

On the Input-to-State Stability Property

European Journal of Control

1, 24-36

DOI: [10.1016/s0947-3580\(95\)70005-x](https://doi.org/10.1016/s0947-3580(95)70005-x)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Output Feedback Global Stabilization for a Class of Nonlinear Systems with Unmodelled Dynamics. European Journal of Control, 1996, 2, 201-210.	1.6	9
2	Semiglobal robust regulation of nonlinear systems. , 1996, , 27-53.		7
3	Stabilization of Spatial Attractors and Control of Nonlinear Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1996, 29, 2008-2013.	0.4	5
4	Controllability Through Active Forces in Cooperating Robots with General Payloads 1. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1996, 29, 13-18.	0.4	0
5	A Lyapunov formulation of the nonlinear small-gain theorem for interconnected ISS systems. Automatica, 1996, 32, 1211-1215.	3.0	534
6	Global almost disturbance decoupling with stability for non minimum-phase single-input single-output nonlinear systems. Systems and Control Letters, 1996, 28, 115-122.	1.3	92
7	Global normal forms for MIMO nonlinear systems, with application to stabilization and disturbance attenuation. , 0, , .		17
8	Input-to-state stability (ISS) analysis for dynamic neural networks. , 0, , .		150
9	A notion of input to output stability. , 1997, , .		26
10	Output-to-state stability and detectability of nonlinear systems. Systems and Control Letters, 1997, 29, 279-290.	1.3	240
11	Design of Robust Adaptive Controllers for Nonlinear Systems with Dynamic Uncertainties. Automatica, 1998, 34, 825-840.	3.0	644
12	Stability analysis of dynamic neural control. Expert Systems With Applications, 1998, 14, 227-236.	4.4	32
13	Input-to-state stabilization of linear systems with positive outputs. Systems and Control Letters, 1998, 35, 245-255.	1.3	20
14	Stabilization by output feedback revisited. , 1998, , 127-142.		1
15	On the local input to state practical stability of feedback interconnected systems. , 1998, , .		0
16	Robust adaptive control of systems with nonlinear unmodeled dynamics. , 0, , .		2
17	Output stabilization of nonlinear systems: linear systems with positive outputs as a case study. , 0, , .		1
18	Growth Rate Conditions for Global Asymptotic Stability of Cascaded Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1998, 31, 465-470.	0.4	1

#	ARTICLE	IF	CITATIONS
19	Semiglobal Practical Stabilization of Uncertain Non-Minimum-Phase Nonlinear Systems via Output Feedback. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1998, 31, 615-620.	0.4	7
20	New results in decentralized adaptive nonlinear control with output-feedback. , 0, , .		8
21	Input-to-state stability of exponentially stabilized semilinear control systems with inhomogeneous perturbations. Systems and Control Letters, 1999, 38, 27-35.	1.3	10
22	A combined backstepping and small-gain approach to adaptive output feedback control. Automatica, 1999, 35, 1131-1139.	3.0	244
23	Input-to-state stability of PD-controlled robotic systems. Automatica, 1999, 35, 1285-1290.	3.0	102
24	Asymptotic stability of interconnected passive nonlinear systems. International Journal of Robust and Nonlinear Control, 1999, 9, 261-273.	2.1	10
25	Magnitude and rate constrained linear system control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1999, 32, 1949-1954.	0.4	1
26	Nonlinear disturbance attenuation with global stability via output feedback. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1999, 32, 2440-2445.	0.4	3
28	Output regulation for nonlinear systems: an overview. International Journal of Robust and Nonlinear Control, 2000, 10, 323-337.	2.1	147
29	Global output feedback control with disturbance attenuation for minimum-phase nonlinear systems. Systems and Control Letters, 2000, 39, 155-164.	1.3	38
30	L2 - Gain and Passivity Techniques in Nonlinear Control. Communications and Control Engineering, 2000, , .	1.0	1,037
31	Decentralized adaptive output-feedback tracking for a new class of large-scale nonlinear systems. , 2000, , .		0
32	Output-feedback predictive control of constrained linear systems via set-membership state estimation. International Journal of Control, 2000, 73, 655-665.	1.2	82
33	Stability and Tracking of Linear System Control in Presence of Magnitude and Rate Constraints. European Journal of Control, 2000, 6, 186-193.	1.6	3
34	Decentralized global disturbance attenuation for a class of large-scale uncertain nonlinear systems. International Journal of Systems Science, 2000, 31, 1285-1297.	3.7	6
35	Input-Output-to-State Stability. SIAM Journal on Control and Optimization, 2001, 39, 1874-1928.	1.1	156
36	Stability of Perturbed Delay Differential Equations and Stabilization of Nonlinear Cascade Systems. SIAM Journal on Control and Optimization, 2001, 40, 661-680.	1.1	27
37	A note on input-to-state stability and averaging of systems with inputs. IEEE Transactions on Automatic Control, 2001, 46, 1760-1765.	3.6	13

