Ian Petersen

List of Publications by Year
in descending order

564 papers	16,536 citations	25034 57 h-index	23533 111 g-index
565 all docs	565 docs citations	565 times ranked	4728 citing authors

#	Article	IF	Citations
1	A stabilization algorithm for a class of uncertain linear systems. Systems and Control Letters, 1987, 8, 351-357.	2.3	1,369
2	Robust stabilization of uncertain linear systems: quadratic stabilizability and H/sup infinity / control theory. IEEE Transactions on Automatic Control, 1990, 35, 356-361.	5.7	1,342
3	A riccati equation approach to the stabilization of uncertain linear systems. Automatica, 1986, 22, 397-411.	5.0	794
4	Optimal guaranteed cost control and filtering for uncertain linear systems. IEEE Transactions on Automatic Control, 1994, 39, 1971-1977.	5.7	483
5	Quantum control theory and applications: a survey. IET Control Theory and Applications, 2010, 4, 2651-2671.	2.1	420
6	H^{infty} Control of Linear Quantum Stochastic Systems. IEEE Transactions on Automatic Control, 2008, 53, 1787-1803.	5.7	394
7	Robust Control Design Using H-âˆž Methods. Communications and Control Engineering, 2000, , .	1.6	352
8	Robust Kalman Filtering for Signals and Systems with Large Uncertainties. , 1999, , .		323
9	Disturbance attenuation and<tex>H^{âˆž}</tex>optimization: A design method based on the algebraic Riccati equation. IEEE Transactions on Automatic Control, 1987, 32, 427-429.	5.7	316
10	Stability Robustness of a Feedback Interconnection of Systems With Negative Imaginary Frequency Response. IEEE Transactions on Automatic Control, 2008, 53, 1042-1046.	5.7	284
11	Feedback Control of Negative-Imaginary Systems. IEEE Control Systems, 2010, 30, 54-72.	0.8	257
12	Coherent quantum LQG control. Automatica, 2009, 45, 1837-1846.	5.0	248
13	Minimax optimal control of stochastic uncertain systems with relative entropy constraints. IEEE Transactions on Automatic Control, 2000, 45, 398-412.	5.7	239
14	Stability results for switched controller systems. Automatica, 1999, 35, 553-564.	5.0	229
15	A first principles solution to the nonâ€singular <i>H</i>^{âˆž} control problem. International Journal of Robust and Nonlinear Control, 1991, 1, 171-185.	3.7	220
16	Robust control of uncertain systems: Classical results and recent developments. Automatica, 2014, 50, 1315-1335.	5.0	191
17	H/sub infinity /-optimal control with state-feedback. IEEE Transactions on Automatic Control, 1988, 33, 786-788.	5.7	189
18	A Negative Imaginary Lemma and the Stability of Interconnections of Linear Negative Imaginary Systems. IEEE Transactions on Automatic Control, 2010, 55, 2342-2347.	5.7	158

