Denis Efimov

List of Publications by Year
in descending order

393 papers	7,502 citations	81900 39 h-index	76900 74 g-index
396 all docs	396 docs citations	396 times ranked	2674 citing authors

#	Article	IF	Citations
1	A High-Order Sliding-Mode Adaptive Observer for Uncertain Nonlinear Systems. IEEE Transactions on Automatic Control, 2023, 68, 408-415.	5.7	2
2	State observation in microbial consortia: A case study on a synthetic producerâ€cleaner consortium. International Journal of Robust and Nonlinear Control, 2023, 33, 5011-5022.	3.7	1
3	On stability of mechanical systems with homogeneous and delayed forces. International Journal of Control, 2023, 96, 1859-1866.	1.9	0
4	On robustness of finite-time stability of homogeneous affine nonlinear systems and cascade interconnections. International Journal of Control, 2022, 95, 768-778.	1.9	5
5	Using a quadrotor as wind sensor: time-varying parameter estimation algorithms. International Journal of Control, 2022, 95, 126-137.	1.9	5
6	A Robust Nonlinear Model Reference Adaptive Control for Disturbed Linear Systems: An LMI Approach. IEEE Transactions on Automatic Control, 2022, 67, 1937-1943.	5.7	9
7	Conditions of Self-Oscillations in Generalized Persidskii Systems. IEEE Transactions on Automatic Control, 2022, 67, 1514-1520.	5.7	0
8	Practical Realization of Implicit Homogeneous Controllers for Linearized Systems. IEEE Transactions on Industrial Electronics, 2022, 69, 5142-5151.	7.9	3
9	Fixed-time and finite-time stability of switched time-delay systems. International Journal of Control, 2022, 95, 2780-2792.	1.9	4
10	Stability analysis of Persidskii timeâ€delay systems with synchronous and asynchronous switching. International Journal of Robust and Nonlinear Control, 2022, 32, 3266-3280.	3.7	3
11	Robust Output Feedback MPC for LPV Systems Using Interval Observers. IEEE Transactions on Automatic Control, 2022, 67, 3188-3195.	5.7	14
12	Robust output feedback model predictive control for constrained linear systems via interval observers. Automatica, 2022, 135, 109951.	5.0	10
13	On Input-to-Output Stability and Robust Synchronization of Generalized Persidskii Systems. IEEE Transactions on Automatic Control, 2022, 67, 5578-5585.	5.7	2
14	Robust output feedback model predictive control of timeâ€delayed systems using interval observers. International Journal of Robust and Nonlinear Control, 2022, 32, 1180-1193.	3.7	6
15	On Computer Mouse Pointing Model Online Identification and Endpoint Prediction. IEEE Transactions on Human-Machine Systems, 2022, 52, 941-951.	3.5	1
16	On convergence conditions for generalized Persidskii systems. International Journal of Robust and Nonlinear Control, 2022, 32, 3696-3713.	3.7	2
17	On Biased Harmonic Signal Estimation: Application to Electric Power Grid Monitoring. IEEE Transactions on Control Systems Technology, 2022, 30, 2743-2750.	5.2	7
18	Adaptive finiteâ€time and fixedâ€time control design usingÂoutput stability conditions. International Journal of Robust and Nonlinear Control, 2022, 32, 6361-6378.	3.7	4

