

Dragan Nestic

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169
papers

7,768
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44
h-index

84
g-index

182
ext. papers

9,316
ext. citations

4
avg, IF

6.37
L-index

#	Paper	IF	Citations
169	Networked Control Systems With Communication Constraints: Tradeoffs Between Transmission Intervals, Delays and Performance. <i>IEEE Transactions on Automatic Control</i> , 2010 , 55, 1781-1796	5.9	540
168	. <i>IEEE Transactions on Automatic Control</i> , 2004 , 49, 1650-1667	5.9	442
167	Sufficient conditions for stabilization of sampled-data nonlinear systems via discrete-time approximations. <i>Systems and Control Letters</i> , 1999 , 38, 259-270	2.4	394
166	On non-local stability properties of extremum seeking control. <i>Automatica</i> , 2006 , 42, 889-903	5.7	380
165	. <i>IEEE Transactions on Automatic Control</i> , 2004 , 49, 1103-1122	5.9	314
164	Input-to-state stability of networked control systems?. <i>Automatica</i> , 2004 , 40, 2121-2128	5.7	215
163	A Lyapunov Proof of an Improved Maximum Allowable Transfer Interval for Networked Control Systems. <i>IEEE Transactions on Automatic Control</i> , 2007 , 52, 892-897	5.9	193
162	Formulas relating stability estimates of discrete-time and sampled-data nonlinear systems. <i>Systems and Control Letters</i> , 1999 , 38, 49-60	2.4	181
161	Multivariable Newton-based extremum seeking. <i>Automatica</i> , 2012 , 48, 1759-1767	5.7	166
160	Explicit Computation of the Sampling Period in Emulation of Controllers for Nonlinear Sampled-Data Systems. <i>IEEE Transactions on Automatic Control</i> , 2009 , 54, 619-624	5.9	166
159	Stability properties of reset systems. <i>Automatica</i> , 2008 , 44, 2019-2026	5.7	163
158	. <i>IEEE Transactions on Automatic Control</i> , 2009 , 54, 732-747	5.9	159
157	. <i>IEEE Transactions on Automatic Control</i> , 2007 , 52, 767-781	5.9	158
156	Input-Output Stability of Networked Control Systems With Stochastic Protocols and Channels. <i>IEEE Transactions on Automatic Control</i> , 2008 , 53, 1160-1175	5.9	138
155	A framework for nonlinear sampled-data observer design via approximate discrete-time models and emulation. <i>Automatica</i> , 2004 , 40, 1931-1938	5.7	137
154	Open- and Closed-Loop Dissipation Inequalities Under Sampling and Controller Emulation. <i>European Journal of Control</i> , 2002 , 8, 109-125	2.5	135
153	Input-to-State Stability of Packetized Predictive Control Over Unreliable Networks Affected by Packet-Dropouts. <i>IEEE Transactions on Automatic Control</i> , 2011 , 56, 370-375	5.9	132

