

Wassim M Haddad

List of Publications by Year in descending order

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314
papers

8,193
citations

81434

41
h-index

100535

70
g-index

318
all docs

318
docs citations

318
times ranked

4480
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Dissipativity, inverse optimal control, and stability margins for nonlinear discrete-time stochastic feedback regulators. <i>International Journal of Control</i> , 2023, 96, 2133-2145.	1.2	3
4	Fixed time stability and optimal stabilisation of discrete autonomous systems. <i>International Journal of Control</i> , 2023, 96, 2341-2355.	1.2	5
5	Mixed norm H_2/H_∞ and entropy covariance control: a convex optimisation approach. <i>International Journal of Control</i> , 2022, 95, 985-995.	1.2	2
6	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
7	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
8	Lyapunov theorems for stability and semistability of discrete-time stochastic systems. <i>Automatica</i> , 2022, 142, 110393.	3.0	9
9	A Secure Control Learning Framework for Cyber-Physical Systems Under Sensor and Actuator Attacks. <i>IEEE Transactions on Cybernetics</i> , 2021, 51, 4648-4660.	6.2	43
10	A Hybrid Thermodynamic Control Protocol for Semistability and Consensus of Network Systems With Intermittent Information. <i>IEEE Transactions on Automatic Control</i> , 2021, 66, 2754-2761.	3.6	5
11	The Role of Systems Biology, Neuroscience, and Thermodynamics in Network Control and Learning. <i>Studies in Systems, Decision and Control</i> , 2021, , 763-817.	0.8	0
12	On finite-time stability and stabilization of nonlinear hybrid dynamical systems. <i>AIMS Mathematics</i> , 2021, 6, 5535-5562.	0.7	5
13	Closed-Loop Control for Fluid Resuscitation: Recent Advances and Future Challenges. <i>Frontiers in Veterinary Science</i> , 2021, 8, 642440.	0.9	7
14	Dissipativity Theory for Discrete-Time Nonlinear Stochastic Dynamical Systems, Part I: Input-Output and State Properties. , 2021, , .		3
15	Lyapunov Theorems for Semistability of Discrete-Time Stochastic Systems with Application to Network Consensus with Random Communication Noise. , 2021, , .		7
16	Asymptotic and Finite Time Semistability for Nonlinear Discrete-Time Systems. , 2021, , .		5
17	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
18	Finite-Time Stabilization and Optimal Feedback Control for Nonlinear Discrete-Time Systems. , 2021, , .		2

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19	A Thermodynamic-Based Control Architecture for Semistability and Consensus of Discrete-Time Nonlinear Network Systems. , 2021, , .		0
20	Polynomial and Multilinear Performance Criteria for Discrete-Time Nonlinear Stochastic Dynamical Systems. , 2021, , .		1
21	Finite Time Stability of Discrete-Time Stochastic Dynamical Systems. , 2021, , .		7
22	Stochastic Semistability for Nonlinear Dynamical Systems With Application to Consensus on Networks With Communication Uncertainty. IEEE Transactions on Automatic Control, 2020, 65, 2826-2841.	3.6	12
23	Condensed matter physics, hybrid energy and entropy principles, and the hybrid first and second laws of thermodynamics. Communications in Nonlinear Science and Numerical Simulation, 2020, 83, 105096.	1.7	6
24	Validation of an automated system for detecting ineffective triggering asynchronies during mechanical ventilation: a retrospective study. Journal of Clinical Monitoring and Computing, 2020, 34, 1233-1237.	0.7	5
25	Adaptive Control for Multiagent Systems with Sensor-Actuator Attacks and Stochastic Disturbances. Journal of Guidance, Control, and Dynamics, 2020, 43, 15-29.	1.6	11
26	Finite-time stability of discrete autonomous systems. Automatica, 2020, 122, 109282.	3.0	44
27	Finite-Time Stability of Discrete Autonomous Systems. , 2020, , .		2
28	A Distributed Output Feedback Adaptive Controller for Leader-Follower Multiagent Systems with Stochastic Disturbances and Sensor-Actuator Attacks. , 2020, , .		1
29	Mixed Norm $\hat{\alpha}_2$ and Entropy Covariance Control: A Convex Optimization Approach. , 2020, , .		0
30	Condensed Matter Physics, the Hybrid Second Law of Thermodynamics, and Hybrid Consensus Protocols for Network Systems. , 2020, , .		0
31	Reinforcement learning-based control of drug dosing with applications to anesthesia and cancer therapy. , 2020, , 251-297.		5
32	Improving transient performance of discrete-time model reference adaptive control architectures. International Journal of Adaptive Control and Signal Processing, 2020, 34, 901-918.	2.3	14
33	Universal Feedback Controllers and Inverse Optimality for Nonlinear Stochastic Systems. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2020, 142, .	0.9	4
34	Implications of dissipativity, inverse optimal control, and stability margins for nonlinear stochastic feedback regulators. International Journal of Robust and Nonlinear Control, 2019, 29, 5499-5519.	2.1	5
35	A Fast Parameter Identification Framework for Personalized Pharmacokinetics. Scientific Reports, 2019, 9, 14143.	1.6	5
36	An adaptive learning and control architecture for mitigating sensor and actuator attacks in connected autonomous vehicle platoons. International Journal of Adaptive Control and Signal Processing, 2019, 33, 1788-1802.	2.3	21

