

Wassim M Haddad

List of Publications by Year in descending order

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314
papers

8,193
citations

71061

41
h-index

88593

70
g-index

318
all docs

318
docs citations

318
times ranked

3895
citing authors

#	ARTICLE	IF	CITATIONS
1	Impulsive and Hybrid Dynamical Systems. , 2006, , .		427
2	Nonnegative and Compartmental Dynamical Systems. , 2010, , .		283
3	Finite-Time Semistability and Consensus for Nonlinear Dynamical Networks. IEEE Transactions on Automatic Control, 2008, 53, 1887-1900.	3.6	274
4	An Adaptive Control Architecture for Mitigating Sensor and Actuator Attacks in Cyber-Physical Systems. IEEE Transactions on Automatic Control, 2017, 62, 6058-6064.	3.6	272
5	Stability theory for nonnegative and compartmental dynamical systems with time delay. Systems and Control Letters, 2004, 51, 355-361.	1.3	254
6	Distributed nonlinear control algorithms for network consensus. Automatica, 2008, 44, 2375-2381.	3.0	235
7	Explicit construction of quadratic Lyapunov functions for the small gain, positivity, circle, and popov theorems and their application to robust stability. Part I: Continuous-time theory. International Journal of Robust and Nonlinear Control, 1993, 3, 313-339.	2.1	193
8	Low-Frequency Learning and Fast Adaptation in Model Reference Adaptive Control. IEEE Transactions on Automatic Control, 2013, 58, 1080-1085.	3.6	185
9	Steady-state Kalman filtering with an error bound. Systems and Control Letters, 1989, 12, 9-16.	1.3	175
10	Modeling and analysis of mass-action kinetics. IEEE Control Systems, 2009, 29, 60-78.	1.0	167
11	Stability and dissipativity theory for nonnegative dynamical systems: a unified analysis framework for biological and physiological systems. Nonlinear Analysis: Real World Applications, 2005, 6, 35-65.	0.9	161
12	Robust stabilization with positive real uncertainty: Beyond the small gain theorem. Systems and Control Letters, 1991, 17, 191-208.	1.3	123
13	Semistability, Finite-Time Stability, Differential Inclusions, and Discontinuous Dynamical Systems Having a Continuum of Equilibria. IEEE Transactions on Automatic Control, 2009, 54, 2465-2470.	3.6	122
14	Finite-time stabilization of nonlinear impulsive dynamical systems. Nonlinear Analysis: Hybrid Systems, 2008, 2, 832-845.	2.1	115
15	Non-linear impulsive dynamical systems. Part I: Stability and dissipativity. International Journal of Control, 2001, 74, 1631-1658.	1.2	107
16	Robust stability and performance via fixed-order dynamic compensation with guaranteed cost bounds. Mathematics of Control, Signals, and Systems, 1990, 3, 139-163.	1.4	101
17	Explicit construction of quadratic lyapunov functions for the small gain, positivity, circle, and popov theorems and their application to robust stability. part II: Discrete-time theory. International Journal of Robust and Nonlinear Control, 1994, 4, 249-265.	2.1	101
18	Finite-Time Stabilization and Optimal Feedback Control. IEEE Transactions on Automatic Control, 2016, 61, 1069-1074.	3.6	96

