		0
54	Coherent H [∞] control for Markovian jump linear quantum systems. IFAC-PapersOnLine, 2020, 53, 269-274.	0.9	1

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55	A Girsanov Type Representation of Quadratic-Exponential Cost Functionals for Linear Quantum Stochastic Systems. , 2020, , .		4
56	Convergence to Periodic Regimes in Nonlinear Feedback Systems with a Strongly Convex Backlash. , 2020, , .		0
57	When do additional quantum noises affect controller performance?. , 2020, , .		1
58	A Systems Theory Approach to the Synthesis of Minimum Noise Non-Reciprocal Phase-Insensitive Quantum Amplifiers. , 2020, , .		1
59	Robust Formation Control of Train Platoons for Interval Maintaining. , 2020, , .		0
60	Measurement-based Feedback Control of Linear Quantum Stochastic Systems with Quadratic-Exponential Criteria. IFAC-PapersOnLine, 2020, 53, 304-309.	0.9	2
61	Frequency-Domain Computation of Quadratic-Exponential Cost Functionals for Linear Quantum Stochastic Systems. IFAC-PapersOnLine, 2020, 53, 293-298.	0.9	4
62	Positive Real Properties and Physical Realizability Conditions For a Class of Linear Quantum Systems. IFAC-PapersOnLine, 2020, 53, 281-286.	0.9	1
63	One Port Impedance Quantization For a Class of Annihilation Operator Linear Quantum Systems. IFAC-PapersOnLine, 2020, 53, 287-292.	0.9	1
64	Optimal Quantum Realization of a Classical Linear System. IFAC-PapersOnLine, 2020, 53, 257-262.	0.9	1
65	Static and dynamic coherent robust control for a class of uncertain quantum systems. Systems and Control Letters, 2020, 141, 104702.	2.3	6
66	Adaptive Quantum Process Tomography via Linear Regression Estimation. , 2020, , .		2
67	Mean Square Optimal Control by Interconnection for Linear Stochastic Hamiltonian Systems. , 2020, , .		0
68	A Systems Theory Approach to the Synthesis of Non-Reciprocal Phase-Insensitive Quantum Amplifiers. , 2019, , .		1
69	Filter-Based Feedback Control for a Class of Markovian Open Quantum Systems. , 2019, 3, 565-570.		6
70	A Karhunen-Loeve Expansion for One-mode Open Quantum Harmonic Oscillators Using the Eigenbasis of the Two-point Commutator Kernel. , 2019, , .		6
71	Effects of Parametric Uncertainties in Cascaded Open Quantum Harmonic Oscillators and Robust Generation of Gaussian Invariant States. SIAM Journal on Control and Optimization, 2019, 57, 1597-1628.	2.1	3
72	A Quantum Karhunen-Loeve Expansion and Quadratic-Exponential Functionals for Linear Quantum Stochastic Systems. , 2019, , .		6

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73	Lyapunov Control of Quantum Systems Based on Energy-Level Connectivity Graphs. IEEE Transactions on Control Systems Technology, 2019, 27, 2315-2329.	5.2	14
74	An exponential quantum projection filter for open quantum systems. Automatica, 2019, 99, 59-68.	5.0	20
75	Identification of Non-Markovian Environments for Spin Chains. IEEE Transactions on Control Systems Technology, 2019, 27, 2574-2580.	5.2	11
76	Quantum gate identification: Error analysis, numerical results and optical experiment. Automatica, 2019, 101, 269-279.	5.0	29
77	Filtering for a Class of Quantum Systems With Classical Stochastic Disturbances. IEEE Transactions on Control Systems Technology, 2019, 27, 2774-2780.	5.2	8
78	Synchronization Conditions for a Multirate Kuramoto Network With an Arbitrary Topology and Nonidentical Oscillators. IEEE Transactions on Cybernetics, 2019, 49, 2242-2254.	9.5	13
79	Parametric randomization, complex symplectic factorizations, and quadratic-exponential functionals for Gaussian quantum states. Infinite Dimensional Analysis, Quantum Probability and Related Topics, 2019, 22, 1950020.	0.5	7
80	Feedback preparation of Bell states for two-qubit systems with time delay. , 2019, , .		3
81	Robust stability conditions for feedback interconnections of distributed-parameter negative imaginary systems. Automatica, 2018, 90, 310-316.	5.0	9
82	A Survey of Methods Used to Control Piezoelectric Tube Scanners in High-Speed AFM Imaging. Asian Journal of Control, 2018, 20, 1379-1399.	3.0	39
83	Bilinear Hamiltonian interactions between linear quantum systems via feedback. Automatica, 2018, 89, 103-110.	5.0	3
84	Optimal Cooperative Guidance Law for Salvo Attack: An MPC-Based Consensus Perspective. IEEE Transactions on Aerospace and Electronic Systems, 2018, 54, 2397-2410.	4.7	60
85	The Kalman Decomposition for Linear Quantum Systems. IEEE Transactions on Automatic Control, 2018, 63, 331-346.	5.7	26
86	Adaptive Target Scheme for Learning Control of Quantum Systems. IEEE Transactions on Control Systems Technology, 2018, 26, 1259-1271.	5.2	5
87	A Modified Frequency Domain Condition for the Physical Realizability of Linear Quantum Stochastic Systems. IEEE Transactions on Automatic Control, 2018, 63, 277-282.	5.7	6
88	A Novel Application of Minimax LQG Control Technique for High-Speed Spiral Imaging. Asian Journal of Control, 2018, 20, 1400-1412.	3.0	6
89	Negative Imaginary \mathcal{H}_{∞} Controller Synthesis Using Nonlinear Optimization. , 2018, , .		1
90	Controller Synthesis to Render a Closed Loop Transfer Function Strongly Strictly Negative Imaginary. , 2018, , .		3