#	ARTICLE	IF	CITATIONS
38	Simple robust output-feedback controller for uncertain nonlinear systems. IEEE Transactions on Automatic Control, 2001, 46, 1765-1772.	3.6	5
39	An open loop nonlinear model based thrust controller for marine thrusters. , 0, , .		3
40	Global output feedback tracking for nonlinear systems in generalized output-feedback canonical form. , 2001, , .		2
41	Robust control of permanent magnet stepper motors using only rotor position and velocity. , 0, , .		2
42	Nonlinear observers of time derivatives from noisy measurements of periodic signals. , 2001, , 123-135.		3
43	Algorithms for identification of continuous time nonlinear systems: a passivity approach. Part I: Identification in open-loop operation Part II: Identification in closed-loop operation. Lecture Notes in Control and Information Sciences, 2001, , 13-44.	0.6	2
44	Neuro-genetic robust regulation design for nonlinear parameter dependent systems. , 2001, , 353-364.		1
45	Robust Adaptive Fault Isolation Observers for Nonlinear Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2001, 34, 1343-1348.	0.4	0
46	Global stabilization of a certain class of nonlinear dynamical systems using state detection. Applied Mathematics Letters, 2001, 14, 913-919.	1.5	5
47	A trajectory based approach for robustness of input-to-state stability. , 2001, , .		11
48	Adaptive control of stepper motors without current measurements. , 2001, , .		14
49	New results in decentralized adaptive non-linear stabilization using output feedback. International Journal of Control, 2001, 74, 659-673.	1.2	35
50	Recent advances in output regulation of nonlinear systems. , 2001, , 409-419.		7
51	Robust nonlinear integral control. IEEE Transactions on Automatic Control, 2001, 46, 1336-1342.	3.6	80
52	Global robust servomechanism theory for nonlinear systems in lower-triangular form. , 0, , .		5
53	Generalized adaptive output-feedback form with unknown parameters multiplying high output relative-degree states. , 0, , .		35
54	Output regulation of practically stabilizable systems: some elementary examples. , 0, , .		0
55	A global high-gain based scaling method for the generalized output-feedback canonical form. , 0, , .		6

#	ARTICLE	IF	CITATIONS
56	Robustness of Nonlinear Delay Equations with Respect to Input Perturbations: a Trajectory-Based Approach. <i>Mathematics of Control, Signals, and Systems</i> , 2002, 15, 316-335.	1.4	6
57	Global asymptotic stability of nonlinear cascade systems. <i>Applied Mathematics Letters</i> , 2002, 15, 275-277.	1.5	18
58	Robust adaptive control for non-linear systems in generalized output-feedback canonical form. <i>International Journal of Adaptive Control and Signal Processing</i> , 2003, 17, 285-311.	2.3	39
59	Adaptive fuzzy robust tracking controller design via small gain approach and its application. <i>IEEE Transactions on Fuzzy Systems</i> , 2003, 11, 783-795.	6.5	161
60	ISS properties of nonholonomic mobile robots. , 0, , .		1
61	Robust Autonomous Guidance. <i>Advances in Industrial Control</i> , 2003, , .	0.4	234
62	Modeling and Adaptive Nonlinear Control of Electric Motors. <i>Power Systems</i> , 2003, , .	0.3	143
64	Quantitative Aspects of the Input-to-State-Stability Property. <i>Lecture Notes in Control and Information Sciences</i> , 0, , 215-230.	0.6	6
65	Recent developments in decentralized nonlinear control. , 0, , .		2
66	ISS properties of nonholonomic vehicles. <i>Systems and Control Letters</i> , 2004, 53, 229-235.	1.3	19
67	Dynamic High-Gain Scaling: State and Output Feedback With Application to Systems With ISS Appended Dynamics Driven by All States. <i>IEEE Transactions on Automatic Control</i> , 2004, 49, 2219-2239.	3.6	163
68	On the Steady-State Behavior of Forced Nonlinear Systems. <i>Lecture Notes in Control and Information Sciences</i> , 0, , 119-143.	0.6	5
69	ON "INVARIANCE OF NONLINEAR SYSTEMS WITH FUNCTIONAL AND SIGNAL UNCERTAINTIES. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2005, 38, 85-90.	0.4	0
70	Output-feedback stabilization of a class of uncertain non-minimum-phase nonlinear systems. <i>Automatica</i> , 2005, 41, 1609-1615.	3.0	79
71	Direct robust adaptive fuzzy control (DRAFC) for uncertain nonlinear systems using small gain theorem. <i>Fuzzy Sets and Systems</i> , 2005, 151, 79-97.	1.6	40
72	Robust adaptive fuzzy tracking control for a class of perturbed strict-feedback nonlinear systems via small-gain approach. <i>Information Sciences</i> , 2005, 170, 211-234.	4.0	87
73	Robust adaptive fuzzy control for permanent magnet synchronous servomotor drives. <i>International Journal of Intelligent Systems</i> , 2005, 20, 153-171.	3.3	10
74	Convergent Systems: Analysis and Synthesis. , 0, , 131-146.		25

