Igor B Furtat

List of Publications by Year
in descending order

82	397	1039406	887659
papers	citations	9 h-index	17 g-index

84	84	84	130
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Robust synchronization of linear dynamical networks with compensation of disturbances. International Journal of Robust and Nonlinear Control, 2014, 24, 2774-2784.	2.1	42
2	Disturbance Compensation With Finite Spectrum Assignment for Plants With Input Delay. IEEE Transactions on Automatic Control, 2018, 63, 298-305.	3.6	35
3	Compensation of disturbances for MIMO systems with quantized output. Automatica, 2015, 60, 239-244.	3.0	28
4	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
5	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
6	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
7	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
8	Robust control of linear MIMO systems in conditions of parametric uncertainties, external disturbances and signal quantization. , 2015, , .		12
9	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
10	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 5 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
11	OUTPUT ADAPTIVE CONTROL FOR PLANTS USING TIME DELAY. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 281-286.	0.4	9
12	Suboptimal Control of Aircraft Lateral Motion1. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 276-282.	0.4	9
13	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
14	Control of linear time-invariant plants with compensation of measurement noises and disturbances. , 2017, , .		8
15	Modified backstepping algorithm for nonlinear systems. Automation and Remote Control, 2016, 77, 1567-1578.	0.4	7
16	Divergent Stability Conditions of Dynamic Systems. Automation and Remote Control, 2020, 81, 247-257.	0.4	7
17	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
18	Robust suboptimal output control for a Twin Rotor MIMO System. , 2016, , .		6

#	Article	IF	Citations
19	Control of Dynamical Systems with Given Restrictions on Output Signal with Application to Linear Systems. IFAC-PapersOnLine, 2020, 53, 6384-6389.	0.5	6
20	Practical fixed-time ISS of neutral time-delay systems with application to stabilization by using delays. Automatica, 2022, 143, 110455.	3.0	6
21	Robust control with disturbances compensation for plants with unknown dynamical order. , 2014, , .		5
22	Robust static control algorithm for linear objects. Automation and Remote Control, 2015, 76, 446-457.	0.4	5
23	Robust adapting control with disturbances compensation.**The control algorithm proposed in Section 3 is supported by the grant from the Russian Science Foundation (project No. 14-29-00142) in IPME RAS. The proof in Appendix A and simulation results in Section 4 were supported by the Russian Federation President Grant (No. 14.W01.16.6325-MD (MD-6325.2016.8)). The other researches were partially supported by grants of RFBR (16-08-00282, 16-08-00686), Ministry of Education and Science of		

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37	An Algorithm to Control Nonlinear Systems in Perturbations and Measurement Noise. Automation and Remote Control, 2018, 79, 1207-1221.	0.4	3
38	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
39	Output Control of Linear Time-invariant Systems Under Input and Output Disturbances. IFAC-PapersOnLine, 2020, 53, 4534-4539.	0.5	3
40	Compensation of disturbances in multi-machine power systems caused by perturbation of mechanical input power. , 2015, , .		2
41	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
42	Robust suboptimal output stabilization for multi input multi output plants under disturbances. , 2017, , .		2
43	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
44	Delayed Disturbance Attenuation via Measurement Noise Estimation. IEEE Transactions on Automatic Control, 2021, 66, 5546-5553.	3.6	2
45	Stability/Instability Study and Control of Autonomous Dynamical Systems: Divergence Method. IEEE Access, 2021, 9, 23764-23771.	2.6	2
46	Modified Backstepping Algorithm with Disturbances Compensation for Nonlinear MIMO Systems. IFAC-PapersOnLine, 2020, 53, 6012-6018.	0.5	2
47	Feedback Control in the Presence of Input and Output Disturbances. IFAC-PapersOnLine, 2020, 53, 4593-4598.	0.5	2
48	Modified robust backstepping algorithm for plants with time delay. , 2014, , .		1
49	Modified simple adaptive-robust backstepping algorithm. , 2014, , .		1
50	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 Government of Russian Federation, Grant 074-U01.. IFAC-PapersOnLine, 2015, 48, 211-215.	0.5	1
51	Disturbance compensation in electric generator network control. Journal of Computer and Systems Sciences International, 2016, 55, 115-124.	0.2	1
52	Event-triggered output robust controller. , 2017, , .		1
53	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 ETQq1 1 0.784314 rgBT /Overlock	0.5	1
54	Disturbance Compensation Algorithm Under Saturation of Control Signal * *The results of Section 3 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) and Gove. IFAC-PapersOnLine, 2017, 50, 3129-3134.	0.5	1

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55	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 ETQq1 1 0.784314 rgBT /Ov Basic Research No. 16-08-00282, No. 16-08-00686, 17-08-01266, Ministry of Education and Science of		

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73	Discrete-Time State Feedback Control Algorithm for Disturbances Compensation. , 2018, , .		0
74	Finite Time Stabilization of Nonlinear Cascade Systems under Input and Output Disturbances. , 2019, , .		0
75	Algorithms for Prediction of Smooth Bounded Signals. , 2019, , .		0
76	Modified Backstepping Algorithm for Plants under Mismatched Disturbances and Varying Time-Delay. , 2019, , .		0
77	Tracking Control of Nonlinear Systems under Input and Output Disturbances with Applications. , 2020, , .		0
78	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
79	Robust Control of Uncertain Linear Plants in Conditions of Signal Quantization and Time-delay. , 2016, , .		0
80	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
81	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
82	Sampled-data State-feedback Control under Disturbances and Measurement Noisesâ‹†. , 2020, , .		0