Stanislav Aranovskiy

List of Publications by Year
in descending order

75	1,122	516561 16	454834 30
papers	citations	h-index	g-index

75	75	75	451
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A new on-line exponential parameter estimator without persistent excitation. Systems and Control Letters, 2022, 159, 105079.	1.3	9
2	On-line estimation of the parameters of the windmill power coefficient. Systems and Control Letters, 2022, 164, 105242.	1.3	5
3	New results on adaptive systems. International Journal of Adaptive Control and Signal Processing, 2022, 36, 1250-1251.	2.3	3
4	New Results on Parameter Estimation via Dynamic Regressor Extension and Mixing: Continuous and Discrete-Time Cases. IEEE Transactions on Automatic Control, 2021, 66, 2265-2272.	3.6	62
5	Scissored pair control moment gyroscope inverted pendulum. Procedia Computer Science, 2021, 186, 761-768.	1.2	2
6	Switched observer design for a class of locally unobservable time-varying systems. Automatica, 2021, 130, 109715.	3.0	3
7	Robust Adaptive Stabilization by Delay Under State Parametric Uncertainty and Measurement Bias. IEEE Transactions on Automatic Control, 2021, 66, 5459-5466.	3.6	1
8	A Globally Convergent Adaptive Indirect Fieldâ€Oriented Torque Controller for Induction Motors. Asian Journal of Control, 2020, 22, 11-24.	1.9	2
9	A switched dynamic model for pointing tasks with a computer mouse. Asian Journal of Control, 2020, 22, 1387-1400.	1.9	8
10	Fixed-time estimation of parameters for non-persistent excitation. European Journal of Control, 2020, 55, 24-32.	1.6	22
11	Stator Flux Finite-time Observer for Non-Salient Permanent Magnet Synchronous Motors. , 2020, , .		1
12	Bias Propagation and Estimation in Homogeneous Differentiators for a Class of Mechanical Systems. IEEE Access, 2020, 8, 19450-19459.	2.6	2
13	Experimental Comparison of Velocity Observers: A Scissored Pair Control Moment Gyroscope Case Study. IEEE Access, 2020, 8, 21694-21702.	2.6	8
14	State estimation for a locally unobservable parameter-varying system: one gradient-based and one switched solutions. IFAC-PapersOnLine, 2020, 53, 578-583.	0.5	1
15	Experimental comparison of velocity estimators for a control moment gyroscope inverted pendulum. , 2020, , .		3
16	Stator flux and load torque observers for PMSM. IFAC-PapersOnLine, 2020, 53, 5051-5056.	0.5	3
17	An adaptive FIR filter for trajectory prediction and latency reduction in direct Humanâ€“Computer interactions. Control Engineering Practice, 2019, 91, 104093.	3.2	0
18	Adaptive state observers using dynamic regressor extension and mixing. Systems and Control Letters, 2019, 133, 104519.	1.3	22