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19	A New Neuroadaptive Control Architecture for Nonlinear Uncertain Dynamical Systems: Beyond σ - and σ -Modifications. <i>IEEE Transactions on Neural Networks</i> , 2009, 20, 1707-1723.	4.8	92
20	Robust Stability and Performance Analysis for State-Space Systems via Quadratic Lyapunov Bounds. <i>SIAM Journal on Matrix Analysis and Applications</i> , 1990, 11, 239-271.	0.7	89
21	An invariance principle for nonlinear hybrid and impulsive dynamical systems. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2003, 53, 527-550.	0.6	89
22	Adaptive control for non-negative and compartmental dynamical systems with applications to general anesthesia. <i>International Journal of Adaptive Control and Signal Processing</i> , 2003, 17, 209-235.	2.3	81
23	Finite-time stability for time-varying nonlinear dynamical systems. , 2008, , .		71
24	Adaptive control for nonlinear uncertain systems with actuator amplitude and rate saturation constraints. <i>International Journal of Adaptive Control and Signal Processing</i> , 2009, 23, 73-96.	2.3	70
25	Closed-loop control of anesthesia and mean arterial pressure using reinforcement learning. <i>Biomedical Signal Processing and Control</i> , 2015, 22, 54-64.	3.5	70
26	Neural Network Adaptive Output Feedback Control for Intensive Care Unit Sedation and Intraoperative Anesthesia. <i>IEEE Transactions on Neural Networks</i> , 2007, 18, 1049-1066.	4.8	69
27	Relevance Vector Machine Learning for Neonate Pain Intensity Assessment Using Digital Imaging. <i>IEEE Transactions on Biomedical Engineering</i> , 2010, 57, 1457-1466.	2.5	69
28	Reinforcement learning-based control of drug dosing for cancer chemotherapy treatment. <i>Mathematical Biosciences</i> , 2017, 293, 11-20.	0.9	67
29	Adaptive control architectures for mitigating sensor attacks in cyber-physical systems. <i>Cyber-Physical Systems</i> , 2016, 2, 24-52.	1.6	66
30	Extensions of mixed- \mathcal{L}_2 bounds to monotonic and odd monotonic nonlinearities using absolute stability theory. <i>International Journal of Control</i> , 1994, 60, 905-951.	1.2	65
31	Active Suspension Control to Improve Vehicle Ride and Handling. <i>Vehicle System Dynamics</i> , 1997, 28, 1-24.	2.2	63
32	Finite-time stabilization of nonlinear dynamical systems via control vector Lyapunov functions. <i>Journal of the Franklin Institute</i> , 2008, 345, 819-837.	1.9	63
33	Generalized Riccati equations for the full- and reduced-order mixed-norm standard problem. <i>Systems and Control Letters</i> , 1990, 14, 185-197.	1.3	62
34	Robust adaptive control for nonlinear uncertain systems. <i>Automatica</i> , 2003, 39, 551-556.	3.0	62
35	Replicating human expertise of mechanical ventilation waveform analysis in detecting patient-ventilator cycling asynchrony using machine learning. <i>Computers in Biology and Medicine</i> , 2018, 97, 137-144.	3.9	60
36	Resetting Virtual Absorbers for Vibration Control. <i>JVC/Journal of Vibration and Control</i> , 2000, 6, 61-83.	1.5	59

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37	Finite-time partial stability and stabilization, and optimal feedback control. Journal of the Franklin Institute, 2015, 352, 2329-2357.	1.9	59
38	Non-linear impulsive dynamical systems. Part II: Stability of feedback interconnections and optimality. International Journal of Control, 2001, 74, 1659-1677.	1.2	53
39	Finite-time semistability, Filippov systems, and consensus protocols for nonlinear dynamical networks with switching topologies. Nonlinear Analysis: Hybrid Systems, 2010, 4, 557-573.	2.1	50
40	Passivity-Based Neural Network Adaptive Output Feedback Control for Nonlinear Nonnegative Dynamical Systems. IEEE Transactions on Neural Networks, 2005, 16, 387-398.	4.8	49
41	A Lyapunov-based adaptive control framework for discrete-time non-linear systems with exogenous disturbances. International Journal of Control, 2004, 77, 250-263.	1.2	46
42	Stability and dissipativity theory for discrete-time non-negative and compartmental dynamical systems. International Journal of Control, 2003, 76, 1845-1861.	1.2	44
43	Finite-time stability of discrete autonomous systems. Automatica, 2020, 122, 109282.	3.0	44
44	Energy- and Entropy-Based Stabilization for Lossless Dynamical Systems via Hybrid Controllers. IEEE Transactions on Automatic Control, 2007, 52, 1604-1614.	3.6	43
45	A Secure Control Learning Framework for Cyber-Physical Systems Under Sensor and Actuator Attacks. IEEE Transactions on Cybernetics, 2021, 51, 4648-4660.	6.2	43
46	A robust adaptive control architecture for disturbance rejection and uncertainty suppression with transient and steady-state performance guarantees. International Journal of Adaptive Control and Signal Processing, 2012, 26, 1024-1055.	2.3	42
47	Optimal discrete-time control for non-linear cascade systems. Journal of the Franklin Institute, 1998, 335, 827-839.	1.9	41
48	Exponentially dissipative nonlinear dynamical systems: a nonlinear extension of strict positive realness. Mathematical Problems in Engineering, 2003, 2003, 25-45.	0.6	41
49	Fixed-architecture controller synthesis for systems with input-output time-varying nonlinearities. International Journal of Robust and Nonlinear Control, 1997, 7, 675-710.	2.1	40
50	Adaptive control for nonlinear compartmental dynamical systems with applications to clinical pharmacology. Systems and Control Letters, 2006, 55, 62-70.	1.3	40
51	Induced Convolution Operator Norms of Linear Dynamical Systems. Mathematics of Control, Signals, and Systems, 2000, 13, 216-239.	1.4	38
52	Vector dissipativity theory and stability of feedback interconnections for large-scale non-linear dynamical systems. International Journal of Control, 2004, 77, 907-919.	1.2	37
53	Energy-based control for hybrid port-controlled Hamiltonian systems. Automatica, 2003, 39, 1425-1435.	3.0	36
54	Limit cycle analysis of the verge and foliot clock escapement using impulsive differential equations and Poincaré maps. International Journal of Control, 2003, 76, 1685-1698.	1.2	36