#	Article	IF	Citations
19	On nonlinear robust state estimation for generalized Persidskii systems. Automatica, 2022, 142, 110411.	5.0	3
20	Practical fixed-time ISS of neutral time-delay systems with application to stabilization by using delays. Automatica, 2022, 143, 110455.	5.0	6
21	Analysis of robustness of homogeneous systems with time delays using Lyapunovâ€Krasovskii functionals. International Journal of Robust and Nonlinear Control, 2021, 31, 3730-3746.	3.7	19
22	A polytopic strategy for improved non-asymptotic robust control via implicit Lyapunov functions. Nonlinear Analysis: Hybrid Systems, 2021, 39, 100988.	3.5	1
23	Lyapunovâ€based consistent discretization of stable homogeneous systems. International Journal of Robust and Nonlinear Control, 2021, 31, 3587-3605.	3.7	5
24	Adaptive estimation for uncertain nonlinear systems with measurement noise: A slidingâ€mode observer approach. International Journal of Robust and Nonlinear Control, 2021, 31, 3809-3826.	3.7	13
25	Interval observer design for sequestered erythrocytes concentration estimation in severe malaria patients. European Journal of Control, 2021, 58, 399-407.	2.6	1
26	Output global oscillatory synchronisation of heterogeneous systems. International Journal of Control, 2021, 94, 1982-1993.	1.9	1
27	Lyapunov–Krasovskii Functional for Discretized Homogeneous Systems. SIAM Journal on Control and Optimization, 2021, 59, 2546-2569.	2.1	1
28	A Simple Frequency Estimator for Power Systems. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-2.	4.7	7
29	On an interval prediction of COVID-19 development based on a SEIR epidemic model. Annual Reviews in Control, 2021, 51, 477-487.	7.9	46
30	On necessary and sufficient conditions for output finite-time stability. Automatica, 2021, 125, 109427.	5.0	7
31	Multipleâ€input multipleâ€output homogeneous integral control design using the implicit Lyapunov function approach. International Journal of Robust and Nonlinear Control, 2021, 31, 3417-3438.	3.7	5
32	Numerical design of Lyapunov functions for a class of homogeneous discontinuous systems. International Journal of Robust and Nonlinear Control, 2021, 31, 3708-3729.	3.7	1
33	On finite/fixed-time stability analysis based on sup- and sub-homogeneous extensions. Systems and Control Letters, 2021, 150, 104893.	2.3	3
34	On robust synchronization of nonlinear systems with application to grid integration of renewable energy sources. Annual Reviews in Control, 2021, 52, 213-221.	7.9	2
35	Non-parametric identification of homogeneous dynamical systems. Automatica, 2021, 129, 109600.	5.0	2
36	Switched observer design for a class of locally unobservable time-varying systems. Automatica, 2021, 130, 109715.	5.0	3

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37	State observation of LTV systems with delayed measurements: A parameter estimation-based approach with fixed convergence time. Automatica, 2021, 131, 109674.	5.0	9
38	Stability analysis of switched homogeneous time-delay systems under synchronous and asynchronous commutation. Nonlinear Analysis: Hybrid Systems, 2021, 42, 101090.	3.5	6
39	Distributed Observers With Time-Varying Delays. IEEE Transactions on Automatic Control, 2021, 66, 5354-5361.	5.7	11
40	Robust Adaptive Stabilization by Delay Under State Parametric Uncertainty and Measurement Bias. IEEE Transactions on Automatic Control, 2021, 66, 5459-5466.	5.7	1
41	On analysis of Persidskii systems and their implementations using LMIs. Automatica, 2021, 134, 109905.	5.0	7
42	State Observation of Affine-in-the-States Time-Varying Systems with Unknown Parameters and Delayed Measurements. IFAC-PapersOnLine, 2021, 54, 108-113.	0.9	2
43	On Convex Embedding and Control Design for Nonlinear Homogeneous Systems [*]. , 2021, , .		0
44	Convergence conditions for Persidskii systems. , 2021, , .		2
45	Finite-time stabilization under state constraints. , 2021, , .		3
46	On finite-time stability analysis of homogeneous Persidskii systems using LMIs. , 2021, , .		0
47	Design of Interval Observers for Uncertain Linear Impulsive Systems. , 2021, , .		1
48	Blood Glucose Regulation in Patients with Type 1 Diabetes Mellitus: A Robust MRAC Approach. , 2021, , .		1
49	On energetically optimal finite-time stabilization. , 2021, , .		2
50	A Globally Convergent Adaptive Indirect Fieldâ€Oriented Torque Controller for Induction Motors. Asian Journal of Control, 2020, 22, 11-24.	3.0	2
51	Gramian-based uniform convergent observer for stable LTV systems with delayed measurements. International Journal of Control, 2020, 93, 226-237.	1.9	15
52	A switched dynamic model for pointing tasks with a computer mouse. Asian Journal of Control, 2020, 22, 1387-1400.	3.0	8
53	On simple scheme of finite/fixed-time control design. International Journal of Control, 2020, 93, 1353-1361.	1.9	23
54	Comments on â€˜Differentiator application in altitude control for an indoor blimp robotâ€™. International Journal of Control, 2020, 93, 1218-1219.	1.9	2

