

Wassim M Haddad

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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	Nonlinear Dynamical Systems and Control 2008 ,		451
255	Impulsive and Hybrid Dynamical Systems 2006 ,		311
254	Finite-Time Semistability and Consensus for Nonlinear Dynamical Networks. <i>IEEE Transactions on Automatic Control</i> , 2008 , 53, 1887-1900	5.9	213
253	Stability theory for nonnegative and compartmental dynamical systems with time delay. <i>Systems and Control Letters</i> , 2004 , 51, 355-361	2.4	207
252	Nonnegative and Compartmental Dynamical Systems 2010 ,		190
251	Distributed nonlinear control algorithms for network consensus. <i>Automatica</i> , 2008 , 44, 2375-2381	5.7	186
250	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
249	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
248	Steady-state Kalman filtering with an error bound. <i>Systems and Control Letters</i> , 1989 , 12, 9-16	2.4	120
247	Modeling and analysis of mass-action kinetics. <i>IEEE Control Systems</i> , 2009 , 29, 60-78	2.9	119
246	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
245	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. <i>International Journal of Robust and Nonlinear Control</i> , 1993 , 3, 313-339	3.6	104
244	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
243	Finite-time stabilization of nonlinear impulsive dynamical systems. <i>Nonlinear Analysis: Hybrid Systems</i> , 2008 , 2, 832-845	4.5	81
242	Robust stabilization with positive real uncertainty: Beyond the small gain theorem. <i>Systems and Control Letters</i> , 1991 , 17, 191-208	2.4	81
241	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. <i>International Journal of Robust and Nonlinear Control</i> , 1994 , 4, 249-265	3.6	79
240	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

239	An invariance principle for nonlinear hybrid and impulsive dynamical systems. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2003 , 53, 527-550	1.3	71
238	Non-linear impulsive dynamical systems. Part I: Stability and dissipativity. <i>International Journal of Control</i> , 2001 , 74, 1631-1658	1.5	71
237	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	2.8	63
236	Robust stability and performance via fixed-order dynamic compensation with guaranteed cost bounds. <i>Mathematics of Control, Signals, and Systems</i> , 1990 , 3, 139-163	1.3	63
235	Finite-Time Stabilization and Optimal Feedback Control. <i>IEEE Transactions on Automatic Control</i> , 2016 , 61, 1069-1074	5.9	58
234	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
233	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	1.5	55
232	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
231	Active Suspension Control to Improve Vehicle Ride and Handling. <i>Vehicle System Dynamics</i> , 1997 , 28, 1-24	2.8	49
230	Finite-time partial stability and stabilization, and optimal feedback control. <i>Journal of the Franklin Institute</i> , 2015 , 352, 2329-2357	4	44
229	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
228	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
227	Robust adaptive control for nonlinear uncertain systems. <i>Automatica</i> , 2003 , 39, 551-556	5.7	42
226	Finite-time stability for time-varying nonlinear dynamical systems 2008 ,		41
225	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
224	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
223	Resetting Virtual Absorbers for Vibration Control. <i>JVC/Journal of Vibration and Control</i> , 2000 , 6, 61-83	2	39
222	Adaptive control architectures for mitigating sensor attacks in cyber-physical systems. <i>Cyber-Physical Systems</i> , 2016 , 2, 24-52	1.1	38