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55	Generalized mixed- $\hat{1}/4$ bounds for real and complex multiple-block uncertainty with internal matrix structure. <i>International Journal of Control</i> , 1996, 64, 789-806.	1.2	32
56	From data patterns to mechanistic models in acute critical illness. <i>Journal of Critical Care</i> , 2014, 29, 604-610.	1.0	32
57	Neural Network Adaptive Control for Nonlinear Nonnegative Dynamical Systems. <i>IEEE Transactions on Neural Networks</i> , 2005, 16, 399-413.	4.8	31
58	Dissipativity Theory for Nonlinear Stochastic Dynamical Systems. <i>IEEE Transactions on Automatic Control</i> , 2017, 62, 1684-1699.	3.6	31
59	An adaptive control architecture for leader-follower multiagent systems with stochastic disturbances and sensor and actuator attacks. <i>International Journal of Control</i> , 2019, 92, 2561-2570.	1.2	31
60	On stable full-order and reduced-order LQG controllers. <i>Optimal Control Applications and Methods</i> , 1991, 12, 163-172.	1.3	30
61	Consensus protocols for networked multi-agent systems with a uniformly continuous quasi-resetting architecture. <i>International Journal of Control</i> , 2014, 87, 1716-1727.	1.2	30
62	Thermodynamics: The Unique Universal Science. <i>Entropy</i> , 2017, 19, 621.	1.1	30
63	2 optimal semistable stabilisation for linear discrete-time dynamical systems with applications to network consensus. <i>International Journal of Control</i> , 2009, 82, 456-469.	1.2	29
64	A popov criterion for uncertain linear multivariable systems. <i>Automatica</i> , 1995, 31, 1061-1064.	3.0	27
65	Neuroadaptive Output Feedback Control for Automated Anesthesia With Noisy EEG Measurements. <i>IEEE Transactions on Control Systems Technology</i> , 2011, 19, 311-326.	3.2	27
66	AI in the ICU: In the intensive care unit, artificial intelligence can keep watch. <i>IEEE Spectrum</i> , 2018, 55, 31-35.	0.5	27
67	Stochastic finite-time partial stability, partial-state stabilization, and finite-time optimal feedback control. <i>Mathematics of Control, Signals, and Systems</i> , 2017, 29, 1.	1.4	26
68	Direct adaptive control for non-linear uncertain systems with exogenous disturbances. <i>International Journal of Adaptive Control and Signal Processing</i> , 2002, 16, 151-172.	2.3	25
69	Agitation and pain assessment using digital imaging. , 2009, 2009, 2176-9.		25
70	On robust control algorithms for nonlinear network consensus protocols. <i>International Journal of Robust and Nonlinear Control</i> , 2010, 20, 269-284.	2.1	25
71	optimal semistable control for linear dynamical systems: An LMI approach. <i>Journal of the Franklin Institute</i> , 2011, 348, 2898-2910.	1.9	25
72	Generalized Lyapunov and invariant set theorems for nonlinear dynamical systems. <i>Systems and Control Letters</i> , 1999, 38, 289-295.	1.3	24