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55	Fixed-time estimation of parameters for non-persistent excitation. European Journal of Control, 2020, 55, 24-32.	2.6	22
56	On Robust Parameter Estimation in Finite-Time Without Persistence of Excitation. IEEE Transactions on Automatic Control, 2020, 65, 1731-1738.	5.7	42
57	Interval observer design and control of uncertain non-homogeneous heat equations. Automatica, 2020, 111, 108595.	5.0	13
58	The Implicit Discretization of the Supertwisting Sliding-Mode Control Algorithm. IEEE Transactions on Automatic Control, 2020, 65, 3707-3713.	5.7	66
59	Disturbance compensation based controller for an indoor blimp robot. Robotics and Autonomous Systems, 2020, 124, 103402.	5.1	8
60	Finite-time and fixed-time input-to-state stability: Explicit and implicit approaches. Systems and Control Letters, 2020, 144, 104775.	2.3	24
61	Special issue on interval estimation applied to diagnosis and control of uncertain systems. International Journal of Control, 2020, 93, 2525-2527.	1.9	5
62	Discrete-time homogeneity: Robustness and approximation. Automatica, 2020, 122, 109275.	5.0	2
63	Homogeneity of neutral systems and accelerated stabilization of a double integrator by measurement of its position. Automatica, 2020, 118, 109023.	5.0	5
64	Robust adaptive estimation in the competitive chemostat. Computers and Chemical Engineering, 2020, 142, 107030.	3.8	1
65	On estimation of rates of convergence in Lyapunovâ€“Razumikhin approach. Automatica, 2020, 116, 108928.	5.0	18
66	Converse Lyapunovâ€“Krasovskii theorem for ISS of neutral systems in Sobolev spaces. Automatica, 2020, 118, 109042.	5.0	11
67	A simple finite-time distributed observer design for linear time-invariant systems. Systems and Control Letters, 2020, 141, 104707.	2.3	27
68	Robust feedback stabilisation of homogeneous differential inclusions. International Journal of Control, 2020, , 1-9.	1.9	2
69	Robust Feedback Stabilization of Linear MIMO Systems Using Generalized Homogenization. IEEE Transactions on Automatic Control, 2020, 65, 5429-5436.	5.7	43
70	Special Issue on â€œFinite-time estimation, diagnosis and synchronization of uncertain systemsâ€• European Journal of Control, 2020, 55, 1-2.	2.6	0
71	Robust stabilization of competing species in the chemostat. Journal of Process Control, 2020, 87, 138-146.	3.3	1
72	On robustness against disturbances of passive systems with multiple invariant sets. International Journal of Control, 2020, , 1-13.	1.9	0

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73	On finite-time stability of sub-homogeneous differential inclusions. IFAC-PapersOnLine, 2020, 53, 5883-5888.	0.9	2
74	On fixed-time stability of a class of nonlinear time-varying systems. IFAC-PapersOnLine, 2020, 53, 6358-6363.	0.9	4
75	A Lyapunov-Razumikhin Condition of ISS for Switched Time-Delay Systems Under Average Dwell Time Commutation. IFAC-PapersOnLine, 2020, 53, 1986-1991.	0.9	2
76	State estimation for a locally unobservable parameter-varying system: one gradient-based and one switched solutions. IFAC-PapersOnLine, 2020, 53, 578-583.	0.9	1
77	Observer-Based Robust Control of a Continuous Bioreactor with Heterogeneous Community. IFAC-PapersOnLine, 2020, 53, 11800-11805.	0.9	2
78	Detection of signs of Parkinsonâ€™s disease using dynamical features via an indirect pointing device. IFAC-PapersOnLine, 2020, 53, 16347-16352.	0.9	0
79	Estimation in uncertain switched systems using a bank of interval observers: local vs glocal approach. IFAC-PapersOnLine, 2020, 53, 4701-4706.	0.9	0
80	On finite-time stabilization of a class of nonlinear time-delay systems: Implicit Lyapunov-Razumikhin approach. , 2020, , .		4
81	Robust Output Feedback MPC: An Interval-Observer Approach. , 2020, , .		8
82	Analysis of Singular Perturbations for a Class of Interconnected Homogeneous Systems: Input-to-State Stability Approach. IFAC-PapersOnLine, 2020, 53, 6416-6421.	0.9	2
83	Event-triggered Data-efficient Observers of Perturbed Systems. IFAC-PapersOnLine, 2020, 53, 2820-2825.	0.9	2
84	Adaptive stabilization by delay with biased measurements. IFAC-PapersOnLine, 2020, 53, 1684-1689.	0.9	1
85	Model-based adaptive filtering of harmonic perturbations applied to high-frequency noninvasive valvometry. IFAC-PapersOnLine, 2020, 53, 16715-16720.	0.9	1
86	On existence of oscillations in Persidskii systems. IFAC-PapersOnLine, 2020, 53, 6305-6310.	0.9	1
87	Robust Stabilization of Control Affine Systems with Homogeneous Functions. IFAC-PapersOnLine, 2020, 53, 6311-6316.	0.9	4
88	Feedback synchronization in Persidskii systems. IFAC-PapersOnLine, 2020, 53, 2880-2884.	0.9	4
89	On output-based accelerated stabilization of a chain of integrators: Implicit Lyapunov-Krasovskii functional approach. IFAC-PapersOnLine, 2020, 53, 5982-5987.	0.9	5
90	Adaptive Discontinuous Control for Homogeneous Systems Approximated by Neural Networks. IFAC-PapersOnLine, 2020, 53, 7885-7890.	0.9	1