152	On global extremum seeking in the presence of local extrema. <i>Automatica</i> , 2009 , 45, 245-251	5.7	122
151	On the choice of dither in extremum seeking systems: A case study. <i>Automatica</i> , 2008 , 44, 1446-1450	5.7	119
150	. <i>IEEE Transactions on Automatic Control</i> , 2003 , 48, 1526-1544	5.9	119
149	. <i>IEEE Transactions on Automatic Control</i> , 2007 , 52, 1615-1630	5.9	118
148	Lyapunov-based continuous-time nonlinear controller redesign for sampled-data implementation. <i>Automatica</i> , 2005 , 41, 1143-1156	5.7	110
147	A note on input-to-state stabilization for nonlinear sampled-data systems. <i>IEEE Transactions on Automatic Control</i> , 2002 , 47, 1153-1158	5.9	93
146	Robust stability of packetized predictive control of nonlinear systems with disturbances and Markovian packet losses. <i>Automatica</i> , 2012 , 48, 1803-1811	5.7	89
145	Quadratic stabilization of linear networked control systems via simultaneous protocol and controller design. <i>Automatica</i> , 2007 , 43, 1145-1155	5.7	83
144	Stabilization of sampled-data nonlinear systems via backstepping on their Euler approximate model. <i>Automatica</i> , 2006 , 42, 1801-1808	5.7	79
143	Event-triggered tracking control of unicycle mobile robots. <i>Automatica</i> , 2015 , 52, 302-308	5.7	78
142	Stability and Performance of SISO Control Systems With First-Order Reset Elements. <i>IEEE Transactions on Automatic Control</i> , 2011 , 56, 2567-2582	5.9	78
141	Event-triggered transmission for linear control over communication channels. <i>Automatica</i> , 2014 , 50, 490-498	5.7	76
140	Packetized Predictive Control of Stochastic Systems Over Bit-Rate Limited Channels With Packet Loss. <i>IEEE Transactions on Automatic Control</i> , 2011 , 56, 2854-2868	5.9	75
139	Tracking Control for Nonlinear Networked Control Systems. <i>IEEE Transactions on Automatic Control</i> , 2014 , 59, 1539-1554	5.9	71
138	Optimization-Based Stabilization of Sampled-Data Nonlinear Systems via Their Approximate Discrete-Time Models. <i>SIAM Journal on Control and Optimization</i> , 2003 , 42, 98-122	1.9	69
137	A discrete-time framework for stability analysis of nonlinear networked control systems. <i>Automatica</i> , 2012 , 48, 1144-1153	5.7	66
136	Unified frameworks for sampled-data extremum seeking control: Global optimisation and multi-unit systems. <i>Automatica</i> , 2013 , 49, 2720-2733	5.7	66
135	Lyapunov-Based Small-Gain Theorems for Hybrid Systems. <i>IEEE Transactions on Automatic Control</i> , 2014 , 59, 1395-1410	5.9	62

134	Event-triggered and self-triggered stabilization of distributed networked control systems 2011 ,		54
133	A Framework for Extremum Seeking Control of Systems With Parameter Uncertainties. <i>IEEE Transactions on Automatic Control</i> , 2013 , 58, 435-448	5.9	53
132	A unifying Lyapunov-based framework for the event-triggered control of nonlinear systems 2011 ,		53
131	A Framework for the Observer Design for Networked Control Systems. <i>IEEE Transactions on Automatic Control</i> , 2012 , 57, 1309-1314	5.9	53
130	A unifying approach to extremum seeking: Adaptive schemes based on estimation of derivatives 2010 ,		51
129	Analytical and numerical Lyapunov functions for SISO linear control systems with first-order reset elements. <i>International Journal of Robust and Nonlinear Control</i> , 2011 , 21, 1134-1158	3.6	47
128	Extremum Seeking Control: Convergence Analysis. <i>European Journal of Control</i> , 2009 , 15, 331-347	2.5	47
127	anti-windup for linear dead-time systems. <i>Systems and Control Letters</i> , 2005 , 54, 1205-1217	2.4	47
126	Input-to-State Stability for Nonlinear Time-Varying Systems via Averaging. <i>Mathematics of Control, Signals, and Systems</i> , 2001 , 14, 257-280	1.3	45
125	Electrical probing of cortical excitability in patients with epilepsy. <i>Epilepsy and Behavior</i> , 2011 , 22 Suppl 1, S110-8	3.2	41
124	Periodic Event-Triggered Control for Nonlinear Networked Control Systems. <i>IEEE Transactions on Automatic Control</i> , 2020 , 65, 620-635	5.9	40
123	Extremum-seeking control for nonlinear systems with periodic steady-state outputs. <i>Automatica</i> , 2013 , 49, 1883-1891	5.7	38
122	A receding horizon control approach to sampled-data implementation of continuous-time controllers. <i>Systems and Control Letters</i> , 2006 , 55, 660-672	2.4	38
121	Iterative learning control based on extremum seeking. <i>Automatica</i> , 2016 , 66, 238-245	5.7	37
120	Discrete-time Lyapunov-based small-gain theorem for parameterized interconnected ISS systems. <i>IEEE Transactions on Automatic Control</i> , 2003 , 48, 1783-1788	5.9	36
119	Packetized MPC with dynamic scheduling constraints and bounded packet dropouts. <i>Automatica</i> , 2014 , 50, 784-797	5.7	35
118	Multidimensional global extremum seeking via the DIRECT optimisation algorithm. <i>Automatica</i> , 2013 , 49, 1970-1978	5.7	35
117	Robustness of quantized control systems with mismatch between coder/decoder initializations. <i>Automatica</i> , 2009 , 45, 817-822	5.7	35