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19	Parameter identification of linear timeâ€invariant systems using dynamic regressor extension and mixing. International Journal of Adaptive Control and Signal Processing, 2019, 33, 1016-1030.	2.3	24
20	Efficient learning from adaptive control under sufficient excitation. International Journal of Robust and Nonlinear Control, 2019, 29, 3111-3124.	2.1	17
21	ONLINE ESTIMATION OF TIME-VARYING FREQUENCY OF A SINUSOIDAL SIGNAL. IFAC-PapersOnLine, 2019, 52, 245-250.	0.5	3
22	Differentiator-based velocity observer with sensor bias estimation: an inverted pendulum case study. IFAC-PapersOnLine, 2019, 52, 436-441.	0.5	11
23	A globally exponentially stable speed observer for a class of mechanical systems: experimental and simulation comparison with high-gain and sliding mode designs. International Journal of Control, 2019, 92, 1620-1633.	1.2	15
24	On Physical Modeling of Lithium-Ion Cells and Adaptive Estimation of their State-of-Charge. , 2018, , .		0
25	Enhanced Parameter Convergence for Linear Systems Identification: The DREM Approach. , 2018, , .		12
26	On dynamic regressor extension and mixing parameter estimators: Two Luenberger observers interpretations. Automatica, 2018, 95, 548-551.	3.0	40
27	Next-Point Prediction for Direct Touch Using Finite-Time Derivative Estimation. , 2018, , .		14
28	Identification of photovoltaic arrays' maximum power extraction point via dynamic regressor extension and mixing. International Journal of Adaptive Control and Signal Processing, 2017, 31, 1337-1349.	2.3	17
29	AÂglobally convergent frequency estimator ofÂaÂsinusoidal signal with aÂtime-varying amplitude. European Journal of Control, 2017, 38, 32-38.	1.6	15
30	Performance Enhancement of Parameter Estimators via Dynamic Regressor Extension and Mixing. IEEE Transactions on Automatic Control, 2017, 62, 3546-3550.	3.6	228
31	A robust nonlinear position observer for synchronous motors with relaxed excitation conditions. International Journal of Control, 2017, 90, 813-824.	1.2	28
32	The DREM Approach for Chaotic Oscillators Parameter Estimation with Improved Performance * *This article is supported by the Russian Federation President Grant 14.Y31.16.9281-HLLI, the Government of the Russian Federation (GOSZADANIE 2.8878.2017, grant 074-U01) and the Ministry of Education and Science of the Russian Federation (project 14.Z50.31.0031).. IFAC-PapersOnLine, 2017, 50, 7027-7031.	0.5	3
33	Frequency estimation of a sinusoidal signal with time-varying amplitude * *This article is supported by Government of Russian Federation (GOSZADANIE 2.8878.2017, grant 074-U01), the Ministry of Education and Science of Russian Federation (project 14.Z50.31.0031). ** **This work was supported by the Russian Federation President Grant No 14.Y31.16.9281-HLLI.. IFAC-PapersOnLine, 2017, 50, 12880-12885.	0.5	3
34	Adaptive Tracking of a Multi-Sinusoidal Signal with DREM-Based Parameters Estimation * *This article is supported by the Russian Federation President Grant 14.Y31.16.9281-HLLI, the Government of the Russian Federation (GOSZADANIE 2.8878.2017, grant 074-U01) and the Ministry of Education and Science of the Russian Federation (project 14.Z50.31.0031).. IFAC-PapersOnLine, 2017, 50, 4282-4287.	0.5	4
35	Frequency domain forecasting approach for latency reduction in direct human-computer interaction. , 2017, , .		3
36	Adaptive filters cascade applied to a frequency identification improvement problem. International Journal of Adaptive Control and Signal Processing, 2016, 30, 677-689.	2.3	11