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91	A Consistent Discretisation method for Stable Homogeneous Systems based on Lyapunov Function. IFAC-PapersOnLine, 2020, 53, 5099-5104.	0.9	2
92	Homogeneous Observer Design for Linear MIMO Systems. IFAC-PapersOnLine, 2020, 53, 4576-4581.	0.9	4
93	A Note on Distributed Finite-Time Observers. IEEE Transactions on Automatic Control, 2019, 64, 759-766.	5.7	37
94	On Notions of Output Finite-Time Stability. , 2019, , .		2
95	An adaptive FIR filter for trajectory prediction and latency reduction in direct Humanâ€“Computer interactions. Control Engineering Practice, 2019, 91, 104093.	5.5	0
96	On robust stability of multistable passive systems. , 2019, , .		0
97	On Boundedness of Solutions of State Periodic Systems: A Multivariable Cell Structure Approach. IEEE Transactions on Automatic Control, 2019, 64, 4094-4104.	5.7	9
98	Design of a distributed finite-time observer using observability decompositions. , 2019, , .		3
99	Global synchronization analysis of droop-controlled microgridsâ€”A multivariable cell structure approach. Automatica, 2019, 109, 108550.	5.0	18
100	On finite-time stability of homogeneous systems with multiplicative bounded function. , 2019, , .		3
101	Discretization of homogeneous systems using Euler method with a state-dependent step. Automatica, 2019, 109, 108546.	5.0	13
102	Some characterizations of boundary time-varying feedbacks for fixed-time stabilization of reaction-diffusion systems. IFAC-PapersOnLine, 2019, 52, 162-167.	0.9	10
103	Conditions for fixed-time stability and stabilization of continuous autonomous systems. Systems and Control Letters, 2019, 129, 26-35.	2.3	61
104	Robustness of linear timeâ€varying systems with relaxed excitation. International Journal of Adaptive Control and Signal Processing, 2019, 33, 1885-1900.	4.1	11
105	Observer analysis and synthesis for perturbed Lipschitz systems under noisy time-varying measurements. Automatica, 2019, 106, 406-410.	5.0	10
106	Boundary time-varying feedbacks for fixed-time stabilization of constant-parameter reactionâ€“diffusion systems. Automatica, 2019, 103, 398-407.	5.0	76
107	A homogeneity property of discreteâ€time systems: Stability and convergence rates. International Journal of Robust and Nonlinear Control, 2019, 29, 2406-2421.	3.7	12
108	Robust stability analysis and implementation of Persidskii systems. , 2019, , .		18