116	Changing supply rates for input-output to state stable discrete-time nonlinear systems with applications. <i>Automatica</i> , 2003 , 39, 821-835	5.7	35
115	Observer design for wired linear networked control systems using matrix inequalities. <i>Automatica</i> , 2008 , 44, 2840-2848	5.7	34
114	A non-gradient approach to global extremum seeking: An adaptation of the Shubert algorithm. <i>Automatica</i> , 2013 , 49, 809-815	5.7	33
113	A robust circle criterion observer with application to neural mass models. <i>Automatica</i> , 2012 , 48, 2986-2989	5.7	33
112	Dead beat controllability of polynomial systems: symbolic computation approaches. <i>IEEE Transactions on Automatic Control</i> , 1998 , 43, 162-175	5.9	31
111	. <i>IEEE Transactions on Automatic Control</i> , 2004 , 49, 875-887	5.9	31
110	Analysis for a class of singularly perturbed hybrid systems via averaging. <i>Automatica</i> , 2012 , 48, 1057-1066	5.7	30
109	Lyapunov functions for time-varying systems satisfying generalized conditions of Matrosov theorem. <i>Mathematics of Control, Signals, and Systems</i> , 2007 , 19, 151-182	1.3	30
108	On finite gain Lp stability of nonlinear sampled-data systems. <i>Systems and Control Letters</i> , 2003 , 49, 201-212	5.7	29
107	Analysis of input-to-state stability for discrete time nonlinear systems via dynamic programming. <i>Automatica</i> , 2005 , 41, 2055-2065	5.7	29
106	Changing supply functions in input to state stable systems: the discrete-time case. <i>IEEE Transactions on Automatic Control</i> , 2001 , 45, 960-962	5.9	29
105	Multi-agent source seeking via discrete-time extremum seeking control. <i>Automatica</i> , 2014 , 50, 2312-2320	5.7	28
104	Non-linear stable inversion-based output tracking control for a spherical inverted pendulum. <i>International Journal of Control</i> , 2008 , 81, 116-133	1.5	28
103	Integral versions of iss for sampled-data nonlinear systems via their approximate discrete-time models. <i>IEEE Transactions on Automatic Control</i> , 2002 , 47, 2033-2037	5.9	28
102	Finite-gain Lp stability for hybrid dynamical systems. <i>Automatica</i> , 2013 , 49, 2384-2396	5.7	27
101	. <i>IEEE Transactions on Control Systems Technology</i> , 2008 , 16, 396-407	4.8	27
100	Input-to-State Stability and Averaging of Linear Fast Switching Systems. <i>IEEE Transactions on Automatic Control</i> , 2010 , 55, 1274-1279	5.9	26
99	On extremum seeking in bioprocesses with multivalued cost functions. <i>Biotechnology Progress</i> , 2009 , 25, 683-9	2.8	26

