Igor B Furtat

List of Publications by Year
in descending order

82 papers	397 citations	1039406 9 h-index	887659 17 g-index
84 all docs	84 docs citations	84 times ranked	130 citing authors

#	Article	IF	Citations
1	Output feedback control with disturbance compensation in nonlinear MIMO systems under measurement noises. Journal of Control and Decision, 2022, 9, 35-44.	0.7	0
2	Sampled-data in space nonlinear control of scalar semilinear parabolic and hyperbolic systems. Journal of the Franklin Institute, 2022, 359, 1176-1193.	1.9	1
3	Synchronization of multiâ€machine power systems under disturbances and measurement errors. International Journal of Adaptive Control and Signal Processing, 2022, 36, 1272-1284.	2.3	7
4	Divergence Method for Exponential Stability Study of Autonomous Dynamical Systems. IEEE Access, 2022, 10, 49088-49094.	2.6	1
5	Practical fixed-time ISS of neutral time-delay systems with application to stabilization by using delays. Automatica, 2022, 143, 110455.	3.0	6
6	Nonlinear feedback control providing plant output in given set. International Journal of Control, 2021, , 1-10.	1.2	5
7	Delayed Disturbance Attenuation via Measurement Noise Estimation. IEEE Transactions on Automatic Control, 2021, 66, 5546-5553.	3.6	2
8	Stability/Instability Study and Control of Autonomous Dynamical Systems: Divergence Method. IEEE Access, 2021, 9, 23764-23771.	2.6	2
9	Control of nonlinear systems with compensation of disturbances under measurement noises. International Journal of Control, 2020, 93, 1280-1290.	1.2	5
10	Stability study and control of nonautonomous dynamical systems based on divergence conditions. Journal of the Franklin Institute, 2020, 357, 13753-13765.	1.9	5
11	Tracking Control of Nonlinear Systems under Input and Output Disturbances with Applications. , 2020, , .		0
12	Compensation of Mismatched Disturbances in Nonlinear Systems. , 2020, , .		1
13	Divergent Stability Conditions of Dynamic Systems. Automation and Remote Control, 2020, 81, 247-257.	0.4	7
14	Sampled-data State-feedback Control under Disturbances and Measurement Noisesâ‹†. , 2020, , .		0
15	Divergence Conditions for Stability Study of Autonomous Nonlinear Systems. IFAC-PapersOnLine, 2020, 53, 6317-6320.	0.5	4
16	Modified Backstepping Algorithm with Disturbances Compensation for Nonlinear MIMO Systems. IFAC-PapersOnLine, 2020, 53, 6012-6018.	0.5	2
17	Control of Dynamical Systems with Given Restrictions on Output Signal with Application to Linear Systems. IFAC-PapersOnLine, 2020, 53, 6384-6389.	0.5	6
18	Feedback Control in the Presence of Input and Output Disturbances. IFAC-PapersOnLine, 2020, 53, 4593-4598.	0.5	2

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19	On output-based accelerated stabilization of a chain of integrators: Implicit Lyapunov-Krasovskii functional approach. IFAC-PapersOnLine, 2020, 53, 5982-5987.	0.5	5
20	Output Control of Linear Time-invariant Systems Under Input and Output Disturbances. IFAC-PapersOnLine, 2020, 53, 4534-4539.	0.5	3
21	Finiteâ€time sliding mode stabilization using dirty differentiation and disturbance compensation. International Journal of Robust and Nonlinear Control, 2019, 29, 793-809.	2.1	16
22	A Control Algorithm for an Object with Delayed Input Signal Based on Subpredictors of the Controlled Variable and Disturbance. Automation and Remote Control, 2019, 80, 201-216.	0.4	3
23	Finite Time Stabilization of Nonlinear Cascade Systems under Input and Output Disturbances. , 2019, , .		0
24	Tracking control algorithms for plants with input time-delays based on state and disturbance predictors and sub-predictors. Journal of the Franklin Institute, 2019, 356, 4496-4512.	1.9	2
25	Algorithms for Prediction of Smooth Bounded Signals. , 2019, , .		0
26	Modified Backstepping Algorithm for Plants under Mismatched Disturbances and Varying Time-Delay. , 2019, , .		0
27	Control study of multi-machine power systems under variations of mechanical input power and communication delay. Cybernetics and Physics, 2019, , 235-243.	0.2	0
28	Disturbance Compensation With Finite Spectrum Assignment for Plants With Input Delay. IEEE Transactions on Automatic Control, 2018, 63, 298-305.	3.6	35
29	Optimal Compensation of Bounded External Disturbances and Measurement Noises for Nonlinear Systems. IFAC-PapersOnLine, 2018, 51, 7-11.	0.5	0
30	Discrete-Time State Feedback Control Algorithm for Disturbances Compensation. , 2018, , .		0
31	An Algorithm to Control Nonlinear Systems in Perturbations and Measurement Noise. Automation and Remote Control, 2018, 79, 1207-1221.	0.4	3
32	Disturbance Compensation and Control Algorithm with Application for Non-linear Twin Rotor MIMO System. Advances in Intelligent Systems and Computing, 2018, , 428-435.	0.5	0
33	Investigation of electric generator robust algorithm under measurement noises. Cybernetics and Physics, 2018, , 204-209.	0.2	1
34	Event-triggered output robust controller. , 2017, , .		1
35	Algorithm to control linear plants with measurable quantized output. Automation and Remote Control, 2017, 78, 826-835.	0.4	5
36	Robust control of multi-agent nonlinear systems with unknown communication time delay. , 2017, , .		0