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37	Modeling pointing tasks in mouse-based human-computer interactions. , 2016, , .		10
38	Improved Transients in Multiple Frequencies Estimation via Dynamic Regressor Extension and Mixing. IFAC-PapersOnLine, 2016, 49, 99-104.	0.5	27
39	Parameters estimation via dynamic regressor extension and mixing. , 2016, , .		28
40	Adaptive Multisinusoidal Signal Tracking System with Input Delay* *This article is supported by Government of Russian Federation (GOSZADANIE 2014/190 (project 2118)) and the Ministry of Education and Science of Russian Federation (project 14.Z50.31.0031).. IFAC-PapersOnLine, 2016, 49, 105-110.	0.5	11
41	Identification of the Currentâ€"Voltage Characteristic of Photovoltaic Arrays. IFAC-PapersOnLine, 2016, 49, 223-228.	0.5	3
42	Input nonlinearity compensation and chattering reduction in a mobile hydraulic forestry crane. Elektrotechnik Und Informationstechnik, 2016, 133, 248-252.	0.7	1
43	A robust PI passivity-based control of nonlinear systems and its application to temperature regulation. International Journal of Robust and Nonlinear Control, 2016, 26, 2216-2231.	2.1	8
44	Time-Varying Gain Differentiator: A Mobile Hydraulic System Case Study. IEEE Transactions on Control Systems Technology, 2016, 24, 1740-1750.	3.2	27
45	On Stability of Tunable Linear Time-Varying Band-Pass Filtersâˆ—â€”This article is supported by Government of Russian Federation (grant 074-U01, GOSZADANIE 2014/190 (project 2118)), the Ministry of Education and Science of Russian Federation (project 14.Z50.31.0031).. IFAC-PapersOnLine, 2015, 48, 345-347.	0.5	0
46	A parameter estimation approach to state observation of nonlinear systems. , 2015, , .		1
47	Flux and Position Observer of Permanent Magnet Synchronous Motors with Relaxed Persistency of Excitation Conditionsâˆ—â€”This article is supported by Government of Russian Federation (grant 074-U01,) Tj ETQq1 1 0.784314 rgBT (project 14.Z50.31.0031).. IFAC-PapersOnLine, 2015, 48, 301-306.	0.5	20
48	Ćuk converter full state adaptive observer design. , 2015, , .		2
49	Robust PI passivity-based control of nonlinear systems: Application to port-Hamiltonian systems and temperature regulation. , 2015, , .		7
50	A parameter estimation approach to state observation of nonlinear systems. Systems and Control Letters, 2015, 85, 84-94.	1.3	68
51	Robust control of rapid thermal processes applied to vapor deposition processing. , 2014, , .		2
52	Second order sliding mode control of a mobile hydraulic crane. , 2014, , .		11
53	Control of a single-link mobile hydraulic actuator with a pressure compensator. , 2014, , .		1
54	Improved frequency identification via an adaptive filters cascade. , 2014, , .		6

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55	Position control of an industrial hydraulic system with a pressure compensator. , 2014, , .		6
56	Output adaptive controller for linear system with input delay and multisinusoidal disturbance. , 2014, , .		7
57	Output controller for quadcopters with wind disturbance cancellation. , 2014, , .		19
58	Sliding mode control of a forestry-standard mobile hydraulic system. , 2014, , .		5
59	Time-Varying Gain Second Order Sliding Mode Differentiator. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 1374-1379.	0.4	6
60	Adaptive Controller for Linear Plant with Parametric Uncertainties, Input Delay And Unknown Disturbance. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 11294-11298.	0.4	12
61	Adaptive compensation of disturbances formed as sums of sinusoidal signals with application to an active vibration control benchmark. European Journal of Control, 2013, 19, 253-265.	1.6	31
62	Modeling and identification of spool dynamics in an industrial electro-hydraulic valve. , 2013, , .		12
63	The New Algorithm of Sinusoidal Signal Frequency Estimation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 182-186.	0.4	5
64	Adaptive attenuation of disturbance formed as a sum of sinusoidal signals applied to a benchmark problem. , 2013, , .		4
65	Output harmonic disturbance compensation for nonlinear plant. , 2012, , .		7
66	Nonlinear dynamics of drives with elasticities and friction. Automation and Remote Control, 2012, 73, 1604-1615.	0.4	6
67	Cancellation of Unknown Harmonic Disturbance for Nonlinear System with Input Delay. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 1516-1521.	0.4	2
68	The method of identification for the “motor-dual-section device” system through output signal measurements. , 2011, , .		2
69	Nonlinear dynamic of actuators with elasticities and friction. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 255-260.	0.4	4
70	Identification of Frequency of Biased Harmonic Signal. European Journal of Control, 2010, 16, 129-139.	1.6	74
71	Adaptive observer of an unknown sinusoidal output disturbance for linear plants. Automation and Remote Control, 2009, 70, 1862-1870.	0.4	34
72	Identification of frequency of a shifted sinusoidal signal. Automation and Remote Control, 2008, 69, 1447-1453.	0.4	6

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73	Identification of frequency of biased harmonic signal. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 167-172.	0.4	8
74	A robust algorithm for identification of the frequency of a sinusoidal signal. Journal of Computer and Systems Sciences International, 2007, 46, 371-376.	0.2	29
75	Compensation of a finite-dimensional quasi-harmonic disturbance for a nonlinear object. Journal of Computer and Systems Sciences International, 2006, 45, 518-525.	0.2	5