221	Reinforcement learning-based control of drug dosing for cancer chemotherapy treatment. <i>Mathematical Biosciences</i> , 2017 , 293, 11-20	3.9	37
220	A robust adaptive control architecture for disturbance rejection and uncertainty suppression with L_2 transient and steady-state performance guarantees. <i>International Journal of Adaptive Control and Signal Processing</i> , 2012 , 26, 1024-1055	2.8	37
219	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
218	Generalized Riccati equations for the full- and reduced-order mixed-norm standard problem. <i>Systems and Control Letters</i> , 1990 , 14, 185-197	2.4	33
217	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
216	A Lyapunov-based adaptive control framework for discrete-time non-linear systems with exogenous disturbances. <i>International Journal of Control</i> , 2004 , 77, 250-263	1.5	32
215	Limit cycle analysis of the verge and foliot clock escapement using impulsive differential equations and Poincaré maps. <i>International Journal of Control</i> , 2003 , 76, 1685-1698	1.5	32
214	Non-linear impulsive dynamical systems. Part II: Stability of feedback interconnections and optimality. <i>International Journal of Control</i> , 2001 , 74, 1659-1677	1.5	32
213	Optimal discrete-time control for non-linear cascade systems. <i>Journal of the Franklin Institute</i> , 1998 , 335, 827-839	4	31
212	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
211	Exponentially dissipative nonlinear dynamical systems: a nonlinear extension of strict positive realness. <i>Mathematical Problems in Engineering</i> , 2003 , 2003, 25-45	1.1	27
210	From data patterns to mechanistic models in acute critical illness. <i>Journal of Critical Care</i> , 2014 , 29, 604-10		26
209	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
208	Vector dissipativity theory and stability of feedback interconnections for large-scale non-linear dynamical systems. <i>International Journal of Control</i> , 2004 , 77, 907-919	1.5	26
207	Stability and dissipativity theory for discrete-time non-negative and compartmental dynamical systems. <i>International Journal of Control</i> , 2003 , 76, 1845-1861	1.5	26
206	Extensions of mixed- μ bounds to monotonic and odd monotonic nonlinearities using absolute stability theory—This paper was presented at the 1992 IEEE Conference on Decision and Control.. <i>International Journal of Control</i> , 1994 , 60, 905-951	1.5	26
205	Induced Convolution Operator Norms of Linear Dynamical Systems. <i>Mathematics of Control, Signals, and Systems</i> , 2000 , 13, 216-239	1.3	25
204	Fixed-architecture controller synthesis for systems with input-output time-varying nonlinearities. <i>International Journal of Robust and Nonlinear Control</i> , 1997 , 7, 675-710	3.6	24

203	Energy-based control for hybrid port-controlled Hamiltonian systems. <i>Automatica</i> , 2003 , 39, 1425-1435	5.7	23
202	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
201	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
200	Generalized Lyapunov and invariant set theorems for nonlinear dynamical systems. <i>Systems and Control Letters</i> , 1999 , 38, 289-295	2.4	20
199	On stable full-order and reduced-order LQG controllers. <i>Optimal Control Applications and Methods</i> , 1991 , 12, 163-172	1.7	20
198	Dissipativity Theory for Nonlinear Stochastic Dynamical Systems. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 1684-1699	5.9	19
197	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
196	Neural network adaptive control for nonlinear nonnegative dynamical systems. <i>IEEE Transactions on Neural Networks</i> , 2005 , 16, 399-413		19
195	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
194	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
193	optimal semistable control for linear dynamical systems: An LMI approach. <i>Journal of the Franklin Institute</i> , 2011 , 348, 2898-2910	4	18
192	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
191	Hybrid nonnegative and computational dynamical systems. <i>Mathematical Problems in Engineering</i> , 2002 , 8, 493-515	1.1	18
190	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	2.8	18
189	A popov criterion for uncertain linear multivariable systems. <i>Automatica</i> , 1995 , 31, 1061-1064	5.7	18
188	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
187	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
186	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

185	Optimal adaptive control of drug dosing using integral reinforcement learning. <i>Mathematical Biosciences</i> , 2019 , 309, 131-142	3.9	16
184	Complexity, robustness, self-organization, swarms, and system thermodynamics. <i>Nonlinear Analysis: Real World Applications</i> , 2009 , 10, 531-543	2.1	16
183	Closed-loop control for intensive care unit sedation. <i>Baillieres Best Practice and Research in Clinical Anaesthesiology</i> , 2009 , 23, 95-114	4	14
182	Robust nonlinear feedback control for uncertain linear systems with nonquadratic performance criteria. <i>Systems and Control Letters</i> , 1998 , 33, 327-338	2.4	14
181	Finite-Time Semistability Theory with Applications to Consensus Protocols in Dynamical Networks. <i>Proceedings of the American Control Conference</i> , 2007 ,	1.2	14
180	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
179	Energy-based feedback control for stochastic port-controlled Hamiltonian systems. <i>Automatica</i> , 2018 , 97, 134-142	5.7	13
178	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	4.5	13
177	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
176	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
175	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
174	Control vector Lyapunov functions for large-scale impulsive dynamical systems. <i>Nonlinear Analysis: Hybrid Systems</i> , 2007 , 1, 223-243	4.5	13
173	Neural network hybrid adaptive control for nonlinear uncertain impulsive dynamical systems. <i>Nonlinear Analysis: Hybrid Systems</i> , 2008 , 2, 862-874	4.5	13
172	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
171	Generalized mixed- \mathcal{H}_∞ bounds for real and complex multiple-block uncertainty with internal matrix structure. <i>International Journal of Control</i> , 1996 , 64, 789-806	1.5	13
170	Applications of Popov controller synthesis to benchmark problems with real parameter uncertainty. <i>Journal of Guidance, Control, and Dynamics</i> , 1994 , 17, 759-768	2.1	13
169	Thermodynamics: The Unique Universal Science. <i>Entropy</i> , 2017 , 19, 621	2.8	12
168	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