#	ARTICLE	IF	CITATIONS
75	Adaptive output-feedback for nonlinear systems with no a priori bounds on parameters. , 0, , .		6
76	A set valued characterization of ISDS Lyapunov functions. , 0, , .		0
77	Nonlinear Stabilization via System Immersion and Manifold Invariance: Survey and New Results. Multiscale Modeling and Simulation, 2005, 3, 801-817.	0.6	12
78	Adaptive fuzzy H/sub /spl infin// stabilization for strict-feedback canonical nonlinear systems via backstepping and small-gain approach. IEEE Transactions on Fuzzy Systems, 2005, 13, 104-114.	6.5	177
79	2 Cascaded Nonlinear Time-Varying Systems: Analysis and Design. Lecture Notes in Control and Information Sciences, 0, , 23-64.	0.6	66
80	Finite-Time Stabilization of Nonlinear Systems With Parametric and Dynamic Uncertainties. IEEE Transactions on Automatic Control, 2006, 51, 1950-1956.	3.6	261
81	Robust adaptive fuzzy VSS control for a class of uncertain nonlinear systems using small gain design. International Journal of General Systems, 2006, 35, 575-599.	1.2	1
82	Output Tracking Control of PWA Systems. , 2006, , .		7
83	On observer design for nonlinear systems. International Journal of Systems Science, 2006, 37, 1097-1109.	3.7	17
84	Stochastic adaptive backstepping controller design by introducing dynamic signal and changing supply function. International Journal of Control, 2006, 79, 1635-1646.	1.2	99
85	Adaptive Output Feedback Control for Stochastic Nonlinear Systems. , 2006, , .		0
86	An invariance kernel representation of ISDS Lyapunov functions. Systems and Control Letters, 2006, 55, 736-745.	1.3	6
87	Extended Casimir Approach to Controlled Hamiltonian Systems. Journal of Systems Science and Complexity, 2006, 19, 211-218.	1.6	2
89	Adaptive Dual High-Gain Output Feedback Global in Unknown Parameters for a Class of Nonlinear Systems. , 2006, , .		0
90	A Time-Invariant Dual High-Gain Based Adaptive Output-Feedback Controller for Nonlinear Systems. , 2006, , .		5
91	Adaptive tracking of a class of uncertain nonlinear systems subject to unknown dead-zone input nonlinearities: the symmetric and the non-symmetric cases. , 2006, , .		2
92	Robust finite time control of nonlinear systems with dynamic uncertainty. , 2006, , .		0
93	On a New Method for $H_{\{2\}}$ -Based Decomposition. IEEE Transactions on Automatic Control, 2006, 51, 1956-1961.	3.6	23

#	ARTICLE	IF	CITATIONS
94	Application of Nonlinear Time Series Principles to Assess Power Generation Gas Turbine Health. , 2007, , 629.		0
95	Advanced Tools for Nonlinear Sampled-Data Systemsâ€™ Analysis and Control. European Journal of Control, 2007, 13, 221-241.	1.6	74
96	On convergence properties of piecewise affine systems. International Journal of Control, 2007, 80, 1233-1247.	1.2	59
97	Stability of Dissipative Systems. Communications and Control Engineering, 2007, , 257-313.	1.0	0
98	Output feedback stabilisation of uncertain nonminimum-phase systems. , 2007, , .		1
99	Modelling the dynamics of log-domain circuits. International Journal of Circuit Theory and Applications, 2007, 35, 33-70.	1.3	22
100	Adaptive backstepping controller design using stochastic small-gain theorem. Automatica, 2007, 43, 608-620.	3.0	260
101	A new controller for the inverted pendulum on a cart. International Journal of Robust and Nonlinear Control, 2008, 18, 1607-1621.	2.1	26
102	Dual high-gain-based adaptive output-feedback control for a class of nonlinear systems. International Journal of Adaptive Control and Signal Processing, 2008, 22, 23-42.	2.3	53
103	Adaptive fuzzy approach for a class of uncertain nonlinear systems in strict-feedback form. ISA Transactions, 2008, 47, 286-299.	3.1	54
104	Uniform semiglobal practical asymptotic stability for non-autonomous cascaded systems and applications. Automatica, 2008, 44, 337-347.	3.0	78
105	DSC-backstepping based robust adaptive NN control for strict-feedback nonlinear systems via small gain theorem. International Journal of Systems, Control and Communications, 2008, 1, 124.	0.2	4
106	Advanced nonlinear control: Input-output and Lyapunov approaches. , 2008, , .		0
107	DSC-backstepping based robust adaptive fuzzy control for a class of strict-feedback nonlinear systems. , 2008, , .		6
108	Finite-time input-to-state stability and optimization of switched systems. , 2008, , .		7
109	Input-to-state stability of hybrid switched systems with impulsive effects. , 2008, , .		6
110	UNIFORM CONVERGENCE OF MONOTONE MEASURE DIFFERENTIAL INCLUSIONS: WITH APPLICATION TO THE CONTROL OF MECHANICAL SYSTEMS WITH UNILATERAL CONSTRAINTS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2008, 18, 1435-1457.	0.7	34
111	Lyapunov function-based stochastic small-gain theorem and its applications. , 2008, , .		0