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109	On Condition for Output Finite-Time Stability and Adaptive Finite-Time Control Scheme *. , 2019, , .		1
110	Robust Control of a Competitive Environment in the Chemostat using Discontinuous Control Laws. , 2019, , .		2
111	Integral Control Design using the Implicit Lyapunov Function Approach. , 2019, , .		7
112	Interval Prediction for Continuous-Time Systems with Parametric Uncertainties. , 2019, , .		8
113	Consistent Discretization of Locally Homogeneous Finite-time Stable Control Systems. , 2019, , .		0
114	Universal formula for robust stabilization of affine nonlinear multistable systems. , 2019, , .		1
115	Homogeneous Discrete-Time Approximation. IFAC-PapersOnLine, 2019, 52, 19-24.	0.9	4
116	Differential Neural Network Identification for Homogeneous Dynamical Systems. IFAC-PapersOnLine, 2019, 52, 233-238.	0.9	5
117	On Adaptive Estimation of Bacterial Growth in the Competitive Chemostat. IFAC-PapersOnLine, 2019, 52, 262-267.	0.9	1
118	A note on converse Lyapunov-Krasovskii theorems for nonlinear neutral systems in Sobolev spaces. IFAC-PapersOnLine, 2019, 52, 13-18.	0.9	2
119	Independent of delay stabilization using implicit Lyapunov function method. Automatica, 2019, 101, 103-110.	5.0	4
120	Stabilization of systems with switchings on the axis of their coordinates and its input-to-state properties. Nonlinear Analysis: Hybrid Systems, 2019, 32, 10-18.	3.5	4
121	Consistent Discretization of Finite-Time and Fixed-Time Stable Systems. SIAM Journal on Control and Optimization, 2019, 57, 78-103.	2.1	70
122	Robust output-feedback control for uncertain linear sampled-data systems: A 2D impulsive system approach. Nonlinear Analysis: Hybrid Systems, 2019, 32, 177-201.	3.5	7
123	Robust Global Synchronization of Brockett Oscillators. IEEE Transactions on Control of Network Systems, 2019, 6, 289-298.	3.7	10
124	Robust Finite-time stability of homogeneous systems with respect to multiplicative disturbances. , 2019, , .		5
125	Robustness of Delayed Multistable Systems. Advances in Delays and Dynamics, 2019, , 83-97.	0.4	0
126	Differentiator application in altitude control for an indoor blimp robot. International Journal of Control, 2018, 91, 2121-2130.	1.9	17

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127	Design of interval observers and controls for PDEs using finite-element approximations. Automatica, 2018, 93, 302-310.	5.0	19
128	Interval estimation for continuous-time switched linear systems. Automatica, 2018, 90, 230-238.	5.0	83
129	An adaptive slidingâ€mode observer for a class of uncertain nonlinear systems. International Journal of Adaptive Control and Signal Processing, 2018, 32, 511-527.	4.1	34
130	Stabilization of linear impulsive systems under dwell-time constraints: Interval observer-based framework. European Journal of Control, 2018, 42, 1-14.	2.6	16
131	Some recent results on the design and implementation of interval observers for uncertain systems. Automatisierungstechnik, 2018, 66, 213-224.	0.8	41
132	Supervisory acceleration of convergence for homogeneous systems. International Journal of Control, 2018, 91, 2524-2534.	1.9	5
133	Finite-time and fixed-time observer design: Implicit Lyapunov function approach. Automatica, 2018, 87, 52-60.	5.0	158
134	Robustness of Homogeneous and Homogeneizable Differential Inclusions. Studies in Systems, Decision and Control, 2018, , 39-56.	1.0	1
135	Convergence acceleration for observers by gain commutation. International Journal of Control, 2018, 91, 2009-2018.	1.9	9
136	Acceleration of finiteâ€time stable homogeneous systems. International Journal of Robust and Nonlinear Control, 2018, 28, 1757-1777.	3.7	10
137	Adaptive Estimation for Uncertain Nonlinear Systems: A Sliding-Mode Observer Approach. , 2018, , .		3
138	Comparison of the Time-Delay Margin of a Distributed and Centralized Observer. , 2018, , .		5
139	On State-Dependent Discretization of Stable Homogeneous Systems. , 2018, , .		1
140	Wind estimation algorithm for quadrotors using detailed aerodynamic coefficients. , 2018, , .		11
141	A Gramian-based observer with uniform convergence rate for delayed measurements. , 2018, , .		1
142	Robust Stability Under Relaxed Persistent Excitation Conditions. , 2018, , .		9
143	On Implicit Finite- Time and Fixed- Time ISS Lyapunov Functions. , 2018, , .		2
144	On Dynamical Feedback Control Design for Generalized Homogeneous Differential Inclusions. , 2018, , .		3