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37	An outputâ€feedback adaptive control architecture for mitigating actuator attacks in cyberâ€physical systems. <i>International Journal of Adaptive Control and Signal Processing</i> , 2019, 33, 943-955.	2.3	13
38	Optimal adaptive control of drug dosing using integral reinforcement learning. <i>Mathematical Biosciences</i> , 2019, 309, 131-142.	0.9	24
39	Universal Feedback Controllers and Inverse Optimality for Nonlinear Stochastic Systems. , 2019, , .		1
40	A Secure Control Learning Framework for Cyber-Physical Systems under Sensor Attacks. , 2019, , .		7
41	A Computational Study of a Spatially Continuum Mean Field Model Capturing Loss of Consciousness and the Emergence of Alpha and Gamma Rhythmic Activity in the Neocortex. , 2019, , .		0
42	Finite Time Semistability and Consensus in Networks with Communication Uncertainty. , 2019, , .		0
43	Partial Dissipativity Theory and Partial Stability of Feedback Interconnections for Nonlinear Dynamical Systems. , 2019, , .		0
44	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
45	Stochastic differential games and inverse optimal control and stopper policies. <i>International Journal of Control</i> , 2019, 92, 1692-1706.	1.2	0
46	An adaptive control architecture for leaderâ€follower multiagent systems with stochastic disturbances and sensor and actuator attacks. <i>International Journal of Control</i> , 2019, 92, 2561-2570.	1.2	31
47	Dynamic Dissipativity Theory for Stability of Time-Delay Systems. <i>Advances in Delays and Dynamics</i> , 2019, , 33-47.	0.4	0
48	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
49	Abnormal Optimal Trajectory Planning of Multi-Body Systems in the Presence of Holonomic and Nonholonomic Constraints. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2018, 89, 51-67.	2.0	3
50	Adaptive Control for Mitigating Sensor and Actuator Attacks in Connected Autonomous Vehicle Platoons. , 2018, , .		11
51	Robust Adaptive Control for Leader-Follower Multiagent Systems with Stochastic Disturbances, System Uncertainty, and Sensor-Actuator Attacks. , 2018, , .		2
52	A Nonovershooting Controller with Integral Action for Multi-input Multi-output Drug Dosing Control. <i>IFAC-PapersOnLine</i> , 2018, 51, 60-65.	0.5	1
53	A Computational Study of a Spatiotemporal Mean Field Model Capturing the Emergence of Alpha and Gamma Rhythmic Activity in the Neocortex. <i>Symmetry</i> , 2018, 10, 568.	1.1	1
54	Energy-Based Feedback Control for Stochastic Dynamical Systems. , 2018, , .		0