#	ARTICLE	IF	CITATIONS
112	Reconfigurable control of PWA systems with actuator and sensor faults: Stability. , 2008, , .		14
113	Output-feedback control of Lur'e-type systems with set-valued nonlinearities: A Popov-criterion approach. , 2008, , .		8
114	Event-triggered cooperative control. , 2009, , .		53
115	Fault identification and reconfigurable control for bimodal piecewise affine systems. , 2009, , .		2
116	On the transfer function of the zero dynamics for a boundary controlled heat problem in two dimensions. , 2009, , .		3
117	Nonlinear control of non-minimum phase hypersonic vehicle models. , 2009, , .		37
118	Application of the dynamic high-gain scaling methodology to servocompensator design. International Journal of Robust and Nonlinear Control, 2009, 19, 937-964.	2.1	6
119	An introduction to interconnection and damping assignment passivity-based control in process engineering. Journal of Process Control, 2009, 19, 1413-1426.	1.7	86
120	An approach of partial control design for system control and synchronization. Chaos, Solitons and Fractals, 2009, 39, 1410-1417.	2.5	9
121	Control of mechanical motion systems with non-collocation of actuation and friction: A Popov criterion approach for input-to-state stability and set-valued nonlinearities. Automatica, 2009, 45, 405-415.	3.0	93
122	Event-triggered control for multi-agent systems. , 2009, , .		182
123	On global Lyapunov characterization of multi-stable nonlinear systems. , 2009, , .		1
125	Optimal Switching Control of Motion Stages. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 111-116.	0.4	2
126	On observability of nonlinear steady-state generators. Automatica, 2010, 46, 1712-1718.	3.0	4
127	Synchronization of hyperchaotic systems via linear control. Communications in Nonlinear Science and Numerical Simulation, 2010, 15, 1910-1920.	1.7	11
128	Converse Lyapunov Theorem of Input-to-State Stability for Time-delay Systems. Zidonghua Xuebao/Acta Automatica Sinica, 2010, 36, 1131-1136.	1.5	11
129	Results on input-to-output and input-output-to-state stability for hybrid systems and their interconnections. , 2010, , .		16
130	Stability and Control of Lur'e-type Measure Differential Inclusions. World Scientific Series on Nonlinear Science, Series B, 2010, , 129-151.	0.2	0

#	ARTICLE	IF	CITATIONS
131	Finite-Time Input-to-State Stability and Applications to Finite-Time Control Design. SIAM Journal on Control and Optimization, 2010, 48, 4395-4418.	1.1	211
132	A DSC Approach to Robust Adaptive NN Tracking Control for Strict-Feedback Nonlinear Systems. IEEE Transactions on Systems, Man, and Cybernetics, 2010, 40, 915-927.	5.5	469
133	On a Small Gain Theorem for ISS Networks in Dissipative Lyapunov Form. European Journal of Control, 2011, 17, 357-365.	1.6	84
134	Heart rate control during cycling exercise using Takagi-Sugeno models. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 12783-12788.	0.4	13
135	Reconfigurable control of piecewise affine systems with actuator and sensor faults: Stability and tracking. Automatica, 2011, 47, 678-691.	3.0	116
136	Stability Analysis and Nonlinear Observer Design Using Takagi-Sugeno Fuzzy Models. Studies in Fuzziness and Soft Computing, 2011, , .	0.6	137
137	On the transformation of nonlinear dynamical systems into the extended nonlinear observable canonical form. International Journal of Control, 2011, 84, 94-106.	1.2	44
138	Adaptive tracking control based on disturbance attenuation and ISS stabilization of Euler-Lagrange nonlinear systems in the presence of uncertainty and input noise. , 2011, , .		2
139	Adaptive control based on single neural network approximation for non-linear pure-feedback systems. IET Control Theory and Applications, 2012, 6, 2387-2396.	1.2	39
140	Stochastic Barbalat's Lemma and Its Applications. IEEE Transactions on Automatic Control, 2012, 57, 1537-1543.	3.6	76
141	A Nonconservative LMI Condition for Stability of Switched Systems With Guaranteed Dwell Time. IEEE Transactions on Automatic Control, 2012, 57, 1297-1302.	3.6	138
142	On input-to-state stability of stochastic nonlinear systems with Markovian jumping parameters. International Journal of Control, 2012, 85, 343-349.	1.2	27
143	Global Lyapunov Analysis of Multistable Nonlinear Systems. SIAM Journal on Control and Optimization, 2012, 50, 3132-3154.	1.1	32
144	An increased coupling-based control method for underactuated crane systems: theoretical design and experimental implementation. Nonlinear Dynamics, 2012, 70, 1135-1146.	2.7	25
145	Heart rate modeling and robust control during cycling exercise. , 2012, , .		3
146	Input-to-state stability of impulsive hybrid systems with stochastic effects. , 2012, , .		0
147	On stability and dissipativity of stochastic nonlinear systems. , 2012, , .		2
148	A novel nonlinear coupling control approach for overhead cranes: Theory and implementation. , 2012, , .		4