#	ARTICLE	IF	CITATIONS
19	Fast machine-learning online optimization of ultra-cold-atom experiments. Scientific Reports, 2016, 6, 25890.	3.3	149
20	Generalizing Negative Imaginary Systems Theory to Include Free Body Dynamics: Control of Highly Resonant Structures With Free Body Motion. IEEE Transactions on Automatic Control, 2014, 59, 2692-2707.	5.7	123
21	High-speed cycloid-scan atomic force microscopy. Nanotechnology, 2010, 21, 365503.	2.6	121
22	A Negative Imaginary Approach to Modeling and Control of a Collocated Structure. IEEE/ASME Transactions on Mechatronics, 2012, 17, 717-727.	5.8	120
23	Sliding mode control of two-level quantum systems. Automatica, 2012, 48, 725-735.	5.0	119
24	Robust state estimation and model validation for discrete-time uncertain systems with a deterministic description of noise and uncertainty. Automatica, 1998, 34, 271-274.	5.0	118
25	Robustness and risk-sensitive filtering. IEEE Transactions on Automatic Control, 2002, 47, 451-461.	5.7	110
26	Recursive state estimation for uncertain systems with an integral quadratic constraint. IEEE Transactions on Automatic Control, 1995, 40, 1080-1083.	5.7	109
27	Minimax optimal control of uncertain systems with structured uncertainty. International Journal of Robust and Nonlinear Control, 1995, 5, 119-137.	3.7	106
28	Monotonicity and stabilizability- properties of solutions of the Riccati difference equation: Propositions, lemmas, theorems, fallacious conjectures and counterexamples. Systems and Control Letters, 1985, 5, 309-315.	2.3	104
29	Robust pole assignment. Automatica, 1987, 23, 601-610.	5.0	103
30	Optimal guaranteed cost filtering for uncertain discrete-time linear systems. International Journal of Robust and Nonlinear Control, 1996, 6, 267-280.	3.7	102
31	Linear ultimate boundedness control of uncertain dynamical systems. Automatica, 1983, 19, 523-532.	5.0	97
32	Sliding mode control of quantum systems. New Journal of Physics, 2009, 11, 105033.	2.9	95
33	Sampling-based learning control of inhomogeneous quantum ensembles. Physical Review A, 2014, 89, .	2.5	92
34	Optimal guaranteed cost control of discrete-time uncertain linear systems. International Journal of Robust and Nonlinear Control, 1998, 8, 649-657.	3.7	91
35	Optimal Lyapunov-based quantum control for quantum systems. Physical Review A, 2012, 86, .	2.5	83
36	Optimal guaranteed cost control of uncertain systems via static and dynamic output feedback. Automatica, 1996, 32, 575-579.	5.0	78

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37	An LMI approach to output-feedback-guaranteed cost control for uncertain time-delay systems. International Journal of Robust and Nonlinear Control, 2000, 10, 157-174.	3.7	75
38	A negative-imaginary lemma without minimality assumptions and robust state-feedback synthesis for uncertain negative-imaginary systems. Systems and Control Letters, 2012, 61, 1269-1276.	2.3	75
39	Linear quadratic differential games with cheap control. Systems and Control Letters, 1986, 8, 181-188.	2.3	73
40	Set-valued state estimation via a limited capacity communication channel. IEEE Transactions on Automatic Control, 2003, 48, 676-680.	5.7	73
41	Coherent H^{∞} Control for a Class of Annihilation Operator Linear Quantum Systems. IEEE Transactions on Automatic Control, 2011, 56, 309-319.	5.7	73
42	Robust manipulation of superconducting qubits in the presence of fluctuations. Scientific Reports, 2015, 5, 7873.	3.3	72
43	A connection between control and the absolute stabilizability of uncertain systems. Systems and Control Letters, 1994, 23, 197-203.	2.3	71
44	Model validation for robust control of uncertain systems with an integral quadratic constraint. Automatica, 1996, 32, 603-606.	5.0	71
45	Robust Output Feedback Consensus for Networked Negative-Imaginary Systems. IEEE Transactions on Automatic Control, 2015, 60, 2547-2552.	5.7	71
46	A Quantum Hamiltonian Identification Algorithm: Computational Complexity and Error Analysis. IEEE Transactions on Automatic Control, 2018, 63, 1388-1403.	5.7	71
47	Stabilization of an Uncertain Linear System in which Uncertain Parameters Enter Into the Input Matrix. SIAM Journal on Control and Optimization, 1988, 26, 1257-1264.	2.1	68
48	Bounded Real Properties for a Class of Annihilation-Operator Linear Quantum Systems. IEEE Transactions on Automatic Control, 2011, 56, 786-801.	5.7	68
49	Nonlinear versus linear control in the absolute stabilizability of uncertain systems with structured uncertainty. IEEE Transactions on Automatic Control, 1995, 40, 122-127.	5.7	67
50	Avoiding entanglement sudden death via measurement feedback control in a quantum network. Physical Review A, 2008, 78, .	2.5	67
51	Minimax LQG optimal control of a flexible beam. Control Engineering Practice, 2003, 11, 1273-1287.	5.5	65
52	Spiral Scanning With Improved Control for Faster Imaging of AFM. IEEE Nanotechnology Magazine, 2014, 13, 541-550.	2.0	63
53	Spectral Conditions for Negative Imaginary Systems With Applications to Nanopositioning. IEEE/ASME Transactions on Mechatronics, 2014, 19, 895-903.	5.8	63
54	Rapid Lyapunov control of finite-dimensional quantum systems. Automatica, 2017, 81, 164-175.	5.0	61