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55	AI in the ICU: In the intensive care unit, artificial intelligence can keep watch. IEEE Spectrum, 2018, 55, 31-35.	0.5	27
56	A Fixed-Architecture Framework for Stochastic Nonlinear Controller Synthesis. , 2018, , .		1
57	A pilot study evaluating adaptive closed-loop fluid resuscitation during states of absolute and relative hypovolemia in dogs. Journal of Veterinary Emergency and Critical Care, 2018, 28, 436-446.	0.4	13
58	Energy-based feedback control for stochastic port-controlled Hamiltonian systems. Automatica, 2018, 97, 134-142.	3.0	24
59	A Conservation-Based Distributed Control Architecture for Network Consensus with Stochastic Communication Uncertainty. , 2018, , .		3
60	An Adaptive Control Architecture for Leader-Follower Multiagent Systems with Stochastic Disturbances and Sensor and Actuator Attacks. , 2018, , .		5
61	An adaptive control architecture for cyber-physical system security in the face of sensor and actuator attacks and exogenous stochastic disturbances. Cyber-Physical Systems, 2018, 4, 39-56.	1.6	12
62	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
63	Mitigating the Effects of Sensor Uncertainties in Networked Multi-Agent Systems. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2017, 139, .	0.9	24
64	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
65	Approximate Consensus of Multiagent Systems With Inaccurate Sensor Measurements. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2017, 139, .	0.9	5
66	Stochastic finite-time partial stability, partial-state stabilization, and finite-time optimal feedback control. Mathematics of Control, Signals, and Systems, 2017, 29, 1.	1.4	26
67	Partial-State Stabilization and Optimal Feedback Control for Stochastic Dynamical Systems. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2017, 139, .	0.9	4
68	Reinforcement learning-based control of drug dosing for cancer chemotherapy treatment. Mathematical Biosciences, 2017, 293, 11-20.	0.9	67
69	Dissipativity Theory for Nonlinear Stochastic Dynamical Systems. IEEE Transactions on Automatic Control, 2017, 62, 1684-1699.	3.6	31
70	Reinforcement learning-based control for combined infusion of sedatives and analgesics. , 2017, , .		5
71	An adaptive control architecture for cyber-physical system security in the face of sensor and actuator attacks and exogenous stochastic disturbances. , 2017, , .		5
72	Thermodynamics: The Unique Universal Science. Entropy, 2017, 19, 621.	1.1	30

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73	Stochastic Thermodynamics: A Dynamical Systems Approach. Entropy, 2017, 19, 693.	1.1	9
74	Partial-state stabilization and optimal feedback control. International Journal of Robust and Nonlinear Control, 2016, 26, 1026-1050.	2.1	14
75	An adaptive sliding mode observer for linear systems under malicious attack. , 2016, , .		5
76	Lyapunov and converse Lyapunov theorems for stochastic semistability. , 2016, , .		1
77	Finite-time partial stability for stochastic dynamical systems. , 2016, , .		0
78	Lyapunov and converse Lyapunov theorems for stochastic semistability. Systems and Control Letters, 2016, 97, 83-90.	1.3	5
79	Nonlinear-nonquadratic optimal and inverse optimal control for stochastic dynamical systems. , 2016, , .		1
80	Adaptive control architectures for mitigating sensor attacks in cyber-physical systems. Cyber-Physical Systems, 2016, 2, 24-52.	1.6	66
81	Mitigating the effects of sensor uncertainties in networked multiagent systems. , 2016, , .		6
82	Partial-state stabilization and optimal feedback control for stochastic dynamical systems. , 2016, , .		1
83	Output Feedback Adaptive Control with Low-Frequency Learning and Fast Adaptation. Journal of Guidance, Control, and Dynamics, 2016, 39, 16-31.	1.6	12
84	Optimal singular control for nonlinear semistabilisation. International Journal of Control, 2016, 89, 1222-1239.	1.2	6
85	Finite-Time Stabilization and Optimal Feedback Control. IEEE Transactions on Automatic Control, 2016, 61, 1069-1074.	3.6	96
86	Adaptive sliding mode control for a general nonlinear multicompartment lung model with input pressure and rate saturation constraints. International Journal of Robust and Nonlinear Control, 2016, 26, 719-736.	2.1	3
87	Dissipativity theory for nonlinear stochastic dynamical systems: Input-output and state properties. , 2016, , .		1
88	Optimal Control of Midazolam Infusion for Post Operative Patients in Intensive Care Units. Asian Journal of Control, 2015, 17, 675-686.	1.9	2
89	A Universal Feedback Controller for Discontinuous Dynamical Systems Using Nonsmooth Control Lyapunov Functions. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2015, 137, .	0.9	4
90	Partial synchronization of biological neural networks and the anesthetic cascade. , 2015, , .		0

