

Wassim M Haddad

List of Publications by Year in Descending Order

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

256
papers

5,440
citations

37
h-index

66
g-index

318
ext. papers

6,929
ext. citations

2.7
avg, IF

6.19
L-index

#	Paper	IF	Citations
256	Asymptotic and Finite Time Semistability for Nonlinear Discrete-Time Systems with Application to Network Consensus. <i>IEEE Transactions on Automatic Control</i> , 2022 , 1-1	5.9	0
255	Finite-Time Stabilization and Optimal Feedback Control for Nonlinear Discrete-Time Systems. <i>IEEE Transactions on Automatic Control</i> , 2022 , 1-1	5.9	
254	Lyapunov theorems for stability and semistability of discrete-time stochastic systems. <i>Automatica</i> , 2022 , 142, 110393	5.7	1
253	A Secure Control Learning Framework for Cyber-Physical Systems Under Sensor and Actuator Attacks. <i>IEEE Transactions on Cybernetics</i> , 2021 , 51, 4648-4660	10.2	11
252	Dissipativity Theory for Discrete-Time Nonlinear Stochastic Dynamical Systems, Part I: Input-Output and State Properties 2021 ,		2
251	Lyapunov Theorems for Semistability of Discrete-Time Stochastic Systems with Application to Network Consensus with Random Communication Noise 2021 ,		6
250	Asymptotic and Finite Time Semistability for Nonlinear Discrete-Time Systems 2021 ,		2
249	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	5.9	1
248	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	
247	On finite-time stability and stabilization of nonlinear hybrid dynamical systems. <i>AIMS Mathematics</i> , 2021 , 6, 5535-5562	2.2	1
246	Closed-Loop Control for Fluid Resuscitation: Recent Advances and Future Challenges. <i>Frontiers in Veterinary Science</i> , 2021 , 8, 642440	3.1	2
245	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	3	2
244	Finite Time Stability of Discrete-Time Stochastic Dynamical Systems 2021 ,		2
243	Reinforcement learning-based control of drug dosing with applications to anesthesia and cancer therapy 2020 , 251-297		0
242	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	2.8	4
241	Universal Feedback Controllers and Inverse Optimality for Nonlinear Stochastic Systems. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2020 , 142,	1.6	2
240	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	3.7	3

239	Validation of an automated system for detecting ineffective triggering asynchronies during mechanical ventilation: a retrospective study. <i>Journal of Clinical Monitoring and Computing</i> , 2020 , 34, 1233-1237	2	2
238	Adaptive Control for Multiagent Systems with Sensor/Actuator Attacks and Stochastic Disturbances. <i>Journal of Guidance, Control, and Dynamics</i> , 2020 , 43, 15-29	2.1	8
237	Finite-time stability of discrete autonomous systems. <i>Automatica</i> , 2020 , 122, 109282	5.7	9
236	Finite-Time Stability of Discrete Autonomous Systems 2020 ,		1
235	Mixed norm H ₂ /H _∞ and entropy covariance control: a convex optimisation approach. <i>International Journal of Control</i> , 2020 , 1-11	1.5	
234	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	5.9	7
233	A Fast Parameter Identification Framework for Personalized Pharmacokinetics. <i>Scientific Reports</i> , 2019 , 9, 14143	4.9	4
232	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	2.8	10
231	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	2.8	8
230	Optimal adaptive control of drug dosing using integral reinforcement learning. <i>Mathematical Biosciences</i> , 2019 , 309, 131-142	3.9	16
229	Implications of dissipativity, inverse optimal control, and stability margins for nonlinear stochastic feedback regulators. <i>International Journal of Robust and Nonlinear Control</i> , 2019 , 29, 5499-5519	3.6	2
228	Dynamic Dissipativity Theory for Stability of Time-Delay Systems. <i>Advances in Delays and Dynamics</i> , 2019 , 33-47	0.3	
227	A Secure Control Learning Framework for Cyber-Physical Systems under Sensor Attacks 2019 ,		4
226	A nonovershooting tracking controller for simultaneous infusion of anesthetics and analgesics. <i>Biomedical Signal Processing and Control</i> , 2019 , 49, 375-387	4.9	8
225	Stochastic differential games and inverse optimal control and stopper policies. <i>International Journal of Control</i> , 2019 , 92, 1692-1706	1.5	
224	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	1.5	19
223	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	7	32
222	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	2.9	3