#	ARTICLE	IF	CITATIONS
91	Extending Negative Imaginary Systems Theory to Nonlinear Systems. , 2018, , .		15
92	Planar Cooperative Extremum Seeking with Guaranteed Convergence Using A Three-Robot Formation. , 2018, , .		2
93	Dissipative Linear Stochastic Hamiltonian Systems. , 2018, , .		2
94	Negative Imaginary State Feedback Control with a Prescribed Degree of Stability. , 2018, , .		0
95	Networked Quantum Systems. Systems and Control: Foundations and Applications, 2018, , 583-618.	0.3	0
96	Cascade and locally dissipative realizations of linear quantum systems for pure Gaussian state covariance assignment. Automatica, 2018, 90, 263-270.	5.0	10
97	Quantum Filtering for a Qubit System Subject to Classical Disturbances. , 2018, , .		3
98	A derivation of moment evolution equations for linear open quantum systems. , 2018, , .		5
99	A Quantum Hamiltonian Identification Algorithm: Computational Complexity and Error Analysis. IEEE Transactions on Automatic Control, 2018, 63, 1388-1403.	5.7	71
100	On physical realizability of nonlinear quantum stochastic differential equations. Automatica, 2018, 95, 254-265.	5.0	4
101	Robust Hybrid Nonlinear Control Systems for the Dynamics of a Quadcopter Drone. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2018, , 1-13.	9.3	32
102	A Systems Theory Approach to the Synthesis of Minimum Noise Phase-Insensitive Quantum Amplifiers. , 2018, , .		2
103	A Novel Control Approach for High-Precision Positioning of a Piezoelectric Tube Scanner. IEEE Transactions on Automation Science and Engineering, 2017, 14, 325-336.	5.2	28
104	Quantum Noises, Physical Realizability and Coherent Quantum Feedback Control. IEEE Transactions on Automatic Control, 2017, 62, 998-1003.	5.7	21
105	Performance Analysis and Coherent Guaranteed Cost Control for Uncertain Quantum Systems Using Small Gain and Popov Methods. IEEE Transactions on Automatic Control, 2017, 62, 1524-1529.	5.7	23
106	Complete elimination of nonlinear light-matter interactions with broadband ultrafast laser pulses. Physical Review A, 2017, 95, .	2.5	16
107	Rapid Lyapunov control of finite-dimensional quantum systems. Automatica, 2017, 81, 164-175.	5.0	61
108	Coherent robust control of linear quantum systems with uncertainties in the Hamiltonian and coupling operators. Automatica, 2017, 81, 8-21.	5.0	28