167	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
166	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
165	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
164	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
163	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
162	Guaranteed domains of attraction for multivariable Lur \ddot{e} systems via open Lyapunov surfaces. <i>International Journal of Robust and Nonlinear Control</i> , 1997 , 7, 935-949	3.6	11
161	Energy dissipating hybrid control for impulsive dynamical systems. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2008 , 69, 3232-3248	1.3	11
160	Optimal disturbance rejection control for nonlinear impulsive dynamical systems. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2005 , 62, 1466-1489	1.3	11
159	On the gap between and entropy performance measures in control design. <i>Systems and Control Letters</i> , 1990 , 14, 113-120	2.4	11
158	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
157	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
156	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
155	Model Predictive Control for a Multicompartment Respiratory System. <i>IEEE Transactions on Control Systems Technology</i> , 2013 , 21, 1988-1995	4.8	10
154	Semistability of switched dynamical systems, Part I: Linear system theory. <i>Nonlinear Analysis: Hybrid Systems</i> , 2009 , 3, 343-353	4.5	10
153	Optimal fixed-structure control for linear non-negative dynamical systems. <i>International Journal of Robust and Nonlinear Control</i> , 2004 , 14, 487-511	3.6	10
152	Steady-state kalman filtering with an H ∞ error bound 1989 ,		10
151	Partial-state stabilization and optimal feedback control. <i>International Journal of Robust and Nonlinear Control</i> , 2016 , 26, 1026-1050	3.6	10
150	A general multicompartment lung mechanics model with nonlinear resistance and compliance respiratory parameters 2014 ,		9

149	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
148	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
147	Semistability for time-varying discontinuous dynamical systems with application to agreement problems in switching networks 2008 ,		9
146	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	2.8	9
145	Structured singular value controller synthesis using constant D-scales without D-K iteration. <i>International Journal of Control</i> , 1996 , 63, 813-830	1.5	9
144	Finite-time stability of discrete autonomous systems. <i>Automatica</i> , 2020 , 122, 109282	5.7	9
143	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
142	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
141	Hybrid decentralized maximum entropy control for large-scale dynamical systems. <i>Nonlinear Analysis: Hybrid Systems</i> , 2007 , 1, 244-263	4.5	8
140	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
139	Stabilization of linear systems with simultaneous state, actuation, and measurement delays. <i>International Journal of Control</i> , 1999 , 72, 1619-1629	1.5	8
138	Fixed-order sampled-data estimation. <i>International Journal of Control</i> , 1992 , 55, 129-139	1.5	8
137	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
136	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
135	Thermodynamics-Based Control of Network Systems. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2013 , 135,	1.6	7
134	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
133	PROBABILITY-ONE HOMOTOPY ALGORITHMS FOR ROBUST CONTROLLER SYNTHESIS WITH FIXED-STRUCTURE MULTIPLIERS. <i>International Journal of Robust and Nonlinear Control</i> , 1997 , 7, 165-185 ^{3.6}		7
132	Discrete-time extensions of mixed-limits to monotonic and odd monotonic nonlinearities. <i>International Journal of Control</i> , 1995 , 61, 423-441	1.5	7