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55	Model validation and state estimation for uncertain continuous-time systems with missing discrete-continuous data. Computers and Electrical Engineering, 1999, 25, 29-43.	4.8	60
56	Finite Horizon Minimax Optimal Control of Stochastic Partially Observed Time Varying Uncertain Systems. Mathematics of Control, Signals, and Systems, 1999, 12, 1-23.	2.3	60
57	A Frequency Domain Condition for the Physical Realizability of Linear Quantum Systems. IEEE Transactions on Automatic Control, 2012, 57, 2033-2044.	5.7	60
58	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
59	A procedure for simultaneously stabilizing a collection of single input linear systems using non-linear state feedback control. Automatica, 1987, 23, 33-40.	5.0	59
60	Robust stabilization of linear uncertain discrete-time systems via a limited capacity communication channel. Systems and Control Letters, 2004, 53, 347-360.	2.3	59
61	Resonant Controller Design for a Piezoelectric Tube Scanner: A Mixed Negative-Imaginary and Small-Gain Approach. IEEE Transactions on Control Systems Technology, 2014, 22, 1899-1906.	5.2	59
62	Structural Stabilization of Uncertain Systems: Necessity of the Matching Condition. SIAM Journal on Control and Optimization, 1985, 23, 286-296.	2.1	57
63	Absolute Stabilization and Minimax Optimal Control of Uncertain Systems with Stochastic Uncertainty. SIAM Journal on Control and Optimization, 1999, 37, 1089-1122.	2.1	57
64	Robust Properties of Risk-Sensitive Control. Mathematics of Control, Signals, and Systems, 2000, 13, 318-332.	2.3	57
65	Robust cooperative control of multiple heterogeneous Negative-Imaginary systems. Automatica, 2015, 61, 64-72.	5.0	56
66	Sampling-Based Learning Control for Quantum Systems With Uncertainties. IEEE Transactions on Control Systems Technology, 2015, 23, 2155-2166.	5.2	55
67	Quantum Linear Systems Theory. Open Automation and Control Systems Journal, 2016, 8, 67-93.	0.9	55
68	Nonlinear state estimation for uncertain systems with an integral constraint. IEEE Transactions on Signal Processing, 1998, 46, 2926-2937.	5.3	54
69	Creep, Hysteresis, and Cross-Coupling Reduction in the High-Precision Positioning of the Piezoelectric Scanner Stage of an Atomic Force Microscope. IEEE Nanotechnology Magazine, 2013, 12, 1125-1134.	2.0	54
70	Systems with structured uncertainty: relations between quadratic and robust stability. IEEE Transactions on Automatic Control, 1993, 38, 799-803.	5.7	53
71	Hybrid dynamical systems: robust control synthesis problems. Systems and Control Letters, 1996, 29, 81-90.	2.3	51
72	Minimax LQG Control of Stochastic Partially Observed Uncertain Systems. SIAM Journal on Control and Optimization, 2002, 40, 1189-1226.	2.1	51