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109	A quantum extended Kalman filter. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2017, 50, 225301.	2.1	16
110	Dark Modes of Quantum Linear Systems. <i>IEEE Transactions on Automatic Control</i> , 2017, 62, 4180-4186.	5.7	8
111	Linear quantum systems with diagonal passive Hamiltonian and a single dissipative channel. <i>Systems and Control Letters</i> , 2017, 99, 64-71.	2.3	11
112	Robust control of photoassociation of slow O + H collision. <i>Chemical Physics</i> , 2017, 483-484, 149-155.	1.9	1
113	Identifying Strong-Field Effects in Indirect Photofragmentation Reactions. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 1-6.	4.6	49
114	A numerical approach to optimal coherent quantum LQG controller design using gradient descent. <i>Automatica</i> , 2017, 85, 314-326.	5.0	12
115	Quantum linear coherent controller synthesis: A linear fractional representation approach. <i>Automatica</i> , 2017, 85, 264-271.	5.0	1
116	Robust guaranteed-cost adaptive quantum phase estimation. <i>Physical Review A</i> , 2017, 95, .	2.5	1
117	Finite horizon H^∞ control for a class of sampled-data linear quantum systems. <i>International Journal of Robust and Nonlinear Control</i> , 2017, 27, 2292-2302.	3.7	4
118	Coherent-classical estimation for linear quantum systems. <i>Automatica</i> , 2017, 82, 109-117.	5.0	6
119	Entropy Evolution in Consensus Networks. <i>Scientific Reports</i> , 2017, 7, 1520.	3.3	2
120	Quantum Popov robust stability analysis of an optical cavity containing a saturated Kerr medium. <i>Quantum Science and Technology</i> , 2017, 2, 034009.	5.8	6
121	Time averaged consensus in a direct coupled coherent quantum observer network. <i>Control Theory and Technology</i> , 2017, 15, 163-176.	1.6	2
122	Linear Quantum System Transfer Function Realization Using Static Networks for Input/Output Processing and Feedback. <i>SIAM Journal on Control and Optimization</i> , 2017, 55, 3349-3369.	2.1	5
123	Consensus of Quantum Networks With Directed Interactions: Fixed and Switching Structures. <i>IEEE Transactions on Automatic Control</i> , 2017, 62, 2014-2019.	5.7	5
124	Feedback Tracking Control of Non-Markovian Quantum Systems. <i>IEEE Transactions on Control Systems Technology</i> , 2017, 25, 1552-1563.	5.2	22
125	Nonlinear robust state feedback control system design for nonlinear uncertain systems. <i>International Journal of Robust and Nonlinear Control</i> , 2017, 27, 2234-2252.	3.7	4
126	A Survey of Riccati Equation Results in Negative Imaginary Systems Theory and Quantum Control Theory. <i>IFAC-PapersOnLine</i> , 2017, 50, 9561-9566.	0.9	3

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127	H \hat{z} Filtering For An Optical Cavity System Disturbed By Lorentzian Quantum Noise * *This research was supported under Australian Research Council's Discovery Projects and Laureate Fellowships funding schemes (Projects DP140101779 and FL110100020), and the Air Force Office of Scientific Research (AFOSR) under agreement FA2386-16-1-4065.. IFAC-PapersOnLine, 2017, 50, 13009-13013.	0.9	0
128	A Direct Coupling Coherent Quantum Observer for a Qubit, including Observer Measurements. IFAC-PapersOnLine, 2017, 50, 4968-4972.	0.9	1
129	Lyapunov-based Stability of Feedback Interconnections of Negative Imaginary Systems. IFAC-PapersOnLine, 2017, 50, 3424-3428.	0.9	4
130	Formation control of multi-UAVs using negative-imaginary systems theory. , 2017, , .		13
131	The Kalman decomposition for Linear Quantum Stochastic Systems. , 2017, , .		3
132	Efficient identification of unitary quantum processes. , 2017, , .		1
133	Design and application of a data driven controller using the small-gain constraint for positioning control of a nano-positioner. , 2017, , .		3
134	Bounded phase synchronization of multirate kuramoto networks through decentralised or distributed control. , 2017, , .		1
135	Feedback control of a non-Markovian single qubit system. , 2017, , .		0
136	Distributed control network design for multirate kuramoto networks to achieve bounded synchronization. , 2017, , .		1
137	Lyapunov stability analysis for invariant states of quantum systems. , 2017, , .		2
138	An approximate quantum Hamiltonian identification algorithm using a Taylor expansion of the matrix exponential function. , 2017, , .		3
139	Identifying a damping rate function for a non-Markovian single qubit system. , 2017, , .		2
140	Adaptive target scheme for learning control of post-field alignment. , 2017, , .		0
141	A riccati equation negative imaginary lemma for singular negative imaginary systems. , 2017, , .		2
142	A direct coupling coherent quantum observer for an oscillatory quantum plant. , 2017, , .		3
143	Cooperative extremum seeking for a one-dimensional non-linear map using a two-robot formation. , 2017, , .		2
144	Conditions for preserving negative imaginary properties in feedback interconnections and an application to multi-agent systems. , 2017, , .		4