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91	A Mechanistic Neural Field Theory of How Anesthesia Suppresses Consciousness: Synaptic Drive Dynamics, Bifurcations, Attractors, and Partial State Equipartitioning. Journal of Mathematical Neuroscience, 2015, 5, 20.	2.4	2
92	Optimal singular control for nonlinear semistabilization. , 2015, , .		1
93	Finite-time partial stability theory and fractional Lyapunov differential inequalities. , 2015, , .		2
94	Optimal Determination of Respiratory Airflow Patterns for a General Multicompartment Lung Mechanics System With Nonlinear Resistance and Compliance Parameters. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2015, 137, .	0.9	1
95	Closed-loop control of anesthesia and mean arterial pressure using reinforcement learning. Biomedical Signal Processing and Control, 2015, 22, 54-64.	3.5	70
96	Finite-time partial stability and stabilization, and optimal feedback control. Journal of the Franklin Institute, 2015, 352, 2329-2357.	1.9	59
97	Optimal control for linear and nonlinear semistabilization. Journal of the Franklin Institute, 2015, 352, 851-881.	1.9	9
98	Optimal control for linear and nonlinear semistabilization. , 2014, , .		2
99	Human Brain Networks: Spiking Neuron Models, Multistability, Synchronization, Thermodynamics, Maximum Entropy Production, and Anesthetic Cascade Mechanisms. Entropy, 2014, 16, 3939-4003.	1.1	15
100	Closed-loop control of anesthesia and mean arterial pressure using reinforcement learning. , 2014, , .		2
101	Adaptive sliding mode control for a general nonlinear multicompartment lung model with input pressure and rate saturation constraints. , 2014, , .		0
102	Partial-state stabilization and optimal feedback control. , 2014, , .		2
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	Predictive tracking control for a multi-compartment respiratory system with amplitude and rate input constraints. International Journal of Control, 2014, 87, 1141-1152.	1.2	0
105	Formation Control Protocols for Nonlinear Dynamical Systems Via Hybrid Stabilization of Sets. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2014, 136, .	0.9	6
106	Adaptive Estimation Using Multiagent Network Identifiers With Undirected and Directed Graph Topologies. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2014, 136, .	0.9	7
107	From data patterns to mechanistic models in acute critical illness. Journal of Critical Care, 2014, 29, 604-610.	1.0	32
108	Synchronization of biological neural network systems with stochastic perturbations and time delays. Journal of the Franklin Institute, 2014, 351, 1205-1225.	1.9	14