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73	Notions of stabilizability and controllability for a class of uncertain linear systems. International Journal of Control, 1987, 46, 409-422.	1.9	49
74	Identifying Strong-Field Effects in Indirect Photofragmentation Reactions. Journal of Physical Chemistry Letters, 2017, 8, 1-6.	4.6	49
75	Negative imaginary systems theory and applications. Annual Reviews in Control, 2016, 42, 309-318.	7.9	48
76	High gain observers applied to problems in the stabilization of uncertain linear systems, disturbance attenuation and N^{∞} optimization. International Journal of Adaptive Control and Signal Processing, 1988, 2, 347-369.	4.1	47
77	Quadratic stabilizability of uncertain linear systems containing both constant and time-varying uncertain parameters. Journal of Optimization Theory and Applications, 1988, 57, 439-461.	1.5	47
78	Decentralized state-feedback stabilization and robust control of uncertain large-scale systems with integrally constrained interconnections. Systems and Control Letters, 2000, 40, 107-119.	2.3	47
79	Tracking of Triangular Reference Signals Using LQG Controllers for Lateral Positioning of an AFM Scanner Stage. IEEE/ASME Transactions on Mechatronics, 2014, 19, 1105-1114.	5.8	47
80	A miscellany of results of an equation of Count J. F. Riccati. IEEE Transactions on Automatic Control, 1986, 31, 651-654.	5.7	45
81	A new extension to Kharitonov's theorem. , 1987, , .		45
82	A Discrete-Time Robust Extended Kalman Filter for Uncertain Systems With Sum Quadratic Constraints. IEEE Transactions on Automatic Control, 2009, 54, 850-854.	5.7	45
83	Towards Controller Synthesis for Systems with Negative Imaginary Frequency Response. IEEE Transactions on Automatic Control, 2010, 55, 1506-1511.	5.7	45
84	Cascade cavity realization for a class of complex transfer functions arising in coherent quantum feedback control. Automatica, 2011, 47, 1757-1763.	5.0	44
85	Uncertainty modeling and robust minimax LQR control of multivariable nonlinear systems with application to hypersonic flight. Asian Journal of Control, 2012, 14, 1180-1193.	3.0	44
86	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
87	Robust stability of uncertain linear quantum systems. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2012, 370, 5354-5363.	3.4	43
88	Robust performance analysis for uncertain negative‐imaginary systems. International Journal of Robust and Nonlinear Control, 2012, 22, 262-281.	3.7	43
89	Learning robust pulses for generating universal quantum gates. Scientific Reports, 2016, 6, 36090.	3.3	43
90	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

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91	On lossless negative imaginary systems. Automatica, 2012, 48, 1213-1217.	5.0	41
92	Output feedback negative imaginary synthesis under structural constraints. Automatica, 2016, 71, 222-228.	5.0	41
93	Notes on sliding mode control of two-level quantum systems. Automatica, 2012, 48, 3089-3097.	5.0	39
94	Fault tolerant quantum filtering and fault detection for quantum systems. Automatica, 2016, 71, 125-134.	5.0	39
95	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
96	Robust incoherent control of qubit systems via switching and optimisation. International Journal of Control, 2010, 83, 206-217.	1.9	38
97	Sampled-Data Design for Robust Control of a Single Qubit. IEEE Transactions on Automatic Control, 2013, 58, 2654-2659.	5.7	38
98	A strongly strict negative-imaginary lemma for non-minimal linear systems. Communications in Information and Systems, 2011, 11, 139-142.	0.5	38
99	Structured dissipativeness and absolute stability of nonlinear systems. International Journal of Control, 1995, 62, 443-460.	1.9	37
100	Robust filtering with missing data and a deterministic description of noise and uncertainty. International Journal of Systems Science, 1997, 28, 373-378.	5.5	37
101	Spatial balanced model reduction for flexible structures. Automatica, 1999, 35, 269-277.	5.0	36
102	Some new results on algebraic Riccati equations arising in linear quadratic differential games and the stabilization of uncertain linear systems. Systems and Control Letters, 1988, 10, 341-348.	2.3	35
103	Frequency locking of an optical cavity using linear‐quadratic Gaussian integral control. Journal of Physics B: Atomic, Molecular and Optical Physics, 2009, 42, 175501.	1.5	35
104	Quantum estimation, control and learning: Opportunities and challenges. Annual Reviews in Control, 2022, 54, 243-251.	7.9	34
105	Local Mode Dependent Decentralized Stabilization of Uncertain Markovian Jump Large-Scale Systems. IEEE Transactions on Automatic Control, 2009, 54, 2632-2637.	5.7	33
106	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
107	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
108	Probabilistic distances between finite-state finite-alphabet hidden Markov models. IEEE Transactions on Automatic Control, 2005, 50, 505-511.	5.7	31