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145	Implementation of a distributed coherent quantum observer. , 2017, , .		3
146	Fault tolerant filtering and fault detection for quantum systems driven by fields in single photon states. Journal of Mathematical Physics, 2016, 57, .	1.1	9
147	Implementation of a direct coupling coherent quantum observer including observer measurements. , 2016, , .		7
148	A robust continuous-time fixed-lag smoother for nonlinear uncertain systems. International Journal of Robust and Nonlinear Control, 2016, 26, 345-364.	3.7	2
149	Learning control of population transfer between subspaces of quantum systems using an adaptive target scheme. , 2016, , .		4
150	On transfer function realizations for Linear Quantum Stochastic Systems. , 2016, , .		2
151	An iterative algorithm for Hamiltonian identification of quantum systems. , 2016, , .		4
152	Extended Kalman Filter for indoor and outdoor localization of a wheeled mobile robot. , 2016, , .		6
153	Pure Gaussian quantum states from passive Hamiltonians and an active local dissipative process. , 2016, , .		2
154	Robust H^∞ coherent-classical estimation of linear quantum systems. , 2016, , .		0
155	Learning control for maximizing the purity at a fixed time in an open quantum system. , 2016, , .		0
156	LQG feedback control of a class of linear non-Markovian quantum systems. , 2016, , .		3
157	Directly coupled observers for quantum harmonic oscillators with discounted mean square cost functionals and penalized back-action*. , 2016, , .		4
158	A direct method for analysis and synthesis of a decoherence-free mode in quantum linear systems. , 2016, , .		0
159	Controller synthesis for negative imaginary systems: a data driven approach. IET Control Theory and Applications, 2016, 10, 1480-1486.	2.1	15
160	Sampling-based robust control in synchronizing collision with shaped laser pulses: an application in charge transfer for $H^{\sup} + D \hat{t}^{\sup} H + D^{\sup}$. RSC Advances, 2016, 6, 92962-92969.	3.6	6
161	Negative imaginary systems theory and applications. Annual Reviews in Control, 2016, 42, 309-318.	7.9	48
162	Coherent observers for linear quantum stochastic systems. Automatica, 2016, 71, 264-271.	5.0	16

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163	Error compensation in atomic force microscope scanned images. <i>Micro and Nano Letters</i> , 2016, 11, 38-40.	1.3	1
164	Experimental Demonstration of Frequency Autolocking an Optical Cavity Using a Time-Varying Kalman Filter. <i>Physical Review Applied</i> , 2016, 5, .	3.8	3
165	Learning robust pulses for generating universal quantum gates. <i>Scientific Reports</i> , 2016, 6, 36090.	3.3	43
166	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.	2.1	11
167	Fast machine-learning online optimization of ultra-cold-atom experiments. <i>Scientific Reports</i> , 2016, 6, 25890.	3.3	149
168	A reduced order direct coupling coherent quantum observer for a complex quantum plant. , 2016, , .		2
169	Robust H_∞ estimation of uncertain linear quantum systems. <i>International Journal of Robust and Nonlinear Control</i> , 2016, 26, 3723-3736.	3.7	4
170	Partial fingerprint indexing: a combination of local and reconstructed global features. <i>Concurrency Computation Practice and Experience</i> , 2016, 28, 2940-2957.	2.2	9
171	Reduction of phase error between sinusoidal motions and vibration of a tube scanner during spiral scanning using an AFM. <i>International Journal of Control, Automation and Systems</i> , 2016, 14, 505-513.	2.7	10
172	Output feedback negative imaginary synthesis under structural constraints. <i>Automatica</i> , 2016, 71, 222-228.	5.0	41
173	Fault tolerant quantum filtering and fault detection for quantum systems. <i>Automatica</i> , 2016, 71, 125-134.	5.0	39
174	Realizing the dynamics of a non-Markovian quantum system by Markovian coupled oscillators: a Green's function-based root locus approach. <i>Quantum Information Processing</i> , 2016, 15, 1001-1018.	2.2	11
175	Physical Realizability and Preservation of Commutation and Anticommutation Relations for n -Level Quantum Systems. <i>SIAM Journal on Control and Optimization</i> , 2016, 54, 632-661.	2.1	11
176	The transfer function of generic linear quantum stochastic systems has a pure cascade realization. <i>Automatica</i> , 2016, 69, 324-333.	5.0	15
177	Linear Threshold Discrete-Time Recurrent Neural Networks: Stability and Globally Attractive Sets. <i>IEEE Transactions on Automatic Control</i> , 2016, 61, 2650-2656.	5.7	12
178	Quantum Linear Systems Theory. <i>Open Automation and Control Systems Journal</i> , 2016, 8, 67-93.	0.9	55
179	Design of a robust controller for vibration control of a piezoelectric tube scanner. , 2015, , .		2
180	Quantum filter for a class of non-Markovian quantum systems. , 2015, , .		11