221	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	1.7	6
220	Energy-based feedback control for stochastic port-controlled Hamiltonian systems. <i>Automatica</i> , 2018 , 97, 134-142	5.7	13
219	An Adaptive Control Architecture for Leader-Follower Multiagent Systems with Stochastic Disturbances and Sensor and Actuator Attacks 2018 ,		1
218	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	1.1	6
217	Adaptive Control for Mitigating Sensor and Actuator Attacks in Connected Autonomous Vehicle Platoons 2018 ,		7
216	A Nonovershooting Controller with Integral Action for Multi-input Multi-output Drug Dosing Control. <i>IFAC-PapersOnLine</i> , 2018 , 51, 60-65	0.7	1
215	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	2.7	
214	AI in the ICU: In the intensive care unit, artificial intelligence can keep watch. <i>IEEE Spectrum</i> , 2018 , 55, 31-35	1.7	17
213	A Fixed-Architecture Framework for Stochastic Nonlinear Controller Synthesis 2018 ,		1
212	An Adaptive Control Architecture for Mitigating Sensor and Actuator Attacks in Cyber-Physical Systems. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 6058-6064	5.9	157
211	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,	1.6	16
210	Nonlinear/nonquadratic optimal and inverse optimal control for stochastic dynamical systems. <i>International Journal of Robust and Nonlinear Control</i> , 2017 , 27, 4723-4751	3.6	10
209	Approximate Consensus of Multiagent Systems With Inaccurate Sensor Measurements. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2017 , 139,	1.6	2
208	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	1.3	18
207	Partial-State Stabilization and Optimal Feedback Control for Stochastic Dynamical Systems. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2017 , 139,	1.6	4
206	Reinforcement learning-based control of drug dosing for cancer chemotherapy treatment. <i>Mathematical Biosciences</i> , 2017 , 293, 11-20	3.9	37
205	Dissipativity Theory for Nonlinear Stochastic Dynamical Systems. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 1684-1699	5.9	19
204	Reinforcement learning-based control for combined infusion of sedatives and analgesics 2017 ,		3

203	An adaptive control architecture for cyber-physical system security in the face of sensor and actuator attacks and exogenous stochastic disturbances 2017 ,		3
202	Thermodynamics: The Unique Universal Science. <i>Entropy</i> , 2017 , 19, 621	2.8	12
201	Stochastic Thermodynamics: A Dynamical Systems Approach. <i>Entropy</i> , 2017 , 19, 693	2.8	2
200	Finite-Time Stabilization and Optimal Feedback Control. <i>IEEE Transactions on Automatic Control</i> , 2016 , 61, 1069-1074	5.9	58
199	Adaptive sliding mode control for a general nonlinear multicompartment lung model with input pressure and rate saturation constraints. <i>International Journal of Robust and Nonlinear Control</i> , 2016 , 26, 719-736	3.6	1
198	Nonlinear-nonquadratic optimal and inverse optimal control for stochastic dynamical systems 2016 ,		1
197	Adaptive control architectures for mitigating sensor attacks in cyber-physical systems. <i>Cyber-Physical Systems</i> , 2016 , 2, 24-52	1.1	38
196	Mitigating the effects of sensor uncertainties in networked multiagent systems 2016 ,		4
195	Partial-state stabilization and optimal feedback control for stochastic dynamical systems 2016 ,		1
194	Output Feedback Adaptive Control with Low-Frequency Learning and Fast Adaptation. <i>Journal of Guidance, Control, and Dynamics</i> , 2016 , 39, 16-31	2.1	11
193	Optimal singular control for nonlinear semistabilisation. <i>International Journal of Control</i> , 2016 , 89, 1222-1239	1.5	4
192	Dissipativity theory for nonlinear stochastic dynamical systems: Input-output and state properties 2016 ,		1
191	Partial-state stabilization and optimal feedback control. <i>International Journal of Robust and Nonlinear Control</i> , 2016 , 26, 1026-1050	3.6	10
190	An adaptive sliding mode observer for linear systems under malicious attack 2016 ,		3
189	Lyapunov and converse Lyapunov theorems for stochastic semistability. <i>Systems and Control Letters</i> , 2016 , 97, 83-90	2.4	4
188	Closed-loop control of anesthesia and mean arterial pressure using reinforcement learning. <i>Biomedical Signal Processing and Control</i> , 2015 , 22, 54-64	4.9	40
187	Finite-time partial stability and stabilization, and optimal feedback control. <i>Journal of the Franklin Institute</i> , 2015 , 352, 2329-2357	4	44
186	Optimal control for linear and nonlinear semistabilization. <i>Journal of the Franklin Institute</i> , 2015 , 352, 851-881	4	5