98	Parameter and State Estimation of Nonlinear Systems Using a Multi-Observer Under the Supervisory Framework. <i>IEEE Transactions on Automatic Control</i> , 2015 , 60, 2336-2349	5.9	25
97	Networked and quantized control systems with communication delays 2009 ,		25
96	Continuous-time controller redesign for digital implementation: A trajectory based approach. <i>Automatica</i> , 2008 , 44, 225-232	5.7	25
95	Model Reduction of Turbocharged (TC) Spark Ignition (SI) Engines. <i>IEEE Transactions on Control Systems Technology</i> , 2011 , 19, 297-310	4.8	24
94	Dead-beat control of simple Hammerstein models. <i>IEEE Transactions on Automatic Control</i> , 1998 , 43, 1184-1188	5.9	23
93	Matrosov theorem for parameterized families of discrete-time systems. <i>Automatica</i> , 2004 , 40, 1025-1034	3.7	22
92	Minimum phase properties for input nonaffine nonlinear systems. <i>IEEE Transactions on Automatic Control</i> , 1999 , 44, 868-872	5.9	21
91	Strong Lyapunov functions for systems satisfying the conditions of La salle. <i>IEEE Transactions on Automatic Control</i> , 2004 , 49, 1026-1030	5.9	20
90	Averaging with disturbances and closeness of solutions. <i>Systems and Control Letters</i> , 2000 , 40, 317-323	2.4	20
89	Further results on stability of networked control systems: a Lyapunov approach. <i>Proceedings of the American Control Conference</i> , 2007 ,	1.2	19
88	. <i>IEEE Transactions on Automatic Control</i> , 2005 , 50, 1681-1697	5.9	19
87	Input to state set stability for pulse width modulated control systems with disturbances. <i>Systems and Control Letters</i> , 2004 , 51, 23-32	2.4	19
86	A note on observability tests for general polynomial and simple Wiener-Hammerstein systems. <i>Systems and Control Letters</i> , 1998 , 35, 219-227	2.4	18
85	On emulated nonlinear reduced-order observers for networked control systems. <i>Automatica</i> , 2012 , 48, 645-652	5.7	17
84	On uniform boundedness of parameterized discrete-time systems with decaying inputs: applications to cascades. <i>Systems and Control Letters</i> , 2003 , 49, 163-174	2.4	17
83	Reset passivation of nonlinear controllers via a suitable time-regular reset map. <i>Automatica</i> , 2011 , 47, 2099-2106	5.7	16
82	. <i>Journal of Lightwave Technology</i> , 2008 , 26, 1653-1660	4	16
81	On \mathcal{L}_2 Stabilization of Linear Systems With Quantized Control. <i>IEEE Transactions on Automatic Control</i> , 2008 , 53, 399-405	5.9	16

80	A Lyapunov-based small-gain theorem for hybrid ISS systems 2008 ,		16
79	Non-local stabilization of a spherical inverted pendulum. <i>International Journal of Control</i> , 2008 , 81, 1035-1053		16
78	Path-Following for Nonlinear Systems With Unstable Zero Dynamics. <i>IEEE Transactions on Automatic Control</i> , 2007 , 52, 481-487	5.9	16
77	On controller & capacity allocation co-design for networked control systems. <i>Systems and Control Letters</i> , 2009 , 58, 672-676	2.4	15
76	Lazy sensors for the scheduling of measurement samples transmission in linear closed loops over networks 2010 ,		14
75	Input-to-state stabilization of linear systems with positive outputs. <i>Systems and Control Letters</i> , 1998 , 35, 245-255	2.4	14
74	Output Dead Beat Control for a Class of Planar Polynomial Systems. <i>SIAM Journal on Control and Optimization</i> , 1998 , 36, 253-272	1.9	14
73	Stability Analysis of Hybrid Systems Via Small-Gain Theorems. <i>Lecture Notes in Computer Science</i> , 2006 , 421-435	0.9	14
72	Controllability for a class of simple Wiener-Hammerstein systems. <i>Systems and Control Letters</i> , 1999 , 36, 51-59	2.4	14
71	Input-output stability with input-to-state stable protocols for quantized and networked control systems 2008 ,		13
70	Input-Output Stability of Wireless Networked Control Systems		13
69	Decentralized control design of interconnected chains of integrators: A case study. <i>Automatica</i> , 2008 , 44, 2171-2178	5.7	12
68	Estimating the unmeasured membrane potential of neuronal populations from the EEG using a class of deterministic nonlinear filters. <i>Journal of Neural Engineering</i> , 2012 , 9, 026001	5	11
67	A systematic approach to extremum seeking based on parameter estimation 2010 ,		10
66	Robustness of nonlinear control systems with quantized feedback. <i>Nonlinear Analysis: Hybrid Systems</i> , 2010 , 4, 306-318	4.5	10
65	Dynamic practical stabilization of sampled-data linear distributed parameter systems 2009 ,		9
64	A small-gain approach to stability analysis of hybrid systems		9
63	On the Latency, Rate, and Reliability Tradeoff in Wireless Networked Control Systems for IIoT. <i>IEEE Internet of Things Journal</i> , 2021 , 8, 723-733	10.7	9