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181	Descriptor systems state-space conditions to guarantee negative imaginary properties without minimality restrictions. , 2015, , .		1
182	Covariance dynamics and entanglement in translation invariant linear quantum stochastic networks. , 2015, , .		2
183	A gradient descent approach to optimal coherent quantum LQG controller design. , 2015, , .		5
184	Quantum filter for a non-Markovian single qubit system. , 2015, , .		5
185	State Distributions and Minimum Relative Entropy Noise Sequences in Uncertain Stochastic Systems: The Discrete-Time Case. SIAM Journal on Control and Optimization, 2015, 53, 1107-1153.	2.1	6
186	Improved 3D imaging performance of MPC. , 2015, , .		1
187	Relative performance of spiral scan over raster scan in the AFM imaging. , 2015, , .		0
188	Data driven controller synthesis for negative imaginary systems. , 2015, , .		2
189	Coherent robust H [∞] control of uncertain linear quantum stochastic systems. , 2015, , .		3
190	A root locus approach to constructing Markovian coupled oscillators to capture the dynamics of a non-Markovian quantum system. , 2015, , .		0
191	Guaranteed cost dynamic coherent control for a class of uncertain linear quantum systems. , 2015, , .		2
192	A decoherence theorem in quantum-network synchronization. , 2015, , .		1
193	Time averaged consensus in a direct coupled distributed coherent quantum observer. , 2015, , .		6
194	Learning control of charge transfer in molecular systems. , 2015, , .		4
195	Robust spiral positioning control of a piezoelectric tube scanner. , 2015, , .		0
196	Reaching a Quantum Consensus: Master Equations that Generate Symmetrization and Synchronization. IEEE Transactions on Automatic Control, 2015, , 1-1.	5.7	15
197	A unified framework for fault tolerant quantum filtering and fault detection. , 2015, , .		2
198	Synthesis of Linear Coherent Quantum Control Systems Using A Differential Evolution Algorithm. IEEE Transactions on Automatic Control, 2015, 60, 799-805.	5.7	10

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199	Robust Output Feedback Consensus for Networked Negative-Imaginary Systems. IEEE Transactions on Automatic Control, 2015, 60, 2547-2552.	5.7	71
200	A generalized negative imaginary lemma and Riccati-based static state-feedback negative imaginary synthesis. Systems and Control Letters, 2015, 77, 63-68.	2.3	44
201	Effect of Improved Tracking for Atomic Force Microscope on Piezo Nonlinear Behavior. Asian Journal of Control, 2015, 17, 747-761.	3.0	24
202	Design and Implementation of an Optical Cavity Locking Controller Test Bed System. IEEE Transactions on Control Systems Technology, 2015, 23, 715-721.	5.2	1
203	Multivariable Negative-Imaginary Controller Design for Damping and Cross Coupling Reduction of Nanopositioners: A Reference Model Matching Approach. IEEE/ASME Transactions on Mechatronics, 2015, 20, 3123-3134.	5.8	30
204	Using Inverse Nonlinearities in Robust Output Feedback Guaranteed Cost Control of Nonlinear Systems. IEEE Transactions on Automatic Control, 2015, 60, 1139-1144.	5.7	6
205	Witnessing the boundary between Markovian and non-Markovian quantum dynamics: a Greenâ€™s function approach. Quantum Information Processing, 2015, 14, 2657-2672.	2.2	9
206	Robust manipulation of superconducting qubits in the presence of fluctuations. Scientific Reports, 2015, 5, 7873.	3.3	72
207	Sampling-Based Learning Control for Quantum Systems With Uncertainties. IEEE Transactions on Control Systems Technology, 2015, 23, 2155-2166.	5.2	55
208	A MIMO Double Resonant Controller Design for Nanopositioners. IEEE Nanotechnology Magazine, 2015, 14, 224-237.	2.0	25
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