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109	Finite Frequency Negative Imaginary Systems. IEEE Transactions on Automatic Control, 2012, 57, 2917-2922.	5.7	31
110	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
111	An LMI approach to output‐feedback‐guaranteed cost control for uncertain time‐delay systems. International Journal of Robust and Nonlinear Control, 2000, 10, 157-174.	3.7	30
112	A quasi-separation principle and Newton-like scheme for coherent quantum LQG control. Systems and Control Letters, 2013, 62, 550-559.	2.3	29
113	Quantum gate identification: Error analysis, numerical results and optical experiment. Automatica, 2019, 101, 269-279.	5.0	29
114	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
115	Coherent robust <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif display="inline" overflow="scroll"><mml:msup><mml:mrow><mml:mi>H</mml:mi></mml:mrow><mml:mrow><mml:mi>∞</mml:mi></mml:mrow></mml:msup></mml:math> control of linear quantum systems with uncertainties in the Hamiltonian and coupling operators. Automatica, 2017, 81, 8-21.	5.0	28
116	Control effort considerations in the stabilization of uncertain dynamical systems. Systems and Control Letters, 1987, 9, 417-422.	2.3	27
117	Robust finite horizon minimax filtering for discrete-time stochastic uncertain systems. Systems and Control Letters, 2004, 52, 99-112.	2.3	27
118	Pulsed quantum cascade laser-based CRDS substance detection: real-time detection of TNT. Optics Express, 2012, 20, 15489.	3.4	26
119	Optimal Lyapunov quantum control of two-level systems: Convergence and extended techniques. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 1074-1080.	2.1	26
120	The Kalman Decomposition for Linear Quantum Systems. IEEE Transactions on Automatic Control, 2018, 63, 331-346.	5.7	26
121	Quantum Hamiltonian Identifiability via a Similarity Transformation Approach and Beyond. IEEE Transactions on Automatic Control, 2020, 65, 4632-4647.	5.7	26
122	A modified positive-real type stability condition. , 2007, , .		25
123	Coherent H<sup>&#x221E;</sup> control for a class of linear complex quantum systems. , 2009, , .		25
124	A benchmark 3D fingerprint database. , 2014, , .		25
125	High-speed spiral imaging technique for an atomic force microscope using a linear quadratic Gaussian controller. Review of Scientific Instruments, 2014, 85, 033706.	1.3	25
126	A MIMO Double Resonant Controller Design for Nanopositioners. IEEE Nanotechnology Magazine, 2015, 14, 224-237.	2.0	25

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127	Robust H^{∞} Control of an Uncertain System Via a Stable Output Feedback Controller. IEEE Transactions on Automatic Control, 2009, 54, 1418-1423.	5.7	24
128	Effect of Improved Tracking for Atomic Force Microscope on Piezo Nonlinear Behavior. Asian Journal of Control, 2015, 17, 747-761.	3.0	24
129	Notions of Observability for Uncertain Linear Systems with Structured Uncertainty. SIAM Journal on Control and Optimization, 2002, 41, 345-361.	2.1	23
130	Feedback linearization-based robust nonlinear control design for hypersonic flight vehicles. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2013, 227, 3-11.	1.0	23
131	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
132	Optimizing the Guaranteed Cost in the Control of Uncertain Linear Systems. , 1992, , 241-250.		23
133	Guaranteed cost control of uncertain systems via Lur'e-Postnikov Lyapunov functions. Automatica, 2000, 36, 279-285.	5.0	22
134	Robust minimax optimal control of nonlinear uncertain systems using feedback linearization with application to hypersonic flight vehicles. , 2009, , .		22
135	Resonant controller for fast atomic force microscopy. , 2012, , .		22
136	Robust decentralized stabilization of Markovian jump large-scale systems: A neighboring mode dependent control approach. Automatica, 2013, 49, 3105-3111.	5.0	22
137	Feedback Tracking Control of Non-Markovian Quantum Systems. IEEE Transactions on Control Systems Technology, 2017, 25, 1552-1563.	5.2	22
138	Guaranteed Cost Control of Uncertain Systems with a Time-Multiplied Quadratic Cost Function: An Approach Based on Linear Matrix Inequalities. Automatica, 1998, 34, 651-654.	5.0	21
139	Robust Output Feedback Guaranteed Cost Control of Nonlinear Stochastic Uncertain Systems Via an IQC Approach. IEEE Transactions on Automatic Control, 2009, 54, 1299-1304.	5.7	21
140	Quantum Noises, Physical Realizability and Coherent Quantum Feedback Control. IEEE Transactions on Automatic Control, 2017, 62, 998-1003.	5.7	21
141	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
142	Robust filtering of stochastic uncertain systems on an infinite time horizon. International Journal of Control, 2002, 75, 614-626.	1.9	20
143	Uncertainty Modeling and Robust Minimax LQR Control of Hypersonic Flight Vehicles. , 2010, , .		20
144	Model predictive control of atomic force microscope for fast image scanning. , 2012, , .		20