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145	On continuous boundary time-varying feedbacks for fixed-time stabilization of coupled reaction-diffusion systems. , 2018, , .		6
146	Almost Global Synchronization in Radial Multi-Machine Power Systems. , 2018, , .		6
147	Interval Observers for Secure Estimation in Cyber-Physical Systems. , 2018, , .		10
148	Control of Systems with Arbitrary Bounded Input Delay Using Implicit Lyapunov Function Technique*. , 2018, , .		1
149	Interval Estimation for Second-Order Delay Differential Equations with Delayed Measurements and Uncertainties. , 2018, , .		0
150	On Necessary and Sufficient Conditions for Fixed-Time Stability of Continuous Autonomous Systems. , 2018, , .		19
151	Consistent Discretization of Finite-time Stable Homogeneous Systems. , 2018, , .		14
152	On hyper-exponential output-feedback stabilization of a double integrator by using artificial delay. , 2018, , .		5
153	The implicit discretization of the super-twisting sliding-mode control algorithm. , 2018, , .		14
154	Homogeneous Lyapunov Functions: From Converse Design to Numerical Implementation. SIAM Journal on Control and Optimization, 2018, 56, 3454-3477.	2.1	12
155	A new criterion for boundedness of solutions for a class of periodic systems. , 2018, , .		4
156	Trajectory tracking for a quadrotor under wind perturbations: sliding mode control with state-dependent gains. Journal of the Franklin Institute, 2018, 355, 4809-4838.	3.4	50
157	On finiteâ€time robust stabilization via nonlinear state feedback. International Journal of Robust and Nonlinear Control, 2018, 28, 4951-4965.	3.7	15
158	Fixedâ€time output stabilization and fixedâ€time estimation of a chain of integrators. International Journal of Robust and Nonlinear Control, 2018, 28, 4647-4665.	3.7	35
159	Special issue on differentiators. International Journal of Control, 2018, 91, 1980-1982.	1.9	6
160	Next-Point Prediction for Direct Touch Using Finite-Time Derivative Estimation. , 2018, , .		14
161	Monitoring Biological Rhythms Through the Dynamic Model Identification of an Oyster Population. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2017, 47, 939-949.	9.3	7
162	Finite-time obstacle avoidance for unicycle-like robot subject to additive input disturbances. Autonomous Robots, 2017, 41, 19-30.	4.8	10

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163	Time-Varying Parameter Identification Algorithms: Finite and Fixed-Time Convergence. IEEE Transactions on Automatic Control, 2017, 62, 3671-3678.	5.7	79
164	Conditions for Almost Global Attractivity of a Synchronous Generator Connected to an Infinite Bus. IEEE Transactions on Automatic Control, 2017, 62, 4905-4916.	5.7	26
165	A note on delay robustness for homogeneous systems with negative degree. Automatica, 2017, 79, 178-184.	5.0	43
166	Realization and Discretization of Asymptotically Stable Homogeneous Systems. IEEE Transactions on Automatic Control, 2017, 62, 5962-5969.	5.7	52
167	A relaxed characterization of ISS for periodic systems with multiple invariant sets. European Journal of Control, 2017, 37, 1-7.	2.6	14
168	Identification, Estimation, and Control for Linear Uncertain Systems Using Measurements of Higher-Order Derivatives. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2017, 139, .	1.6	0
169	Nonlinear impulsive systems: 2D stability analysis approach. Automatica, 2017, 80, 32-40.	5.0	16
170	Relaxing the conditions of ISS for multistable periodic systems. IFAC-PapersOnLine, 2017, 50, 7217-7222.	0.9	2
171	Observer synthesis under time-varying sampling for Lipschitz nonlinear systems. Automatica, 2017, 85, 433-440.	5.0	32
172	An input-to-state stability approach to verify almost global stability of a synchronous-machine-infinite-bus system. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2017, 375, 20160304.	3.4	9
173	Feedback sensitivity functions analysis of finiteâ€time stabilizing control system. International Journal of Robust and Nonlinear Control, 2017, 27, 2475-2491.	3.7	10
174	Robust outputâ€control for uncertain linear systems: Homogeneous differentiatorâ€based observer approach. International Journal of Robust and Nonlinear Control, 2017, 27, 1895-1914.	3.7	14
175	A homogeneity property of a class of discrete-time systems. , 2017, , .		5
176	Altitude Control for an Indoor Blimp Robot. IFAC-PapersOnLine, 2017, 50, 15990-15995.	0.9	6
177	A Discontinuous Adaptive Sliding-Mode Observer for a Class of Uncertain Nonlinear Systems * *H. RAos gratefully acknowledge the financial support from CONA-CYT 270504. This work was also supported in part by HoTSMoCE Inria associate team program, by ANR Finite4SoS (ANR 15 CE23 0007), by the Government of Russian Federation (Grant 074-U01) and the Ministry of Education and Science of	0.9	0
178	Oscillatory Global Output Synchronization of Nonidentical Nonlinear Systems * *This work is partly supported by ANR project WaQMoS (ANR 15 CE 04 0002), by the Government of Russian Federation (Grant 074-U01) and the Ministry of Education and Science of Russian Federation (Project) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 132 Tc	0.9	3
179	Switched gain differentiator with fixed-time convergence. IFAC-PapersOnLine, 2017, 50, 7145-7150.	0.9	3
180	Robust Altitude and Attitude Sliding Mode Controllers for Quadrotors. IFAC-PapersOnLine, 2017, 50, 2720-2725.	0.9	15