62	Input-to-state stability for a class of hybrid dynamical systems via averaging. <i>Mathematics of Control, Signals, and Systems</i> , 2012 , 23, 223-256	1.3	8
61	Path Following for Nonlinear Systems With Unstable Zero Dynamics: An Averaging Solution. <i>IEEE Transactions on Automatic Control</i> , 2011 , 56, 880-886	5.9	8
60	New stability criteria for switched time-varying systems: Output-persistently exciting conditions 2011 ,		8
59	Non-linear automatic target tracking in clutter using dynamic Gaussian mixture. <i>IET Radar, Sonar and Navigation</i> , 2012 , 6, 937-944	1.4	8
58	A note on dead-beat controllability of generalised Hammerstein systems. <i>Systems and Control Letters</i> , 1997 , 29, 223-231	2.4	8
57	Input-to-state stabilization of linear systems with quantized feedback		8
56	A note on input-to-state stability and averaging of systems with inputs. <i>IEEE Transactions on Automatic Control</i> , 2001 , 46, 1760-1765	5.9	8
55	Power characterizations of input-to-state stability and integral input-to-state stability. <i>IEEE Transactions on Automatic Control</i> , 2001 , 46, 1298-1303	5.9	8
54	Model Predictive Control for Nonlinear Sampled-Data Systems 2007 , 105-113		8
53	Uniting Observers. <i>IEEE Transactions on Automatic Control</i> , 2020 , 65, 2867-2882	5.9	8
52	A neural mass model of spontaneous burst suppression and epileptic seizures. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2013 , 2013, 5942-5	0.9	7
51	Idle speed control using linear time varying model predictive control and discrete time approximations 2010 ,		7
50	Averaging in singularly perturbed hybrid systems with hybrid boundary layer systems 2012 ,		7
49	A unified approach to controller design for systems with quantization and time scheduling 2007 ,		7
48	Adaptive Scan for Atomic Force Microscopy Based on Online Optimization: Theory and Experiment. <i>IEEE Transactions on Control Systems Technology</i> , 2020 , 28, 869-883	4.8	7
47	Finite-Horizon Discounted Optimal Control: Stability and Performance. <i>IEEE Transactions on Automatic Control</i> , 2021 , 66, 550-565	5.9	7
46	Extremum-seeking control for periodic steady-state response optimization 2012 ,		6
45	Summability characterizations of uniform exponential and asymptotic stability of sets for difference inclusions. <i>Journal of Difference Equations and Applications</i> , 2010 , 16, 173-194	1	6

44	A unifying framework for analysis and design of extremum seeking controllers 2012,		6
43	Stability of Networked Control Systems with Stochastic Protocols. <i>Proceedings of the American Control Conference, 2007,</i>	1.2	6
42	. <i>IEEE Transactions on Control of Network Systems, 2021, 8, 475-486</i>	4	6
41	Sampled Data Model Predictive Idle Speed Control of Ultra-Lean Burn Hydrogen Engines. <i>IEEE Transactions on Control Systems Technology, 2013, 21, 538-545</i>	4.8	5
40	Correlated Doppler-assisted target tracking in clutter. <i>IET Radar, Sonar and Navigation, 2013, 7, 94-100</i>	1.4	5
39	Stability analysis for nonlinear Networked Control Systems: A discrete-time approach 2010,		5
38	Redesign Techniques for Nonlinear Sampled-data Systems (Entwurfstechniken für nichtlineare Abtastsysteme). <i>Automatisierungstechnik, 2008, 56, 38-48</i>	0.8	5
37	2008,		5
36	Practical encoders for controlling nonlinear systems under communication constraints. <i>Systems and Control Letters, 2008, 57, 654-662</i>	2.4	5
35	Set-point stabilization of SISO linear systems using First Order Reset Elements. <i>Proceedings of the American Control Conference, 2007,</i>	1.2	5
34	Stabilizability and dead-beat controllers for two classes of Wiener-Hammerstein models. <i>IEEE Transactions on Automatic Control, 1999, 44, 2068-2071</i>	5.9	5
33	Controllability of structured polynomial systems. <i>IEEE Transactions on Automatic Control, 1999, 44, 761-764</i>	5.9	5
32	Stabilization of Non-Linear Networked Control Systems Closed Over a Lossy WirelessHART Network 2019, 3, 996-1001		4
31	Practical stability of approximating discrete-time filters with respect to model mismatch. <i>Automatica, 2012, 48, 2965-2970</i>	5.7	4
30	Parameter and state estimation for a class of neural mass models 2012,		4
29	Small-gain theorems of LaSalle type for hybrid systems 2012,		4
28	PWM hybrid control systems: averaging tools for analysis and design 2010,		4
27	On Stability of Sets for Sampled-Data Nonlinear Inclusions via Their Approximate Discrete-Time Models and Summability Criteria. <i>SIAM Journal on Control and Optimization, 2009, 48, 1888-1913</i>	1.9	4