#	ARTICLE	IF	CITATIONS
149	Distributed Event-Triggered Control for Multi-Agent Systems. IEEE Transactions on Automatic Control, 2012, 57, 1291-1297.	3.6	1,917
150	Coverage tracking control for multiple cooperative agents. International Journal of Control, 2012, 85, 660-670.	1.2	4
151	Discrete-Time Observer Error Linearizability via Restricted Dynamic Systems. IEEE Transactions on Automatic Control, 2012, 57, 1543-1547.	3.6	5
152	Event-triggered average-consensus of multi-agent systems with weighted and direct topology. Journal of Systems Science and Complexity, 2012, 25, 845-855.	1.6	78
153	Robust output-feedback control for stochastic nonlinear systems with modeling errors. Journal of Control Theory and Applications, 2012, 10, 344-348.	0.8	4
154	Self-tuning of a switching controller for scanning motion systems. Mechatronics, 2012, 22, 310-319.	2.0	23
155	Asymptotic regulation for distributed parameter systems via zero dynamics inverse design. International Journal of Robust and Nonlinear Control, 2013, 23, 305-333.	2.1	6
156	Two algebraic criteria for input-to-state stability of recurrent neural networks with time-varying delays. Neural Computing and Applications, 2013, 22, 1163-1169.	3.2	27
157	A DSC approach to adaptive neural network tracking control for pure-feedback nonlinear systems. Applied Mathematics and Computation, 2013, 219, 6224-6235.	1.4	50
158	Input-to-state stable cooperative attitude regulation of spacecraft formation flying. Journal of the Franklin Institute, 2013, 350, 50-71.	1.9	25
160	Small-gain conditions for stochastic network systems. , 2013, , .		3
161	Heart Rate/Cycling Power Control System. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 821-826.	0.4	0
162	Mean square input-to-state stability of a general class of stochastic recurrent neural networks with Markovian switching. Neural Computing and Applications, 2014, 25, 1657-1663.	3.2	17
163	Stability of random affine systems. , 2014, , .		0
164	Nonlinear Zero Dynamics. , 2014, , 1-11.		1
165	Input-to-State Stability of Multi-Agent Systems. Applied Mechanics and Materials, 0, 538, 486-489.	0.2	0
166	Decentralized event-triggered consensus control for second-order multi-agent systems. Neurocomputing, 2014, 133, 18-24.	3.5	93
167	Robust Output Synchronization of a Network of Heterogeneous Nonlinear Agents Via Nonlinear Regulation Theory. IEEE Transactions on Automatic Control, 2014, 59, 2680-2691.	3.6	201

#	ARTICLE	IF	CITATIONS
168	Stability Analysis for a Class of Systems: From Model-Based Methods to Data-Driven Methods. IEEE Transactions on Industrial Electronics, 2014, 61, 6463-6471.	5.2	13
169	Leader-following coordination of nonlinear agents under time-varying communication topologies. , 2014, , .		2
170	Trapped Unburned Fuel Estimation and Robustness Analysis for a Turbocharged Diesel Engine With Negative Valve Overlap Strategy. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2015, 137, .	0.9	2
171	Input-to-State Stability of Stochastic Memristive Neural Networks with Time-Varying Delay. Mathematical Problems in Engineering, 2015, 2015, 1-8.	0.6	4
172	Stabilization of random nonlinear systems with unmodeled dynamics. , 2015, , .		2
173	ISS of multistable systems with delays: Application to droop-controlled inverter-based microgrids. , 2015, , .		12
174	Leader-Following Coordination of Nonlinear Agents Under Time-Varying Communication Topologies. IEEE Transactions on Control of Network Systems, 2015, 2, 393-405.	2.4	32
175	Dynamic average consensus under limited control authority and privacy requirements. International Journal of Robust and Nonlinear Control, 2015, 25, 1941-1966.	2.1	139
176	Decentralized Adaptive Optimal Control of Large-Scale Systems With Application to Power Systems. IEEE Transactions on Industrial Electronics, 2015, 62, 2439-2447.	5.2	131
177	On input-to-state stability for stochastic coupled control systems on networks. Applied Mathematics and Computation, 2015, 262, 90-101.	1.4	8
178	Stability Criteria of Random Nonlinear Systems and Their Applications. IEEE Transactions on Automatic Control, 2015, 60, 1038-1049.	3.6	127
179	Networked Systems. , 2015, , 849-853.		1
180	Nonlinear System Identification: An Overview of Common Approaches. , 2015, , 890-899.		0
181	Nonlinear Zero Dynamics. , 2015, , 899-907.		1
182	Adaptive NN control for a class of stochastic nonlinear systems with unmodeled dynamics using DSC technique. Neurocomputing, 2015, 149, 142-150.	3.5	28
183	Stochastic Adaptive Dynamic Programming for Robust Optimal Control Design. , 2016, , 211-245.		2
184	New results in global stabilization for stochastic nonlinear systems. Control Theory and Technology, 2016, 14, 57-67.	1.0	3
185	Global stabilisation of complicated feedforward non-linear systems by constructing state-dependent saturation levels. IET Control Theory and Applications, 2016, 10, 2071-2082.	1.2	3