185	Optimal Control of Midazolam Infusion for Post Operative Patients in Intensive Care Units. <i>Asian Journal of Control</i> , 2015 , 17, 675-686	1.7	1
184	A Universal Feedback Controller for Discontinuous Dynamical Systems Using Nonsmooth Control Lyapunov Functions. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2015 , 137,	1.6	2
183	A Mechanistic Neural Field Theory of How Anesthesia Suppresses Consciousness: Synaptic Drive Dynamics, Bifurcations, Attractors, and Partial State Equipartitioning. <i>Journal of Mathematical Neuroscience</i> , 2015 , 5, 20	2.4	1
182	Finite-time partial stability theory and fractional Lyapunov differential inequalities 2015 ,		2
181	Optimal Determination of Respiratory Airflow Patterns for a General Multicompartment Lung Mechanics System With Nonlinear Resistance and Compliance Parameters. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2015 , 137,	1.6	1
180	Direct adaptive disturbance rejection control for sedation and analgesia 2014 ,		2
179	A general multicompartment lung mechanics model with nonlinear resistance and compliance respiratory parameters 2014 ,		9
178	Output feedback sliding mode control for a linear multi-compartment lung mechanics system. <i>International Journal of Control</i> , 2014 , 1-12	1.5	3
177	Consensus protocols for networked multi-agent systems with a uniformly continuous quasi-resetting architecture. <i>International Journal of Control</i> , 2014 , 87, 1716-1727	1.5	17
176	Set-valued protocols for almost consensus of multiagent systems with uncertain interagent communication 2014 ,		5
175	Optimal control for linear and nonlinear semistabilization 2014 ,		1
174	Human Brain Networks: Spiking Neuron Models, Multistability, Synchronization, Thermodynamics, Maximum Entropy Production, and Anesthetic Cascade Mechanisms. <i>Entropy</i> , 2014 , 16, 3939-4003	2.8	12
173	Closed-loop control of anesthesia and mean arterial pressure using reinforcement learning 2014 ,		2
172	Partial-state stabilization and optimal feedback control 2014 ,		1
171	A stochastic mean field model for an excitatory and inhibitory synaptic drive cortical neuronal network. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2014 , 25, 751-63	10.3	9
170	Predictive tracking control for a multi-compartment respiratory system with amplitude and rate input constraints. <i>International Journal of Control</i> , 2014 , 87, 1141-1152	1.5	
169	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,	1.6	4
168	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,	1.6	4

167	From data patterns to mechanistic models in acute critical illness. <i>Journal of Critical Care</i> , 2014 , 29, 604-10		26
166	Synchronization of biological neural network systems with stochastic perturbations and time delays. <i>Journal of the Franklin Institute</i> , 2014 , 351, 1205-1225	4	12
165	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	1.7	6
164	Model Predictive Control for a Multicompartment Respiratory System. <i>IEEE Transactions on Control Systems Technology</i> , 2013 , 21, 1988-1995	4.8	10
163	Output-feedback sliding mode control for a linear multicompartment lung mechanics system 2013 ,		1
162	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	4.5	4
161	Low-Frequency Learning and Fast Adaptation in Model Reference Adaptive Control. <i>IEEE Transactions on Automatic Control</i> , 2013 , 58, 1080-1085	5.9	135
160	Thermodynamics-Based Control of Network Systems. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2013 , 135,	1.6	7
159	Low-frequency learning and fast adaptation in model reference adaptive control for safety-critical systems 2013 ,		2
158	A Unification between Dynamical System Theory and Thermodynamics Involving an Energy, Mass, and Entropy State Space Formalism. <i>Entropy</i> , 2013 , 15, 1821-1846	2.8	5
157	Semistabilization, feedback dissipativity, system thermodynamics, and limits of performance in feedback control 2013 ,		1
156	Clinical Decision Support and Closed-Loop Control for Intensive Care Unit Sedation. <i>Asian Journal of Control</i> , 2013 , 15, 317-339	1.7	11
155	Flocking and rendezvous control protocols for nonlinear dynamical systems via hybrid stabilization of sets 2013 ,		3
154	Consensus protocols for networked multiagent systems with a uniformly continuous quasi-resetting architecture 2013 ,		3
153	Consensus control protocols for nonlinear dynamical systems via hybrid stabilization of sets 2013 ,		2
152	Output feedback adaptive stabilization and command following for minimum phase dynamical systems with unmatched uncertainties and disturbances. <i>International Journal of Control</i> , 2012 , 85, 706-721	1.5	13
151	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	4.8	13
150	Temporal Asymmetry, Entropic Irreversibility, and Finite-Time Thermodynamics: From Parmenides-Einstein Time-Reversal Symmetry to the Heraclitan Entropic Arrow of Time. <i>Entropy</i> , 2012 , 14, 407-455	2.8	8