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109	Direct adaptive disturbance rejection control for sedation and analgesia. , 2014, , .		2
110	A general multicompartment lung mechanics model with nonlinear resistance and compliance respiratory parameters. , 2014, , .		14
111	Output feedback sliding mode control for a linear multi-compartment lung mechanics system. International Journal of Control, 2014, , 1-12.	1.2	4
112	Consensus protocols for networked multi-agent systems with a uniformly continuous quasi-resetting architecture. International Journal of Control, 2014, 87, 1716-1727.	1.2	30
113	Set-valued protocols for almost consensus of multiagent systems with uncertain interagent communication. , 2014, , .		5
114	Optimal drug dosing control for intensive care unit sedation by using a hybrid deterministicâ€”stochastic pharmacokinetic and pharmacodynamic model. Optimal Control Applications and Methods, 2013, 34, 547-561.	1.3	7
115	Model Predictive Control for a Multicompartment Respiratory System. IEEE Transactions on Control Systems Technology, 2013, 21, 1988-1995.	3.2	17
116	Output-feedback sliding mode control for a linear multicompartment lung mechanics system. , 2013, , .		2
117	Circular formation control protocols for dynamic unicycles via hybrid stabilization of sets. , 2013, , .		0
118	Dissipative differential inclusions, set-valued energy storage and supply rate maps, and stability of discontinuous feedback systems. Nonlinear Analysis: Hybrid Systems, 2013, 8, 83-108.	2.1	7
119	Low-Frequency Learning and Fast Adaptation in Model Reference Adaptive Control. IEEE Transactions on Automatic Control, 2013, 58, 1080-1085.	3.6	185
120	Thermodynamics-Based Control of Network Systems. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2013, 135, .	0.9	12
121	Low-frequency learning and fast adaptation in model reference adaptive control for safety-critical systems. , 2013, , .		3
122	A Unification between Dynamical System Theory and Thermodynamics Involving an Energy, Mass, and Entropy State Space Formalism. Entropy, 2013, 15, 1821-1846.	1.1	6
123	Semistabilization, feedback dissipativity, system thermodynamics, and limits of performance in feedback control. , 2013, , .		2
124	Clinical Decision Support and Closedâ€”Loop Control for Intensive Care Unit Sedation. Asian Journal of Control, 2013, 15, 317-339.	1.9	15
125	Flocking and rendezvous control protocols for nonlinear dynamical systems via hybrid stabilization of sets. , 2013, , .		4
126	Adaptive estimation using multiagent network identifiers with undirected and directed graph topologies. , 2013, , .		0

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127	Consensus protocols for networked multiagent systems with a uniformly continuous quasi-resetting architecture. , 2013, , .		4
128	Singular linear-quadratic control for semistabilization. , 2013, , .		0
129	Consensus control protocols for nonlinear dynamical systems via hybrid stabilization of sets. , 2013, , .		4
130	On the equivalence between dissipativity and optimality of nonlinear controllers for discontinuous dynamical systems. , 2012, , .		1
131	Dissipative differential inclusions, set-valued energy storage and supply rate maps, and discontinuous dynamical systems. , 2012, , .		5
132	Poincaré recurrence and output reversibility in linear dynamical systems. , 2012, , .		1
133	Model predictive control for a multi-compartment respiratory system. , 2012, , .		2
134	Synchronization of biological neural network systems with stochastic perturbations and time delays. , 2012, , .		0
135	A robust adaptive control architecture with L_2 transient and steady-state performance guarantees. , 2012, , .		0
136	Thermodynamics-based network systems control by thermal analogy. , 2012, , .		1
137	Optimal Determination of Respiratory Airflow Patterns Using a Nonlinear Multicompartment Model for a Lung Mechanics System. Computational and Mathematical Methods in Medicine, 2012, 2012, 1-11.	0.7	13
138	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
139	Clinical Decision Support and Closed-Loop Control for Cardiopulmonary Management and Intensive Care Unit Sedation Using Expert Systems. IEEE Transactions on Control Systems Technology, 2012, 20, 1343-1350.	3.2	20
140	Extended Kalman-Yakubovich-Popov conditions and stability of feedback interconnections for dissipative discontinuous dynamical systems. , 2012, , .		2
141	Temporal Asymmetry, Entropic Irreversibility, and Finite-Time Thermodynamics: From Parmenides' Einstein Time-Reversal Symmetry to the Heraclitan Entropic Arrow of Time. Entropy, 2012, 14, 407-455.	1.1	11
142	A robust adaptive control architecture for disturbance rejection and uncertainty suppression with L_2 transient and steady-state performance guarantees. International Journal of Adaptive Control and Signal Processing, 2012, 26, 1024-1055.	2.3	42
143	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
144	Output feedback adaptive stabilization and command following for minimum phase dynamical systems with unmatched uncertainties. , 2011, , .		3