#	ARTICLE	IF	CITATIONS
186	Optimal robust control for constrained nonlinear hybrid systems with application to bipedal locomotion. , 2016, , .		35
187	Robustness of delayed multistable systems with application to droop-controlled inverter-based microgrids. International Journal of Control, 2016, 89, 909-918.	1.2	26
188	Dissipativity-Based Small-Gain Theorems for Stochastic Network Systems. IEEE Transactions on Automatic Control, 2016, 61, 2065-2078.	3.6	31
189	Disturbance attenuation by output feedback for a class of nonlinear systems. Transactions of the Institute of Measurement and Control, 2016, 38, 884-892.	1.1	3
190	Nonlinear Systems. Lecture Notes in Control and Information Sciences, 2017, , .	0.6	4
191	Cooperative Output Regulation of Linear Multi-Agent Systems by a Novel Distributed Dynamic Compensator. IEEE Transactions on Automatic Control, 2017, 62, 6481-6488.	3.6	57
192	L2-Gain and Passivity Techniques in Nonlinear Control. Communications and Control Engineering, 2017, , .	1.0	723
193	A relaxed characterization of ISS for periodic systems with multiple invariant sets. European Journal of Control, 2017, 37, 1-7.	1.6	14
194	Relaxing the conditions of ISS for multistable periodic systems. IFAC-PapersOnLine, 2017, 50, 7217-7222.	0.5	2
196	Hybrid integrator design for enhanced tracking in motion control. , 2017, , .		24
197	State-estimation for a class of tubular reactors using a pointwise innovation scheme. Journal of Process Control, 2017, 60, 104-114.	1.7	15
198	Lectures in Feedback Design for Multivariable Systems. Advanced Textbooks in Control and Signal Processing, 2017, , .	0.6	75
200	A Tool for the Global Stabilization of Stochastic Nonlinear Systems. IEEE Transactions on Automatic Control, 2017, 62, 1946-1951.	3.6	8
201	Scenario based MPC for decentralized switched systems with Plug and Play capabilities. , 2017, , .		0
202	Lyapunov Functions: An Optimization Theory Perspective * *This work was supported by the Russian Scientific Foundation, project no. 16-11-10015. IFAC-PapersOnLine, 2017, 50, 7456-7461.	0.5	27
203	Reglerentwurf mittels exakter Linearisierung. , 2017, , 113-221.		0
204	Interacting with multi-agent systems through intention field based shared control methods. , 2017, , .		3
205	Improved condition for ISS of stochastic memristive neural networks with time-varying delays. , 2017, , .		0

#	ARTICLE	IF	CITATIONS
206	Convergence of stochastic processes in the presence of disturbances: IISS/ISS and their cascades. , 2017, , .		0
207	Decentralized scenario-based plug and play MPC for linear systems with multiplicative uncertainties. Journal of Physics: Conference Series, 2017, 783, 012023.	0.3	1
209	Optimisation and asymptotic stability. International Journal of Control, 2018, 91, 2404-2410.	1.2	4
210	A novel projected Fletcher-Reeves conjugate gradient approach for finite-time optimal robust controller of linear constraints optimization problem: Application to bipedal walking robots. Optimal Control Applications and Methods, 2018, 39, 130-159.	1.3	31
211	Adaptive Estimation for Uncertain Nonlinear Systems: A Sliding-Mode Observer Approach. , 2018, , .		3
212	Almost sure stability of the delayed Markovian jump RDNNs. Advances in Difference Equations, 2018, 2018, .	3.5	1
213	A Distributed Level Curve Tracking Control Law for Multi-Agent Systems. , 2018, , .		4
214	Necessary Conditions for Output Regulation with Exosystem Modelled by Differential Inclusions. IFAC-PapersOnLine, 2018, 51, 25-30.	0.5	9
215	Nonlinear Stability Analysis of Fully Controlled Permanent Magnet Synchronous Machines. , 2018, , .		0
216	Characterization of semiglobal stability properties for discrete-time models of non-uniformly sampled nonlinear systems. Systems and Control Letters, 2018, 122, 60-66.	1.3	4
217	A class of nonlinear adaptive observers for SIR epidemic model. , 2018, , .		5
219	Stability Analysis of Complex Networks with Linear-Threshold Rate Dynamics. , 2018, , .		4
220	Robust Adaptive Control for a Class of Nonlinear Systems Based on Interval Type-2 Fuzzy Logic System and Small Gain Approach. , 2018, , .		3
221	Model approximation and stabilization of reactive sputter processes. Journal of Process Control, 2019, 83, 121-128.	1.7	11
222	Input-to-state Stability of Nonlinear Positive Systems. International Journal of Control, Automation and Systems, 2019, 17, 3058-3068.	1.6	14
223	State Measurement Error-to-State Stability Results Based on Approximate Discrete-Time Models. IEEE Transactions on Automatic Control, 2019, 64, 3308-3315.	3.6	4
224	Quaternion-Based Hybrid Attitude Control for an Under-Actuated Flapping Wing Aerial Vehicle. IEEE/ASME Transactions on Mechatronics, 2019, 24, 2341-2352.	3.7	7
225	LMI Region-Based Nonlinear Disturbance Observer With Application to Robust Wind Turbine Control. , 2019, , 35-75.		4