149	A robust adaptive control architecture for disturbance rejection and uncertainty suppression with L ₁ transient and steady-state performance guarantees. <i>International Journal of Adaptive Control and Signal Processing</i> , 2012 , 26, 1024-1055	2.8	37
148	Poincaré recurrence and output reversibility in linear dynamical systems 2012 ,		1
147	Model predictive control for a multi-compartment respiratory system 2012 ,		1
146	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, 165946	2.8	6
145	Neuroadaptive Output Feedback Control for Automated Anesthesia With Noisy EEG Measurements. <i>IEEE Transactions on Control Systems Technology</i> , 2011 , 19, 311-326	4.8	19
144	A compressive sensing approach for glioma margin delineation using mass spectrometry. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2011 , 2011, 5682-5	0.9	5
143	optimal semistable control for linear dynamical systems: An LMI approach. <i>Journal of the Franklin Institute</i> , 2011 , 348, 2898-2910	4	18
142	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	2.8	7
141	Output feedback adaptive command following and disturbance rejection for nonminimum phase uncertain dynamical systems. <i>International Journal of Adaptive Control and Signal Processing</i> , 2011 , 25, 352-373	2.8	1
140	Addendum to Output feedback adaptive command following and disturbance rejection for nonminimum phase uncertain dynamical systems <i>International Journal of Adaptive Control and Signal Processing</i> , 2011 , 25, 379-381	2.8	
139	Pressure- and work-limited neuroadaptive control for mechanical ventilation of critical care patients. <i>IEEE Transactions on Neural Networks</i> , 2011 , 22, 614-26		9
138	Output feedback adaptive stabilization and command following for minimum phase dynamical systems with unmatched uncertainties 2011 ,		1
137	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	4.5	13
136	Multistability, bifurcations, and biological neural networks: A synaptic drive firing model for cerebral cortex transition in the induction of general anesthesia 2011 ,		2
135	Optimal determination of respiratory airflow patterns using a nonlinear multi-compartment model for a lung-rib-cage system 2011 ,		1
134	A neuroadaptive control architecture for nonlinear uncertain dynamical systems with input actuator constraints 2010 ,		1
133	Optimal drug dosing control for intensive care unit sedation using a hybrid deterministic-stochastic pharmacokinetic and pharmacodynamic model 2010 ,		2
132	Limit cycle stability analysis and adaptive control of a multi-compartment model for a pressure-limited respirator and lung mechanics system. <i>International Journal of Control</i> , 2010 , 83, 940-955 ¹⁻⁵		13