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145	An exponential quantum projection filter for open quantum systems. Automatica, 2019, 99, 59-68.	5.0	20
146	Optimal Guaranteed Cost Control of Uncertain Linear System. , 1992, , .		19
147	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
148	A connection between Hâˆž control and the absolute stabilizability of discrete-time uncertain linear systems. Automatica, 1995, 31, 1193-1195.	5.0	18
149	An uncertainty averaging approach to optimal guaranteed cost control of uncertain systems with structured uncertainty. Automatica, 1995, 31, 1649-1653.	5.0	18
150	Broadband disturbance attenuation over an entire beam. , 1997, , .		18
151	Robust guaranteed cost state estimation for nonlinear stochastic uncertain systems via an IQC approach. Systems and Control Letters, 2009, 58, 865-870.	2.3	18
152	On the worst-case disturbance of minimax optimal control. Automatica, 2005, 41, 847-855.	5.0	17
153	A new stability result for the feedback interconnection of negative imaginary systems with a pole at the origin. , 2011, , .		17
154	Design of a Discrete-Time Fault-Tolerant Quantum Filter and Fault Detector. IEEE Transactions on Cybernetics, 2021, 51, 889-899.	9.5	17
155	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
156	A method for robust stabilization related to the Popov stability criterion. International Journal of Control, 1995, 62, 1105-1115.	1.9	16
157	Uncertainty-Averaging approach to output feedback optimal guaranteed cost control of uncertain systems. Journal of Optimization Theory and Applications, 1996, 88, 321-337.	1.5	16
158	Stability analysis of positive feedback interconnections of linear negative imaginary systems. , 2009, , .		16
159	Controllability of quantum systems with switching control. International Journal of Control, 2011, 84, 37-46.	1.9	16
160	A Popov stability condition for uncertain linear quantum systems. , 2013, , .		16
161	Coherent observers for linear quantum stochastic systems. Automatica, 2016, 71, 264-271.	5.0	16
162	Complete elimination of nonlinear light-matter interactions with broadband ultrafast laser pulses. Physical Review A, 2017, 95, .	2.5	16