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145	Neuroadaptive Output Feedback Control for Automated Anesthesia With Noisy EEG Measurements. IEEE Transactions on Control Systems Technology, 2011, 19, 311-326.	3.2	27
146	A compressive sensing approach for glioma margin delineation using mass spectrometry. , 2011, 2011, 5682-5.		6
147	optimal semistable control for linear dynamical systems: An LMI approach. Journal of the Franklin Institute, 2011, 348, 2898-2910.	1.9	25
148	Neuroadaptive output feedback control for nonlinear nonnegative dynamical systems with actuator amplitude and integral constraints. International Journal of Adaptive Control and Signal Processing, 2011, 25, 483-501.	2.3	11
149	Output feedback adaptive command following and disturbance rejection for nonminimum phase uncertain dynamical systems. International Journal of Adaptive Control and Signal Processing, 2011, 25, 352-373.	2.3	5
150	Addendum to "Output feedback adaptive command following and disturbance rejection for nonminimum phase uncertain dynamical systems". International Journal of Adaptive Control and Signal Processing, 2011, 25, 379-381.	2.3	0
151	Multistability, bifurcations, and biological neural networks: A synaptic drive firing model for cerebral cortex transition in the induction of general anesthesia. Nonlinear Analysis: Hybrid Systems, 2011, 5, 554-572.	2.1	20
152	Multistability, bifurcations, and biological neural networks: A synaptic drive firing model for cerebral cortex transition in the induction of general anesthesia. , 2011, , .		4
153	Optimal determination of respiratory airflow patterns using a nonlinear multi-compartment model for a lung-rib-cage system. , 2011, , .		4
154	A derivative-free output feedback adaptive control architecture for minimum phase dynamical systems with unmatched uncertainties. , 2011, , .		0
155	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
156	Relevance Vector Machine Learning for Neonate Pain Intensity Assessment Using Digital Imaging. IEEE Transactions on Biomedical Engineering, 2010, 57, 1457-1466.	2.5	69
157	Author's reply to "Comments on "Distributed nonlinear control algorithms for network consensus" [Automatica 44 (2008) 2375-2381]". Automatica, 2010, 46, 1569.	3.0	0
158	On robust control algorithms for nonlinear network consensus protocols. International Journal of Robust and Nonlinear Control, 2010, 20, 269-284.	2.1	25
159	A neuroadaptive control architecture for nonlinear uncertain dynamical systems with input actuator constraints. , 2010, , .		1
160	Closed-loop control for cardiopulmonary management and intensive care unit sedation using expert systems. , 2010, , .		1
161	Adaptive reduced-order dynamic compensation for nonlinear uncertain dynamical systems. , 2010, , .		0
162	Optimal drug dosing control for intensive care unit sedation using a hybrid deterministic-stochastic pharmacokinetic and pharmacodynamic model. , 2010, , .		2