131	Output feedback adaptive command following for nonminimum phase uncertain dynamical systems 2010 ,		3
130	Finite-time semistability, Filippov systems, and consensus protocols for nonlinear dynamical networks with switching topologies. <i>Nonlinear Analysis: Hybrid Systems</i> , 2010 , 4, 557-573	4.5	40
129	Relevance vector machine learning for neonate pain intensity assessment using digital imaging. <i>IEEE Transactions on Biomedical Engineering</i> , 2010 , 57, 1457-66	5	44
128	Author's reply to Comments on Distributed nonlinear control algorithms for network consensus [Automatica 44 (2008) 2375-2381] <i>Automatica</i> , 2010 , 46, 1569	5.7	
127	On robust control algorithms for nonlinear network consensus protocols. <i>International Journal of Robust and Nonlinear Control</i> , 2010 , 20, 269-284	3.6	21
126	Nonnegative and Compartmental Dynamical Systems 2010 ,		190
125	Semistability of switched linear systems 2009 ,		5
124	Uniform semistability for time-varying dynamical systems and network consensus with time-dependent communication links 2009 ,		6
123	Agitation and pain assessment using digital imaging. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2009 , 2009, 2176-9	0.9	18
122	Closed-loop control for intensive care unit sedation. <i>Baillieres Best Practice and Research in Clinical Anaesthesiology</i> , 2009 , 23, 95-114	4	14
121	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	2.8	6
120	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	2.8	44
119	H ₂ suboptimal estimation and control for nonnegative dynamical systems. <i>Optimal Control Applications and Methods</i> , 2009 , 30, 27-45	1.7	3
118	Semistability of switched dynamical systems, Part I: Linear system theory. <i>Nonlinear Analysis: Hybrid Systems</i> , 2009 , 3, 343-353	4.5	10
117	Complexity, robustness, self-organization, swarms, and system thermodynamics. <i>Nonlinear Analysis: Real World Applications</i> , 2009 , 10, 531-543	2.1	16
116	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	1.5	22
115	A new neuroadaptive control architecture for nonlinear uncertain dynamical systems: beyond sigma- and e-modifications. <i>IEEE Transactions on Neural Networks</i> , 2009 , 20, 1707-23		72
114	Modeling and analysis of mass-action kinetics. <i>IEEE Control Systems</i> , 2009 , 29, 60-78	2.9	119

113	Semistability, Finite-Time Stability, Differential Inclusions, and Discontinuous Dynamical Systems Having a Continuum of Equilibria. <i>IEEE Transactions on Automatic Control</i> , 2009 , 54, 2465-2470	5.9	89
112	Nonlinear Adaptive Tracking Of Surface Vessels With Exogenous Disturbances. <i>Asian Journal of Control</i> , 2008 , 5, 88-103	1.7	3
111	DIRECT ADAPTIVE CONTROL FOR NONLINEAR MATRIX SECOND-ORDER SYSTEMS WITH TIME-VARYING AND SIGN-INDEFINITE DAMPING AND STIFFNESS OPERATORS. <i>Asian Journal of Control</i> , 2008 , 9, 11-19	1.7	1
110	Reversibility and Poincaré Recurrence in Linear Dynamical Systems. <i>IEEE Transactions on Automatic Control</i> , 2008 , 53, 2160-2165	5.9	2
109	Finite-Time Semistability and Consensus for Nonlinear Dynamical Networks. <i>IEEE Transactions on Automatic Control</i> , 2008 , 53, 1887-1900	5.9	213
108	Finite-time stability for time-varying nonlinear dynamical systems 2008 ,		41
107	Semistability theory for differential inclusions with applications to consensus problems in dynamical networks with switching topology 2008 ,		6
106	On robust control algorithms for nonlinear network consensus protocols 2008 ,		3
105	A new neuroadaptive control architecture for nonlinear uncertain dynamical systems: Beyond σ and e-modifications 2008 ,		3
104	Direct adaptive control for a mutli-compartmental model of a pressure-limited respirator and lung mechanics system 2008 ,		1
103	Neuroadaptive output feedback control for automated anesthesia with noisy EEG measurements 2008 ,		2
102	Semistability for time-varying discontinuous dynamical systems with application to agreement problems in switching networks 2008 ,		9
101	Finite-time stabilization of nonlinear dynamical systems via control vector Lyapunov functions. <i>Journal of the Franklin Institute</i> , 2008 , 345, 819-837	4	52
100	Controller synthesis with guaranteed closed-loop phase constraints. <i>Automatica</i> , 2008 , 44, 3211-3214	5.7	4
99	On system state equipartitioning and semistability in network dynamical systems with arbitrary time-delays. <i>Systems and Control Letters</i> , 2008 , 57, 670-679	2.4	12
98	Distributed nonlinear control algorithms for network consensus. <i>Automatica</i> , 2008 , 44, 2375-2381	5.7	186
97	Energy dissipating hybrid control for impulsive dynamical systems. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2008 , 69, 3232-3248	1.3	11
96	Finite-time stabilization of nonlinear impulsive dynamical systems. <i>Nonlinear Analysis: Hybrid Systems</i> , 2008 , 2, 832-845	4.5	81