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163	A quantum extended Kalman filter. Journal of Physics A: Mathematical and Theoretical, 2017, 50, 225301.	2.1	16
164	Coherent LQG control for a class of linear complex quantum systems. , 2009, , .		15
165	Homodyne locking of a squeezer. Optics Letters, 2009, 34, 2465.	3.3	15
166	A direct coupling coherent quantum observer. , 2014, , .		15
167	Reaching a Quantum Consensus: Master Equations that Generate Symmetrization and Synchronization. IEEE Transactions on Automatic Control, 2015, , 1-1.	5.7	15
168	Controller synthesis for negative imaginary systems: a data driven approach. IET Control Theory and Applications, 2016, 10, 1480-1486.	2.1	15
169	The transfer function of generic linear quantum stochastic systems has a pure cascade realization. Automatica, 2016, 69, 324-333.	5.0	15
170	Extending Negative Imaginary Systems Theory to Nonlinear Systems. , 2018, , .		15
171	An improved quantum projection filter. Automatica, 2020, 112, 108716.	5.0	15
172	Switching formation strategy with the directed dynamic topology for collision avoidance of a multiâ€robot system in uncertain environments. IET Control Theory and Applications, 2020, 14, 2948-2959.	2.1	15
173	High-gain observer approach to disturbance attenuation using measurement feedback. International Journal of Control, 1988, 48, 2453-2464.	1.9	14
174	Multivariable integral control of resonant structures. , 2008, , .		14
175	On the physical realizability of general linear Quantum Stochastic Differential Equations with complex coefficients. , 2009, , .		14
176	Robust nonlinear control design of a hypersonic flight vehicle using minimax linear quadratic Gaussian control. , 2010, , .		14
177	Lyapunov Control of Quantum Systems Based on Energy-Level Connectivity Graphs. IEEE Transactions on Control Systems Technology, 2019, 27, 2315-2329.	5.2	14
178	Robust observability for a class of time-varying discrete-time uncertain systems. Systems and Control Letters, 1996, 27, 261-266.	2.3	13
179	Robust stability and performance of stochastic uncertain systems on an infinite time interval. Systems and Control Letters, 2001, 44, 291-308.	2.3	13
180	Robust Unobservability for Uncertain Linear Systems With Structured Uncertainty. IEEE Transactions on Automatic Control, 2007, 52, 1461-1469.	5.7	13

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181	Guaranteed cost control of stochastic uncertain systems with slope bounded nonlinearities via the use of dynamic multipliers. Automatica, 2011, 47, 411-417.	5.0	13
182	Low frequency approximation for a class of linear quantum systems using cascade cavity realization. Systems and Control Letters, 2012, 61, 173-179.	2.3	13
183	Singular Perturbation Approximations for a Class of Linear Quantum Systems. IEEE Transactions on Automatic Control, 2013, 58, 193-198.	5.7	13
184	Sampling-based learning control for quantum systems with hamiltonian uncertainties. , 2013, , .		13
185	Stability analysis for interconnected systems with &#x201C;mixed&#x201D; passivity, negative-imaginary and small-gain properties. , 2013, , .		13
186	Resonant control of atomic force microscope scanner: A &#x201C;mixed&#x201D; negative-imaginary and small-gain approach. , 2013, , .		13
187	Formation control of multi-UAVs using negative-imaginary systems theory. , 2017, , .		13
188	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
189	Modeling for Non-Markovian Quantum Systems. IEEE Transactions on Control Systems Technology, 2020, 28, 2564-2571.	5.2	13
190	Multi-point Gaussian States, Quadraticâ€"Exponential Cost Functionals, and Large Deviations Estimates for Linear Quantum Stochastic Systems. Applied Mathematics and Optimization, 2021, 83, 83-137.	1.6	13
191	Structured dissipativity and absolute stability of nonlinear systems. , 1996, , 287-307.		12
192	Minimax Optimal Control of Discrete-Time Uncertain Systems With Structured Uncertainty. Journal of Dynamical and Control Systems, 1997, 7, 5-24.	0.4	12
193	A method for simultaneous strong stabilization of linear time-varying systems. International Journal of Systems Science, 2000, 31, 685-689.	5.5	12
194	Robust output feedback stabilization via risk-sensitive control. Automatica, 2002, 38, 945-955.	5.0	12
195	Finite Horizon Robust State Estimation for Uncertain Finite-Alphabet Hidden Markov Models with Conditional Relative Entropy Constraints. SIAM Journal on Control and Optimization, 2008, 47, 476-508.	2.1	12
196	Stabilization of uncertain negative-imaginary systems via state-feedback control. , 2009, , .		12
197	Robust nonlinear control of a nonlinear uncertain system with input coupling and its application to hypersonic flight vehicles. , 2010, , .		12
198	Nonlinear estimation of ring-down time for a Fabry-Perot optical cavity. Optics Express, 2011, 19, 6377.	3.4	12

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