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163	A Q-modification neuroadaptive control architecture for discrete-time systems. , 2010, , .		0
164	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
165	Heat flow, work energy, chemical reactions, and thermodynamics: a dynamical systems perspective. , 2010, , .		2
166	Pressure- and work-limited neuroadaptive control for mechanical ventilation of critical care patients. , 2010, , .		0
167	Output feedback adaptive command following for nonminimum phase uncertain dynamical systems. , 2010, , .		4
168	Nonnegative and Compartmental Dynamical Systems. , 2010, , .		283
169	Semistability of switched linear systems. , 2009, , .		7
170	Neuroadaptive output feedback control for nonlinear nonnegative dynamical systems with actuator amplitude and integral constraints. , 2009, , .		0
171	Uniform semistability for time-varying dynamical systems and network consensus with time-dependent communication links. , 2009, , .		11
172	Agitation and pain assessment using digital imaging. , 2009, 2009, 2176-9.		25
173	Dissipativity theory for discontinuous dynamical systems: Basic input, state, and output properties, and finite-time stability of feedback interconnections. , 2009, , .		5
174	Closed-loop control for intensive care unit sedation. Bailliere's Best Practice and Research in Clinical Anaesthesiology, 2009, 23, 95-114.	1.7	19
175	Adaptive disturbance rejection control for compartmental systems with application to intraoperative anesthesia influenced by hemorrhage and hemodilution effects. International Journal of Adaptive Control and Signal Processing, 2009, 23, 1-29.	2.3	7
176	Adaptive control for nonlinear uncertain systems with actuator amplitude and rate saturation constraints. International Journal of Adaptive Control and Signal Processing, 2009, 23, 73-96.	2.3	70
177	$\hat{\alpha}_2$ suboptimal estimation and control for nonnegative dynamical systems. Optimal Control Applications and Methods, 2009, 30, 27-45.	1.3	3
178	Semistability of switched dynamical systems, Part I: Linear system theory. Nonlinear Analysis: Hybrid Systems, 2009, 3, 343-353.	2.1	11
179	Complexity, robustness, self-organization, swarms, and system thermodynamics. Nonlinear Analysis: Real World Applications, 2009, 10, 531-543.	0.9	20
180	$\hat{\alpha}_2$ optimal semistable stabilisation for linear discrete-time dynamical systems with applications to network consensus. International Journal of Control, 2009, 82, 456-469.	1.2	29

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181	On semistability of nonlinear switched systems. , 2009, , .		1
182	A New Neuroadaptive Control Architecture for Nonlinear Uncertain Dynamical Systems: Beyond Σ - and ϵ -Modifications. IEEE Transactions on Neural Networks, 2009, 20, 1707-1723.	4.8	92
183	Modeling and analysis of mass-action kinetics. IEEE Control Systems, 2009, 29, 60-78.	1.0	167
184	On semistability of nonlinear switched systems. , 2009, , .		0
185	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
186	Finite-time stabilization of nonlinear dynamical systems via control vector Lyapunov functions. Journal of the Franklin Institute, 2008, 345, 819-837.	1.9	63
187	Controller synthesis with guaranteed closed-loop phase constraints. Automatica, 2008, 44, 3211-3214.	3.0	6
188	On system state equipartitioning and semistability in network dynamical systems with arbitrary time-delays. Systems and Control Letters, 2008, 57, 670-679.	1.3	18
189	Distributed nonlinear control algorithms for network consensus. Automatica, 2008, 44, 2375-2381.	3.0	235
190	Energy dissipating hybrid control for impulsive dynamical systems. Nonlinear Analysis: Theory, Methods & Applications, 2008, 69, 3232-3248.	0.6	14
191	Finite-time stabilization of nonlinear impulsive dynamical systems. Nonlinear Analysis: Hybrid Systems, 2008, 2, 832-845.	2.1	115
192	Neural network hybrid adaptive control for nonlinear uncertain impulsive dynamical systems. Nonlinear Analysis: Hybrid Systems, 2008, 2, 862-874.	2.1	21
193	Reversibility and Poincaré Recurrence in Linear Dynamical Systems. IEEE Transactions on Automatic Control, 2008, 53, 2160-2165.	3.6	3
194	Finite-Time Semistability and Consensus for Nonlinear Dynamical Networks. IEEE Transactions on Automatic Control, 2008, 53, 1887-1900.	3.6	274
195	Finite-time stability for time-varying nonlinear dynamical systems. , 2008, , .		71
196	Semistability theory for differential inclusions with applications to consensus problems in dynamical networks with switching topology. , 2008, , .		18
197	On robust control algorithms for nonlinear network consensus protocols. , 2008, , .		4
198	A new neuroadaptive control architecture for nonlinear uncertain dynamical systems: Beyond Σ - and ϵ -modifications. , 2008, , .		13

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200	Neuroadaptive output feedback control for automated anesthesia with noisy EEG measurements. , 2008, , .		2
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