95	Neural network hybrid adaptive control for nonlinear uncertain impulsive dynamical systems. <i>Nonlinear Analysis: Hybrid Systems</i> , 2008 , 2, 862-874	4-5	13
94	Nonlinear Dynamical Systems and Control 2008 ,		451
93	Neural network adaptive output feedback control for intensive care unit sedation and intraoperative anesthesia. <i>IEEE Transactions on Neural Networks</i> , 2007 , 18, 1049-66		57
92	Finite-time stabilization of nonlinear impulsive dynamical systems 2007 ,		4
91	Control vector Lyapunov functions for large-scale impulsive dynamical systems. <i>Nonlinear Analysis: Hybrid Systems</i> , 2007 , 1, 223-243	4-5	13
90	Hybrid decentralized maximum entropy control for large-scale dynamical systems. <i>Nonlinear Analysis: Hybrid Systems</i> , 2007 , 1, 244-263	4-5	8
89	Continuous and Hybrid Distributed Control for Multiagent Coordination: Consensus, Flocking, and Cyclic Pursuit. <i>Proceedings of the American Control Conference</i> , 2007 ,	1.2	8
88	Limit Cycle Stability Analysis of a Multi-Compartment Model for a Pressure-Limited Respirator and Lung Mechanics System. <i>Proceedings of the American Control Conference</i> , 2007 ,	1.2	4
87	Finite-Time Semistability Theory with Applications to Consensus Protocols in Dynamical Networks. <i>Proceedings of the American Control Conference</i> , 2007 ,	1.2	14
86	Adaptive Control for Compartmental Dynamical Systems with Disturbance Rejection Guarantees. <i>Proceedings of the American Control Conference</i> , 2007 ,	1.2	1
85	Lyapunov and converse Lyapunov theorems for semistability 2007 ,		2
84	Energy- and Entropy-Based Stabilization for Lossless Dynamical Systems via Hybrid Controllers. <i>IEEE Transactions on Automatic Control</i> , 2007 , 52, 1604-1614	5.9	26
83	H2 optimal semistable control for linear dynamical systems: An LMI approach 2007 ,		4
82	Direct Adaptive Control of Nonnegative and Compartmental Dynamical Systems with Time Delay 2007 , 291-316		1
81	Stability Analysis of Nonlinear Dynamical Systems using Conley Index Theory 2006 ,		2
80	On System State Equipartitioning and Semistability in Network Dynamical Systems with Arbitrary Time-Delays 2006 ,		4
79	Adaptive control for nonlinear compartmental dynamical systems with applications to clinical pharmacology. <i>Systems and Control Letters</i> , 2006 , 55, 62-70	2.4	30
78	Impulsive and Hybrid Dynamical Systems 2006 ,		311

77	Adaptive Control of Mammillary Drug Delivery Systems with Actuator Amplitude Constraints and System Time Delays. <i>European Journal of Control</i> , 2005 , 11, 586-600	2.5	14
76	Passivity-based neural network adaptive output feedback control for nonlinear nonnegative dynamical systems. <i>IEEE Transactions on Neural Networks</i> , 2005 , 16, 387-98		33
75	Neural network adaptive control for nonlinear nonnegative dynamical systems. <i>IEEE Transactions on Neural Networks</i> , 2005 , 16, 399-413		19
74	Thermodynamic modeling, energy equipartition, and nonconservation of entropy for discrete-time dynamical systems. <i>Advances in Difference Equations</i> , 2005 , 2005, 248040	3.6	12
73	Optimal disturbance rejection control for nonlinear impulsive dynamical systems. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2005 , 62, 1466-1489	1.3	11
72	Stability and dissipativity theory for nonnegative dynamical systems: a unified analysis framework for biological and physiological systems. <i>Nonlinear Analysis: Real World Applications</i> , 2005 , 6, 35-65	2.1	114
71	Hybrid adaptive control for non-linear uncertain impulsive dynamical systems. <i>International Journal of Adaptive Control and Signal Processing</i> , 2005 , 19, 445-469	2.8	5
70	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	3.6	13
69	Vector dissipativity theory for large-scale impulsive dynamical systems. <i>Mathematical Problems in Engineering</i> , 2004 , 2004, 225-262	1.1	6
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