131	Discrete-time mixed-norm H_2/H_∞ controller synthesis. <i>Optimal Control Applications and Methods</i> , 1996 , 17, 107-121	1.7	7
130	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
129	Adaptive Control for Mitigating Sensor and Actuator Attacks in Connected Autonomous Vehicle Platoons 2018 ,		7
128	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
127	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
126	Uniform semistability for time-varying dynamical systems and network consensus with time-dependent communication links 2009 ,		6
125	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
124	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
123	Robust nonlinear-nonquadratic feedback control via parameterdependent Lyapunov functions. <i>International Journal of Control</i> , 1997 , 66, 843-861	1.5	6
122	Semistability theory for differential inclusions with applications to consensus problems in dynamical networks with switching topology 2008 ,		6
121	Vector dissipativity theory for large-scale impulsive dynamical systems. <i>Mathematical Problems in Engineering</i> , 2004 , 2004, 225-262	1.1	6
120	Stability margins of nonlinear optimal regulators with nonquadratic performance criteria involving cross-weighting terms. <i>Systems and Control Letters</i> , 2000 , 39, 71-78	2.4	6
119	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
118	Lyapunov Theorems for Semistability of Discrete-Time Stochastic Systems with Application to Network Consensus with Random Communication Noise 2021 ,		6
117	Optimal control for linear and nonlinear semistabilization. <i>Journal of the Franklin Institute</i> , 2015 , 352, 851-881	4	5
116	Set-valued protocols for almost consensus of multiagent systems with uncertain interagent communication 2014 ,		5
115	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
114	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

113	Semistability of switched linear systems 2009 ,		5
112	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
111	Discrete-time nonlinear analysis and feedback control with nonquadratic performance criteria. <i>Journal of the Franklin Institute</i> , 1996 , 333, 849-860	4	5
110	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
109	A Fast Parameter Identification Framework for Personalized Pharmacokinetics. <i>Scientific Reports</i> , 2019 , 9, 14143	4.9	4
108	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
107	Mitigating the effects of sensor uncertainties in networked multiagent systems 2016 ,		4
106	Optimal singular control for nonlinear semistabilisation. <i>International Journal of Control</i> , 2016 , 89, 1222-1239	1.5	4
105	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
104	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
103	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
102	Finite-time stabilization of nonlinear impulsive dynamical systems 2007 ,		4
101	Controller synthesis with guaranteed closed-loop phase constraints. <i>Automatica</i> , 2008 , 44, 3211-3214	5.7	4
100	On System State Equipartitioning and Semistability in Network Dynamical Systems with Arbitrary Time-Delays 2006 ,		4
99	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
98	H ₂ optimal semistable control for linear dynamical systems: An LMI approach 2007 ,		4
97	Adaptive control for nonlinear nonnegative dynamical systems. <i>Automatica</i> , 2004 , 40, 1637-1642	5.7	4
96	H ₂ , Mixed H ₂ /H _∞ and H ₂ /L ₁ Optimally Tuned Passive Isolators and Absorbers. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 1998 , 120, 282-287	1.6	4

95	Lyapunov and converse Lyapunov theorems for stochastic semistability. <i>Systems and Control Letters</i> , 2016 , 97, 83-90	2.4	4
94	A Secure Control Learning Framework for Cyber-Physical Systems under Sensor Attacks 2019 ,		4
93	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
92	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
91	Reinforcement learning-based control for combined infusion of sedatives and analgesics 2017 ,		3
90	An adaptive control architecture for cyber-physical system security in the face of sensor and actuator attacks and exogenous stochastic disturbances 2017 ,		3
89	Flocking and rendezvous control protocols for nonlinear dynamical systems via hybrid stabilization of sets 2013 ,		3
88	Consensus protocols for networked multiagent systems with a uniformly continuous quasi-resetting architecture 2013 ,		3
87	Output feedback adaptive command following for nonminimum phase uncertain dynamical systems 2010 ,		3
86	H 2 suboptimal estimation and control for nonnegative dynamical systems. <i>Optimal Control Applications and Methods</i> , 2009 , 30, 27-45	1.7	3
85	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	2.4	3
84	Nonlinear fixed-order dynamic compensation for passive systems. <i>International Journal of Robust and Nonlinear Control</i> , 1998 , 8, 349-365	3.6	3
83	Nonlinear Adaptive Tracking Of Surface Vessels With Exogenous Disturbances. <i>Asian Journal of Control</i> , 2008 , 5, 88-103	1.7	3
82	On robust control algorithms for nonlinear network consensus protocols 2008 ,		3
81	A new neuroadaptive control architecture for nonlinear uncertain dynamical systems: Beyond σ and e-modifications 2008 ,		3
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