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181	Observer analysis and synthesis for Lipschitz nonlinear systems under discrete time-varying measurements. IFAC-PapersOnLine, 2017, 50, 2941-2946.	0.9	4
182	On design of interval observers for parabolic PDEs. IFAC-PapersOnLine, 2017, 50, 4045-4050.	0.9	16
183	Interval Observer Approach to Output Stabilization of Linear Impulsive Systems 1 1This work was supported in part by the Government of Russian Federation (Grant 074-U01) and the Ministry of Education and Science of Russian Federation (Project 14.Z50.31.0031).. IFAC-PapersOnLine, 2017, 50, 5085-5090.	0.9	9
184	Interval Estimation for Linear Switched System * *This work was partially supported by the Government of Russian Federation (Grant 074-U01) and the Ministry of Education and Science of Russian Federation (Project 14.Z50.31.0031).. IFAC-PapersOnLine, 2017, 50, 6265-6270.	0.9	10
185	Experimental study of the robust global synchronization of Brockett oscillators. European Physical Journal: Special Topics, 2017, 226, 3199-3210.	2.6	8
186	A distributed finite-time observer for linear systems. , 2017, , .		3
187	On hyper exponential stabilization of linear state-delay systems. , 2017, , .		0
188	On numerical construction of homogeneous Lyapunov functions. , 2017, , .		1
189	On sliding mode control design for UAV using realistic aerodynamic coefficients. , 2017, , .		2
190	Robust synchronization of genetic oscillators subjected to cell division and common entrainment. , 2016, , .		1
191	On design of sampled-data interval observers. , 2016, , .		0
192	Finite-time and fixed-time observers design via implicit Lyapunov function. , 2016, , .		14
193	Robust and adaptive control using measurements of higher order derivatives. , 2016, , .		0
194	Discretization of asymptotically stable homogeneous systems by explicit and implicit euler methods. , 2016, , .		10
195	On acceleration of a class of asymptotically stable homogeneous systems. , 2016, , .		2
196	Modeling pointing tasks in mouse-based human-computer interactions. , 2016, , .		10
197	Interval observers for PDEs: approximation approach. IFAC-PapersOnLine, 2016, 49, 915-920.	0.9	8
198	Fixed-time output stabilization of a chain of integrators. , 2016, , .		12

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199	Observer-based control for linear sampled-data systems: An impulsive system approach. , 2016, , .		0
200	Finite-Time Identification Algorithm based on Time-Varying Homogeneity and Lyapunov Approach**This work was supported in part by the Government of Russian Federation (Grant 074-U01) and the Ministry of Education and Science of Russian Federation (Project 14.Z50.31.0031).. IFAC-PapersOnLine, 2016, 49, 434-439.	0.9	1
201	Time-delay Robustness Analysis for Systems with Negative Degree of Homogeneity**This work was supported in part by the Government of Russian Federation (Grant 074-U01) and the Ministry of Education and Science of Russian Federation (Project 14.Z50.31.0031).. IFAC-PapersOnLine, 2016, 49, 546-551.	0.9	1
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