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73	Mitigating the Effects of Sensor Uncertainties in Networked Multi-Agent Systems. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2017, 139, .	0.9	24
74	Energy-based feedback control for stochastic port-controlled Hamiltonian systems. <i>Automatica</i> , 2018, 97, 134-142.	3.0	24
75	Optimal adaptive control of drug dosing using integral reinforcement learning. <i>Mathematical Biosciences</i> , 2019, 309, 131-142.	0.9	24
76	Applications of Popov controller synthesis to benchmark problems with real parameter uncertainty. <i>Journal of Guidance, Control, and Dynamics</i> , 1994, 17, 759-768.	1.6	22
77	Guaranteed domains of attraction for multivariable Lur $\tilde{\infty}$ systems via open Lyapunov surfaces. <i>International Journal of Robust and Nonlinear Control</i> , 1997, 7, 935-949.	2.1	22
78	Neural network hybrid adaptive control for nonlinear uncertain impulsive dynamical systems. <i>Nonlinear Analysis: Hybrid Systems</i> , 2008, 2, 862-874.	2.1	21
79	An adaptive learning and control architecture for mitigating sensor and actuator attacks in connected autonomous vehicle platoons. <i>International Journal of Adaptive Control and Signal Processing</i> , 2019, 33, 1788-1802.	2.3	21
80	Adaptive Control of Mamillary Drug Delivery Systems with Actuator Amplitude Constraints and System Time Delays. <i>European Journal of Control</i> , 2005, 11, 586-600.	1.6	20
81	Finite-Time Semistability Theory with Applications to Consensus Protocols in Dynamical Networks. <i>Proceedings of the American Control Conference</i> , 2007, , .	0.0	20
82	Complexity, robustness, self-organization, swarms, and system thermodynamics. <i>Nonlinear Analysis: Real World Applications</i> , 2009, 10, 531-543.	0.9	20
83	Multistability, bifurcations, and biological neural networks: A synaptic drive firing model for cerebral cortex transition in the induction of general anesthesia. <i>Nonlinear Analysis: Hybrid Systems</i> , 2011, 5, 554-572.	2.1	20
84	Clinical Decision Support and Closed-Loop Control for Cardiopulmonary Management and Intensive Care Unit Sedation Using Expert Systems. <i>IEEE Transactions on Control Systems Technology</i> , 2012, 20, 1343-1350.	3.2	20
85	Hybrid nonnegative and computational dynamical systems. <i>Mathematical Problems in Engineering</i> , 2002, 8, 493-515.	0.6	19
86	Control vector Lyapunov functions for large-scale impulsive dynamical systems. <i>Nonlinear Analysis: Hybrid Systems</i> , 2007, 1, 223-243.	2.1	19
87	Closed-loop control for intensive care unit sedation. <i>Bailliere's Best Practice and Research in Clinical Anaesthesiology</i> , 2009, 23, 95-114.	1.7	19
88	A dissipative dynamical systems approach to stability analysis of time delay systems. <i>International Journal of Robust and Nonlinear Control</i> , 2005, 15, 25-33.	2.1	18
89	H_{∞}^2 optimal semistable stabilization for linear discrete-time dynamical systems with applications to network consensus. , 2007, , .		18
90	On system state equipartitioning and semistability in network dynamical systems with arbitrary time-delays. <i>Systems and Control Letters</i> , 2008, 57, 670-679.	1.3	18