26	A Trajectory-Based Approach for the Stability Robustness of Nonlinear Systems with Inputs. <i>Mathematics of Control, Signals, and Systems</i> , 2002 , 15, 336-355	1.3	4
25	An Average Allowable Transmission Interval Condition for the Stability of Networked Control Systems. <i>IEEE Transactions on Automatic Control</i> , 2021 , 66, 2526-2541	5.9	4
24	Correction to Packetized Predictive Control of Stochastic Systems Over Bit-Rate Limited Channels With Packet Loss. <i>IEEE Transactions on Automatic Control</i> , 2013 , 58, 1869-1872	5.9	3
23	Novel results in averaging analysis of singularly perturbed hybrid systems 2011 ,		3
22	A linear quadratic Gaussian framework for optimal networked control system design 2008 ,		3
21	Lyapunov functions for time varying systems satisfying generalized conditions of Matrosov theorem		3
20	Output feedback stabilization of a class of Wiener systems. <i>IEEE Transactions on Automatic Control</i> , 2000 , 45, 1727-1731	5.9	3
19	Controllability for a Class of Parallely Connected Polynomial Systems. <i>Mathematics of Control, Signals, and Systems</i> , 1999 , 12, 270-294	1.3	3
18	Tuning of multivariable model predictive controllers through expert bandit feedback. <i>International Journal of Control</i> , 2020 , 1-9	1.5	2
17	On emulation-based observer design for networked control systems 2010 ,		2
16	Emulation-based tracking solutions for nonlinear networked control systems 2012 ,		2
15	Further results on robustness of linear control systems with quantized feedback. <i>Proceedings of the American Control Conference</i> , 2007 ,	1.2	2
14			2
13	Model predictive sampled-data redesign for nonlinear systems		2
12	Two algorithms arising in analysis of polynomial models 1998 ,		2
11	. <i>IEEE Transactions on Automatic Control</i> , 2020 , 65, 2992-3006	5.9	1
10	Practical stability of approximating discrete-time filters with respect to model mismatch using relative entropy concepts 2011 ,		1
9	Model reduction of automotive engines using perturbation theory 2009 ,		1

8	Extremum seeking control of ill-defined exponential process 2011 ,		1
7	On a shubert algorithm-based global Extremum Seeking Scheme 2012 ,		1
6	Uniform practical asymptotic stability of time-varying parameterized discrete-time cascades		1
5	Scan Rate Adaptation for AFM Imaging Based on Performance Metric Optimization. <i>IEEE/ASME Transactions on Mechatronics</i> , 2020 , 25, 418-428	5.5	1
4	. <i>IEEE Transactions on Information Forensics and Security</i> , 2021 , 16, 2608-2620	8	1
3	Asynchronous Distributed Optimization via Dual Decomposition and Block Coordinate Subgradient Methods. <i>IEEE Transactions on Control of Network Systems</i> , 2021 , 8, 1348-1359	4	1
2	Stable near-optimal control of nonlinear switched discrete-time systems: an optimistic planning-based approach. <i>IEEE Transactions on Automatic Control</i> , 2021 , 1-1	5.9	0
1	On Joint Reconstruction of State and Input-Output Injection Attacks for Nonlinear Systems 2022 , 6, 554-559		