#	ARTICLE	IF	CITATIONS
226	Combined open-loop and funnel control for underactuated multibody systems. <i>Nonlinear Dynamics</i> , 2019, 95, 1977-1998.	2.7	36
227	Event-triggered Adaptive Attitude Tracking Control of a Quadrotor UAV. , 2019, , .		3
228	A Gradient-Free Three-Dimensional Source Seeking Strategy With Robustness Analysis. <i>IEEE Transactions on Automatic Control</i> , 2019, 64, 3439-3446.	3.6	25
229	Input-to-state stability of delayed reaction-diffusion neural networks with impulsive effects. <i>Neurocomputing</i> , 2019, 333, 261-272.	3.5	19
230	Stability of Dissipative Systems. <i>Communications and Control Engineering</i> , 2020, , 357-427.	1.0	0
231	Exponential input-to-state stability of stochastic delay reactionâ€“diffusion neural networks. <i>Neurocomputing</i> , 2020, 412, 399-405.	3.5	14
232	Spreading Control in Two-Layer Multiplex Networks. <i>Entropy</i> , 2020, 22, 1157.	1.1	4
233	Input-to-State Stability Analysis of Subhomogeneous Cooperative Systems. <i>IEEE Access</i> , 2020, 8, 90132-90140.	2.6	0
234	A Daiâ€“Yuan conjugate gradient algorithm of linear equation constrained optimization approach for optimal robust controller of bipedal robots. <i>International Journal of Advanced Robotic Systems</i> , 2020, 17, 172988141989017.	1.3	1
235	Direct Adaptive Neural Network Control for Ship Manoeuvring Modelling Group Model-Based Uncertain Nonlinear Systems in Non-Affine Pure-Feedback Form. <i>IEEE Access</i> , 2020, 8, 3272-3284.	2.6	7
236	Fully decentralized robust backstepping voltage control of photovoltaic systems for DC islanded microgrids based on disturbance observer method. <i>ISA Transactions</i> , 2020, 101, 471-481.	3.1	22
237	Voltage control in a DC islanded microgrid based on nonlinear disturbance observer with CPLs. <i>Journal of Energy Storage</i> , 2020, 29, 101296.	3.9	11
238	Hierarchical Selective Recruitment in Linear-Threshold Brain Networksâ€“Part I: Single-Layer Dynamics and Selective Inhibition. <i>IEEE Transactions on Automatic Control</i> , 2021, 66, 949-964.	3.6	12
239	Adaptive estimation for uncertain nonlinear systems with measurement noise: A slidingâ€“mode observer approach. <i>International Journal of Robust and Nonlinear Control</i> , 2021, 31, 3809-3826.	2.1	13
240	Stochastic Incremental Input-to-State Stability of Nonlinear Switched Systems with Brownian Motions. <i>Circuits, Systems, and Signal Processing</i> , 2021, 40, 2242-2266.	1.2	0
241	Robust Adaptive Tracking Control for Hypersonic Vehicle Based on Interval Type-2 Fuzzy Logic System and Small-Gain Approach. <i>IEEE Transactions on Cybernetics</i> , 2021, 51, 2504-2517.	6.2	36
242	Adaptive Intelligent Controller Design-Based ISS Modular Approach for Uncertain Nonlinear Systems With Time-Varying Full-State Constraints. <i>IEEE Transactions on Artificial Intelligence</i> , 2021, 2, 352-361.	3.4	7
243	Robust Safety-Critical Control for Dynamic Robotics. <i>IEEE Transactions on Automatic Control</i> , 2022, 67, 1073-1088.	3.6	38

#	ARTICLE	IF	CITATIONS
244	Nonlinear Zero Dynamics. , 2021, , 1502-1510.		0
245	Output based adaptive distributed output observer for leader-follower multiagent systems. Automatica, 2021, 125, 109413.	3.0	23
246	Tuning and Analysis of Geometric Tracking Controllers on $SO(3)$. , 2021, , .		1
247	Thrust vector control of constrained multibody systems. Automatica, 2021, 129, 109586.	3.0	3
248	Observability analysis and robust observer design for a continuous yeast culture. Journal of Process Control, 2021, 104, 62-73.	1.7	6
249	Analysis and Verification of Input-to-State Stability for Nonautonomous Discrete-Time Switched Systems via Semidefinite Programming. IEEE Transactions on Automatic Control, 2021, 66, 4452-4459.	3.6	9
250	Projection-based integrators for improved motion control: Formalization, well-posedness and stability of hybrid integrator-gain systems. Automatica, 2021, 133, 109830.	3.0	13
251	Design of Convergent Switched Systems. , 2006, , 291-311.		21
253	Convergent Systems: Nonlinear Simplicity. Lecture Notes in Control and Information Sciences, 2017, , 51-77.	0.6	8
254	Control Theory for Automation: Fundamentals. , 2009, , 147-172.		2
255	Input-to-state stability based adaptive control for spacecraft fly-around with input saturation. IET Control Theory and Applications, 2020, 14, 1365-1374.	1.2	14
256	Learning Min-norm Stabilizing Control Laws for Systems with Unknown Dynamics. , 2020, , .		4
257	Optimal Robust Control for Bipedal Robots through Control Lyapunov Function based Quadratic Programs. , 0, , .		47
258	Output feedback stabilization of a class of uncertain nonlinear systems. , 2004, , .		33
259	Adaptive stabilization of nonlinear system with functional uncertainty. , 2003, , .		3
260	On a small gain theorem for ISS networks in dissipative Lyapunov form. , 2009, , .		5
261	Small Gain Theorem with Restrictions for Uncertain Time-varying Nonlinear Systems. Communications in Information and Systems, 2006, 6, 115-136.	0.3	156
262	Telerehabilitation Robot System with Haptic Feedback by Means of Brake and Deadband Control Towards Home Medical Welfare Support. Transactions of the Institute of Systems Control and Information Engineers, 2007, 20, 309-320.	0.1	5