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91	Semistability theory for differential inclusions with applications to consensus problems in dynamical networks with switching topology. , 2008, , .		18
92	PROBABILITY-ONE HOMOTOPY ALGORITHMS FOR ROBUST CONTROLLER SYNTHESIS WITH FIXED-STRUCTURE MULTIPLIERS. International Journal of Robust and Nonlinear Control, 1997, 7, 165-185.	2.1	17
93	Thermodynamic modeling, energy equipartition, and nonconservation of entropy for discrete-time dynamical systems. Advances in Difference Equations, 2005, 2005, 248040.	3.5	17
94	Output feedback adaptive stabilization and command following for minimum phase dynamical systems with unmatched uncertainties and disturbances. International Journal of Control, 2012, 85, 706-721.	1.2	17
95	Model Predictive Control for a Multicompartment Respiratory System. IEEE Transactions on Control Systems Technology, 2013, 21, 1988-1995.	3.2	17
96	On the gap between and entropy performance measures in control design. Systems and Control Letters, 1990, 14, 113-120.	1.3	16
97	Robust nonlinear feedback control for uncertain linear systems with nonquadratic performance criteria. Systems and Control Letters, 1998, 33, 327-338.	1.3	16
98	Pressure- and Work-Limited Neuroadaptive Control for Mechanical Ventilation of Critical Care Patients. IEEE Transactions on Neural Networks, 2011, 22, 614-626.	4.8	16
99	Nonlinear nonquadratic optimal and inverse optimal control for stochastic dynamical systems. International Journal of Robust and Nonlinear Control, 2017, 27, 4723-4751.	2.1	16
100	Discrete-time extensions of mixed $\mathcal{H}_2/\mathcal{H}_\infty$ bounds to monotonic and odd monotonic nonlinearities. International Journal of Control, 1995, 61, 423-441.	1.2	15
101	Clinical Decision Support and Closed-Loop Control for Intensive Care Unit Sedation. Asian Journal of Control, 2013, 15, 317-339.	1.9	15
102	Human Brain Networks: Spiking Neuron Models, Multistability, Synchronization, Thermodynamics, Maximum Entropy Production, and Anesthetic Cascade Mechanisms. Entropy, 2014, 16, 3939-4003.	1.1	15
103	A Stochastic Mean Field Model for an Excitatory and Inhibitory Synaptic Drive Cortical Neuronal Network. IEEE Transactions on Neural Networks and Learning Systems, 2014, 25, 751-763.	7.2	15
104	Energy dissipating hybrid control for impulsive dynamical systems. Nonlinear Analysis: Theory, Methods & Applications, 2008, 69, 3232-3248.	0.6	14
105	Limit cycle stability analysis and adaptive control of a multi-compartment model for a pressure-limited respirator and lung mechanics system. International Journal of Control, 2010, 83, 940-955.	1.2	14
106	Synchronization of biological neural network systems with stochastic perturbations and time delays. Journal of the Franklin Institute, 2014, 351, 1205-1225.	1.9	14
107	A general multicompartment lung mechanics model with nonlinear resistance and compliance respiratory parameters. , 2014, , .		14
108	Partial state stabilization and optimal feedback control. International Journal of Robust and Nonlinear Control, 2016, 26, 1026-1050.	2.1	14

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109	Improving transient performance of discrete-time model reference adaptive control architectures. <i>International Journal of Adaptive Control and Signal Processing</i> , 2020, 34, 901-918.	2.3	14
110	Steady-state kalman filtering with an H_{∞} error bound. , 1989, , .		13
111	Discrete-time mixed-norm H_2/H_{∞} controller synthesis. <i>Optimal Control Applications and Methods</i> , 1996, 17, 107-121.	1.3	13
112	Optimal disturbance rejection control for nonlinear impulsive dynamical systems. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2005, 62, 1466-1489.	0.6	13
113	A new neuroadaptive control architecture for nonlinear uncertain dynamical systems: Beyond σ - and e -modifications. , 2008, , .		13
114	Optimal Determination of Respiratory Airflow Patterns Using a Nonlinear Multicompartment Model for a Lung Mechanics System. <i>Computational and Mathematical Methods in Medicine</i> , 2012, 2012, 1-11.	0.7	13
115	A pilot study evaluating adaptive closed-loop fluid resuscitation during states of absolute and relative hypovolemia in dogs. <i>Journal of Veterinary Emergency and Critical Care</i> , 2018, 28, 436-446.	0.4	13
116	An output-feedback adaptive control architecture for mitigating actuator attacks in cyber-physical systems. <i>International Journal of Adaptive Control and Signal Processing</i> , 2019, 33, 943-955.	2.3	13
117	Dissipative H_2/h_{∞} controller synthesis. , 1993, , .		12
118	Discrete-time nonlinear analysis and feedback control with nonquadratic performance criteria. <i>Journal of the Franklin Institute</i> , 1996, 333, 849-860.	1.9	12
119	Optimal fixed-structure control for linear non-negative dynamical systems. <i>International Journal of Robust and Nonlinear Control</i> , 2004, 14, 487-511.	2.1	12
120	Continuous and Hybrid Distributed Control for Multiagent Coordination: Consensus, Flocking, and Cyclic Pursuit. <i>Proceedings of the American Control Conference</i> , 2007, , .	0.0	12
121	Hybrid decentralized maximum entropy control for large-scale dynamical systems. <i>Nonlinear Analysis: Hybrid Systems</i> , 2007, 1, 244-263.	2.1	12
122	Semistability for time-varying discontinuous dynamical systems with application to agreement problems in switching networks. , 2008, , .		12
123	Thermodynamics-Based Control of Network Systems. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2013, 135, .	0.9	12
124	Output Feedback Adaptive Control with Low-Frequency Learning and Fast Adaptation. <i>Journal of Guidance, Control, and Dynamics</i> , 2016, 39, 16-31.	1.6	12
125	A nonovershooting tracking controller for simultaneous infusion of anesthetics and analgesics. <i>Biomedical Signal Processing and Control</i> , 2019, 49, 375-387.	3.5	12
126	Stochastic Semistability for Nonlinear Dynamical Systems With Application to Consensus on Networks With Communication Uncertainty. <i>IEEE Transactions on Automatic Control</i> , 2020, 65, 2826-2841.	3.6	12