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37	Design of a control algorithm for objects with parametric uncertainty, disturbances, and input signal saturation. Automation and Remote Control, 2017, 78, 2178-2192.	0.4	2
38	State Feedback Finite Time Sliding Mode Stabilization Using Dirty Differentiation * *The results of Section 3 were developed under support of RSF (grant 14-29-00142) in IPME RAS. The results of Section 4 were developed under support of Russian Federation President Grant (No. 14.W01.16.6325-MD) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 Basic Research No. 17-08-01266, 17-08-01728 and Government of Russian Federation, Grant 074-U01..	0.5	1
39	IFAC-PapersOnLine, 2017, 50, 9624 were developed under support of RSF (grant 14-29-00142) in IPME RAS. The results of Section 4 were supported solely by the Russian Federation President Grant (No. 14.W01.16.6325-MD (MD-6325.2016.8)). The other research were partially supported by grants of Russian Foundation for Basic Research No. 17-08-01266, 17-08-01728, Ministry of Education and Science of Russian Federation (Project 14.Z50.31.0031)	0.5	1
40	Simple Adaptive Algorithm for Plants with Input Delay and Disturbances * *The results of Section 3 was developed under support of RSF (grant 14-29-00142) in IPME RAS. The results of Section 4 and Section 5 were supported solely by the Russian Federation President Grant (No. 14.W01.16.6325-MD) Tj ETQq0 0 0 rgBT /Overlock 10 T Basic Research No. 16-08-00282, No. 16-08-00686, 17-08-01266, Ministry of Education and Science of		

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55	Control of multi-machine power systems with constant communication time-delay. , 2016, , .		0
56	Robust Control of Uncertain Linear Plants in Conditions of Signal Quantization and Time-delay. , 2016, , .		0
57	Adaptive Control of Aircraft Lateral Movement in Landing Mode11New algorithm for control of aircraft (Sec. 3) was developed under support of RNF (grant 14-29-00142) in IPME RAS. The other research were partially supported by grant of Russian Foundation for Basic Research N0 13-08-01014, 14-08-01015, Ministry of Education and Science of Russian Federation (Project 14.Z50.31.0031) and	0.5	1
58	Modified Backstepping Algorithm with Disturbances Compensation11New algorithm for control of nonlinear plants with mismatched disturbances (Sec. 3) was developed under support of RSF (grant) Tj ETQq0 0 0 rgBT /Overlock 10 Tf for Basic -08-01014, 14-08-01015, Ministry of Education and Science of Russian Federation (Project) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 1056-1061.	0.5	10
59	Compensation of disturbances in multi-machine power systems caused by perturbation of mechanical input power. , 2015, , .		2
60	Robust control of linear MIMO systems in conditions of parametric uncertainties, external disturbances and signal quantization. , 2015, , .		12
61	Robust control of uncertain linear systems in conditions of output quantizationâˆ—âˆ—This work was partially financially supported by Government of Russian Federation, Grant 074-U01 and by the Ministry of Education and Science of Russian Federation (Project 14.Z50.31.0031).. IFAC-PapersOnLine, 2015, 48, 843-847.	0.5	3
62	Compensation of disturbances for MIMO systems with quantized output. Automatica, 2015, 60, 239-244.	3.0	28
63	Robust control of multi-machine power systems with compensation of disturbances. International Journal of Electrical Power and Energy Systems, 2015, 73, 584-590.	3.3	12
64	Robust static control algorithm for linear objects. Automation and Remote Control, 2015, 76, 446-457.	0.4	5
65	Synchronization of dynamic network subjected to control input saturation11New algorithm for control of plants with saturated input signal (Sec. 3) was developed under support of RSF (grant) Tj ETQq1 1 0.784314 rgBT /Overloc for Basic N0 13-08-01014, 14-08-01015, Ministry of Education and Science of Russian Federation (Project) Tj ETQq1 1 0.784314 rgBT 527-533.	0.5	0
66	Control of nonlinear plant based on modified robust backstepping algorithm. , 2014, , .		3
67	Disturbances compensation in nonlinear dynamical networks with communication delay. , 2014, , .		0
68	Modified robust backstepping algorithm for plants with time delay. , 2014, , .		1
69	Robust synchronization of nonlinear dynamical networks with delay & disturbances. , 2014, , .		0
70	Robust control with disturbances compensation for plants with unknown dynamical order. , 2014, , .		5
71	Robust suboptimal control with disturbances compensation. , 2014, , .		4
72	Modified simple adaptive-robust backstepping algorithm. , 2014, , .		1

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73	Adaptive control of linear MIMO systems. , 2014, , .		3
74	Robust synchronization of linear dynamical networks with compensation of disturbances. International Journal of Robust and Nonlinear Control, 2014, 24, 2774-2784.	2.1	42
75	Robust control for a specific class of non-minimum phase dynamical networks. Journal of Computer and Systems Sciences International, 2014, 53, 33-46.	0.2	27
76	Robust Control of Dynamical Networks with Nonminimum Phase Agents 1. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 2582-2587.	0.4	0
77	Robust Control of Aircraft Lateral Movement 1. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 5199-5204.	0.4	3
78	Robust Control with Compensation of Disturbances for Systems with Quantized Output1. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 730-735.	0.4	9
79	Robust control of electric generator in the case of time-dependent mechanical power. Journal of Computer and Systems Sciences International, 2013, 52, 750-758.	0.2	18
80	Robust Synchronization of the Structural Uncertainty Nonlinear Network with Delay & Disturbances. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 227-232.	0.4	17
81	Suboptimal Control of Aircraft Lateral Motion1. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 276-282.	0.4	9
82	OUTPUT ADAPTIVE CONTROL FOR PLANTS USING TIME DELAY. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 281-286.	0.4	9