#	ARTICLE	IF	CITATIONS
263	Nonlinear Control Systems. The Electrical Engineering Handbook, 2004, , .	0.2	0
264	Adaptive Distributed Event-Triggered Collaborative Control with WSN. Communications in Computer and Information Science, 2014, , 523-532.	0.4	0
265	Performance bounds for disturbance attenuation in nonlinear non-minimum-phase systems. , 1997, , .		2
266	Adaptive nonlinear control. , 1999, , 119-158.		3
267	Preliminaries on Dynamical Systems and Stability Theory. Studies in Systems, Decision and Control, 2016, , 37-90.	0.8	0
268	Robustness of Delayed Multistable Systems. Advances in Delays and Dynamics, 2019, , 83-97.	0.4	0
269	Robust impulsive observer design for infinite-dimensional cell population balance models. International Journal of Robust and Nonlinear Control, 2022, 32, 774-791.	2.1	7
270	Local State-Independent Input-to-Output Stability as a Tool for Robustness Analysis of Mechanical Systems. , 2020, , .		0
271	Attitude Consensus of Multiple Rigid Body Systems by Output Based Adaptive Distributed Output Observer. , 2020, , .		0
272	Generalized nonlinear output-feedback canonical form: global output tracking. , 0, , .		5
273	Input-to-state stability of dissipative PI control for a class of semilinear heat equations. IFAC-PapersOnLine, 2021, 54, 281-286.	0.5	2
275	Design of Convergent Switched Systems. , 0, , 271-289.		3
276	A sliding mode based active fault-tolerant control for robust trajectory tracking in quadrotors under a rotor failure. International Journal of Robust and Nonlinear Control, 2022, 32, 8451-8469.	2.1	6
277	Sliding mode predictive control: A survey. Annual Reviews in Control, 2022, 54, 148-166.	4.4	6
278	Input-to-state Stability for Hybrid Kalman Filters. IFAC-PapersOnLine, 2022, 55, 295-300.	0.5	0
279	Observer design for a nonlinear heat equation: Application to semiconductor wafer processing. Journal of Process Control, 2022, 119, 34-43.	1.7	2
280	Event-triggered Adaptive Fault-tolerant Control of Uncertain Non-affine Systems with Predefined Performance. Journal of the Franklin Institute, 2022, , .	1.9	0
281	Robust feedback design for nonlinear systems: a survey. Turkish Journal of Electrical Engineering and Computer Sciences, 0, , .	0.9	1

#	ARTICLE	IF	CITATIONS
282	Model-Based Temperature Control in Thermal Processing of Silicon Wafers. IFAC-PapersOnLine, 2022, 55, 180-186.	0.5	2
283	A Variable Gain Nonlinear Controller for Ultrasonic Motor. , 2022, , .		0
284	Linear Servo Robust Tracking Control Based on Zero Phase Error Tracking-Feed-Forward and Extended State Observer. , 2022, , .		0
285	Collision-Free and Connectivity-Preserving Formation Control of Nonlinear Multi-Agent Systems With External Disturbances. IEEE Transactions on Vehicular Technology, 2023, 72, 9956-9968.	3.9	2
286	Exponential integral input-to-state stability of delay reaction-diffusion systems. , 2022, , .		0
287	Event-trigger-based Fault-tolerant Control of Uncertain Non-affine Systems with Predefined Performance. International Journal of Control, Automation and Systems, 2023, 21, 519-535.	1.6	0
288	Event-triggered adaptive stabilization control of stochastic nonlinear systems with unmodeled dynamics. International Journal of Robust and Nonlinear Control, 2023, 33, 5322-5336.	2.1	2
290	Nonlinear Control Theory for Automation. Springer Handbooks, 2023, , 163-187.	0.3	0
293	An Adaptive Observer for Time-Varying Nonlinear Systems - Application to a Crop Irrigation Model. , 2023, , .		0
294	Input-to-State Stability in Probability. , 2023, , .		0