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127	An adaptive control architecture for cyber-physical system security in the face of sensor and actuator attacks and exogenous stochastic disturbances. <i>Cyber-Physical Systems</i> , 2018, 4, 39-56.	1.6	12
128	Structured singular value controller synthesis using constant D-scales without D-K iteration. <i>International Journal of Control</i> , 1996, 63, 813-830.	1.2	11
129	Robust nonlinear-nonquadratic feedback control via parameterdependent Lyapunov functions. <i>International Journal of Control</i> , 1997, 66, 843-861.	1.2	11
130	H ∞ optimal semistable control for linear dynamical systems: An LMI approach. , 2007, , .		11
131	Uniform semistability for time-varying dynamical systems and network consensus with time-dependent communication links. , 2009, , .		11
132	Semistability of switched dynamical systems, Part I: Linear system theory. <i>Nonlinear Analysis: Hybrid Systems</i> , 2009, 3, 343-353.	2.1	11
133	Neuroadaptive output feedback control for nonlinear nonnegative dynamical systems with actuator amplitude and integral constraints. <i>International Journal of Adaptive Control and Signal Processing</i> , 2011, 25, 483-501.	2.3	11
134	Temporal Asymmetry, Entropic Irreversibility, and Finite-Time Thermodynamics: From Parmenidesâ€™ Einstein Time-Reversal Symmetry to the Heraclitan Entropic Arrow of Time. <i>Entropy</i> , 2012, 14, 407-455.	1.1	11
135	Adaptive Control for Mitigating Sensor and Actuator Attacks in Connected Autonomous Vehicle Platoons. , 2018, , .		11
136	Adaptive Control for Multiagent Systems with Sensorâ€™Actuator Attacks and Stochastic Disturbances. <i>Journal of Guidance, Control, and Dynamics</i> , 2020, 43, 15-29.	1.6	11
137	Fixed-order sampled-data estimation. <i>International Journal of Control</i> , 1992, 55, 129-139.	1.2	10
138	Stabilization of linear systems with simultaneous state, actuation, and measurement delays. <i>International Journal of Control</i> , 1999, 72, 1619-1629.	1.2	10
139	Inverse optimal adaptive control for non-linear uncertain systems with exogenous disturbances. <i>International Journal of Adaptive Control and Signal Processing</i> , 2000, 14, 1-38.	2.3	10
140	Stability margins of nonlinear optimal regulators with nonquadratic performance criteria involving cross-weighting terms. <i>Systems and Control Letters</i> , 2000, 39, 71-78.	1.3	10
141	Hybrid adaptive control for non-linear uncertain impulsive dynamical systems. <i>International Journal of Adaptive Control and Signal Processing</i> , 2005, 19, 445-469.	2.3	10
142	An implicit small gain condition and an upper bound for the real structured singular value. <i>Systems and Control Letters</i> , 1997, 29, 197-205.	1.3	9
143	Vector dissipativity theory for large-scale impulsive dynamical systems. <i>Mathematical Problems in Engineering</i> , 2004, 2004, 225-262.	0.6	9
144	Optimal control for linear and nonlinear semistabilization. <i>Journal of the Franklin Institute</i> , 2015, 352, 851-881.	1.9	9

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145	Stochastic Thermodynamics: A Dynamical Systems Approach. <i>Entropy</i> , 2017, 19, 693.	1.1	9
146	Dissipativity theory for discrete-time nonlinear stochastic dynamical systems. <i>International Journal of Robust and Nonlinear Control</i> , 2022, 32, 6293-6314.	2.1	9
147	Lyapunov theorems for stability and semistability of discrete-time stochastic systems. <i>Automatica</i> , 2022, 142, 110393.	3.0	9
148	Nonlinear fixed-order dynamic compensation for passive systems. <i>International Journal of Robust and Nonlinear Control</i> , 1998, 8, 349-365.	2.1	8
149	Using sensor-fusion and machine-learning algorithms to assess acute pain in non-verbal infants: a study protocol. <i>BMJ Open</i> , 2021, 11, e039292.	0.8	8
150	Asymptotic and Finite-Time Semistability for Nonlinear Discrete-Time Systems With Application to Network Consensus. <i>IEEE Transactions on Automatic Control</i> , 2023, 68, 766-781.	3.6	8
151	Nonlinear controllers for nonlinear systems with input nonlinearities. <i>Journal of the Franklin Institute</i> , 1999, 336, 649-664.	1.9	7
152	Semistability of switched linear systems. , 2009, , .		7
153	Adaptive disturbance rejection control for compartmental systems with application to intraoperative anesthesia influenced by hemorrhage and hemodilution effects. <i>International Journal of Adaptive Control and Signal Processing</i> , 2009, 23, 1-29.	2.3	7
154	Optimal drug dosing control for intensive care unit sedation by using a hybrid deterministic-stochastic pharmacokinetic and pharmacodynamic model. <i>Optimal Control Applications and Methods</i> , 2013, 34, 547-561.	1.3	7
155	Dissipative differential inclusions, set-valued energy storage and supply rate maps, and stability of discontinuous feedback systems. <i>Nonlinear Analysis: Hybrid Systems</i> , 2013, 8, 83-108.	2.1	7
156	Adaptive Estimation Using Multiagent Network Identifiers With Undirected and Directed Graph Topologies. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2014, 136, .	0.9	7
157	A Secure Control Learning Framework for Cyber-Physical Systems under Sensor Attacks. , 2019, , .		7
158	Closed-Loop Control for Fluid Resuscitation: Recent Advances and Future Challenges. <i>Frontiers in Veterinary Science</i> , 2021, 8, 642440.	0.9	7
159	Lyapunov Theorems for Semistability of Discrete-Time Stochastic Systems with Application to Network Consensus with Random Communication Noise. , 2021, , .		7
160	A Maximum Entropy-Type Lyapunov Function for Robust Stability and Performance Analysis. , 1992, , .		7
161	Nonlinear nonquadratic optimal and inverse optimal control for discrete-time stochastic dynamical systems. <i>International Journal of Robust and Nonlinear Control</i> , 2022, 32, 1487-1509.	2.1	7
162	Finite Time Stability of Discrete-Time Stochastic Dynamical Systems. , 2021, , .		7

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163	Direct adaptive control for nonlinear matrix second-order dynamical systems with state-dependent uncertainty. <i>Systems and Control Letters</i> , 2003, 48, 53-67.	1.3	6
164	Finite-time stabilization of nonlinear impulsive dynamical systems. , 2007, , .		6
165	Controller synthesis with guaranteed closed-loop phase constraints. <i>Automatica</i> , 2008, 44, 3211-3214.	3.0	6
166	A compressive sensing approach for glioma margin delineation using mass spectrometry. , 2011, 2011, 5682-5.		6
167	A Unification between Dynamical System Theory and Thermodynamics Involving an Energy, Mass, and Entropy State Space Formalism. <i>Entropy</i> , 2013, 15, 1821-1846.	1.1	6
168	Formation Control Protocols for Nonlinear Dynamical Systems Via Hybrid Stabilization of Sets. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2014, 136, .	0.9	6
169	Mitigating the effects of sensor uncertainties in networked multiagent systems. , 2016, , .		6
170	Optimal singular control for nonlinear semistabilisation. <i>International Journal of Control</i> , 2016, 89, 1222-1239.	1.2	6
171	Condensed matter physics, hybrid energy and entropy principles, and the hybrid first and second laws of thermodynamics. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2020, 83, 105096.	1.7	6
172	Finite-Time Stabilization and Optimal Feedback Control for Nonlinear Discrete-Time Systems. <i>IEEE Transactions on Automatic Control</i> , 2023, 68, 1685-1691.	3.6	6
173	Optimal nonlinear disturbance rejection control for nonlinear cascade systems. <i>International Journal of Control</i> , 1997, 68, 997-1018.	1.2	5
174	A unification between nonlinear-nonquadratic optimal control and integrator backstepping. <i>International Journal of Robust and Nonlinear Control</i> , 1998, 8, 879-906.	2.1	5
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