

Alexander Fradkov

List of Publications by Year in descending order

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315
papers

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64
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327
docs citations

327
times ranked

2246
citing authors

#	ARTICLE	IF	CITATIONS
1	Control of chaos: Methods and applications in engineering. Annual Reviews in Control, 2005, 29, 33-56.	7.9	301
2	Nonlinear and Adaptive Control of Complex Systems. , 1999, , .		300
3	On self-synchronization and controlled synchronization. Systems and Control Letters, 1997, 31, 299-305.	2.3	246
4	Control of Chaos: Methods and Applications. I. Methods. Automation and Remote Control, 2003, 64, 673-713.	0.8	179
5	Exponential Feedback Passivity and Stabilizability of Nonlinear Systems. Automatica, 1998, 34, 697-703.	5.0	152
6	Control of Chaos: Methods and Applications. II. Applications. Automation and Remote Control, 2004, 65, 505-533.	0.8	134
7	Swinging control of nonlinear oscillations. International Journal of Control, 1996, 64, 1189-1202.	1.9	126
8	ADAPTIVE OBSERVER-BASED SYNCHRONIZATION FOR COMMUNICATION. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2000, 10, 2807-2813.	1.7	116
9	Self-synchronization and controlled synchronization: general definition and example design. Mathematics and Computers in Simulation, 2002, 58, 367-384.	4.4	111
10	Time domain interpretations of frequency domain inequalities on (semi)finite ranges. Systems and Control Letters, 2005, 54, 681-691.	2.3	106
11	Adaptive synchronization of chaotic systems based on speed gradient method and passification. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 1997, 44, 905-912.	0.1	104
12	Adaptive synchronization in delay-coupled networks of Stuart-Landau oscillators. Physical Review E, 2012, 85, 016201.	2.1	98
13	Quadratic Lyapunov functions in the adaptive stability problem of a linear dynamic target. Siberian Mathematical Journal, 1976, 17, 341-348.	0.6	97
14	Approximate Consensus in Stochastic Networks With Application to Load Balancing. IEEE Transactions on Information Theory, 2015, 61, 1739-1752.	2.4	90
15	Speed gradient control of chaotic continuous-time systems. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 1996, 43, 907-913.	0.1	83
16	Method of passification in adaptive control, estimation, and synchronization. Automation and Remote Control, 2006, 67, 1699-1731.	0.8	80
17	Nonlinear adaptive control of feedback passive systems. Automatica, 1995, 31, 1053-1060.	5.0	78
18	Passification of Non-square Linear Systems and Feedback Yakubovich-Kalman-Popov Lemma. European Journal of Control, 2003, 9, 577-586.	2.6	75

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19	Control and estimation under information constraints: Toward a unified theory of control, computation and communications. Automation and Remote Control, 2010, 71, 572-633.	0.8	72
20	Synchronization and phase relations in the motion of two-pendulum system. International Journal of Non-Linear Mechanics, 2007, 42, 895-901.	2.6	69
21	A passification approach to adaptive nonlinear stabilization. Systems and Control Letters, 1996, 28, 73-84.	2.3	60
22	Early History of Machine Learning. IFAC-PapersOnLine, 2020, 53, 1385-1390.	0.9	59
23	VSS-version of energy-based control for swinging up a pendulum. Systems and Control Letters, 2001, 44, 45-56.	2.3	58
24	Stabilization of invariant sets for nonlinear non-affine systems. Automatica, 2000, 36, 1709-1715.	5.0	57
25	Chaotic observer-based synchronization under information constraints. Physical Review E, 2006, 73, 066209.	2.1	57
26	Adaptive Control of 3DOF Motion for LAAS Helicopter Benchmark: Design and Experiments. Proceedings of the American Control Conference, 2007, , .	0.0	57
27	Control of chaos: methods and applications in mechanics. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2006, 364, 2279-2307.	3.4	55
28	Application of cybernetic methods in physics. Physics-Uspokhi, 2005, 48, 103-127.	2.2	54
29	Adaptive Observer-Based Synchronization of Chaotic Systems With First-Order Coder in the Presence of Information Constraints. IEEE Transactions on Circuits and Systems I: Regular Papers, 2008, 55, 1685-1694.	5.4	51
30	Exploring nonlinearity by feedback. Physica D: Nonlinear Phenomena, 1999, 128, 159-168.	2.8	50
31	Estimation and Control Under Information Constraints for LAAS Helicopter Benchmark. IEEE Transactions on Control Systems Technology, 2010, 18, 1180-1187.	5.2	49
32	Controlling cluster synchronization by adapting the topology. Physical Review E, 2014, 90, 042914.	2.1	47
33	Synchronization of Passifiable Lurie Systems Via Limited-Capacity Communication Channel. IEEE Transactions on Circuits and Systems I: Regular Papers, 2009, 56, 430-439.	5.4	44
34	Passification-based decentralized adaptive synchronization of dynamical networks with time-varying delays. Journal of the Franklin Institute, 2015, 352, 52-72.	3.4	44
35	A historical perspective of adaptive control and learning. Annual Reviews in Control, 2021, 52, 18-41.	7.9	44
36	Combined Adaptive Controller for UAV Guidance. European Journal of Control, 2005, 11, 71-79.	2.6	43

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37	Robust adaptive -gain control of polytopic MIMO LTI systems â€” LMI results. Systems and Control Letters, 2008, 57, 881-887.	2.3	43
38	Synchronization in networks of linear agents with output feedbacks. Automation and Remote Control, 2011, 72, 1615-1626.	0.8	43
39	Design of impulsive adaptive observers for improvement of persistency of excitation. International Journal of Adaptive Control and Signal Processing, 2015, 29, 765-782.	4.1	43
40	Robust synchronization of linear dynamical networks with compensation of disturbances. International Journal of Robust and Nonlinear Control, 2014, 24, 2774-2784.	3.7	42
41	Control of the coupled double pendulums system. Mechatronics, 2005, 15, 1289-1303.	3.3	39
42	Adaptive tuning of feedback gain in time-delayed feedback control. Chaos, 2011, 21, 043111.	2.5	39
43	Stabilization of invariant sets for nonlinear systems with applications to control of oscillations. International Journal of Robust and Nonlinear Control, 2001, 11, 215-240.	3.7	38
44	Controlled synchronization under information constraints. Physical Review E, 2008, 78, 036210.	2.1	38
45	Oscillatory of Nonlinear Systems with Static Feedback. SIAM Journal on Control and Optimization, 2009, 48, 618-640.	2.1	38
46	Semi-adaptive control of convexly parametrized systems with application to temperature regulation of chemical reactors. International Journal of Adaptive Control and Signal Processing, 2001, 15, 415-426.	4.1	37
47	CONTROL OF CHAOS: SURVEY 1997-2000. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2002, 35, 131-142.	0.4	35
48	Tracking control of the boost converter. IET Control Theory and Applications, 2004, 151, 218-224.	1.7	35
49	Disturbance Compensation With Finite Spectrum Assignment for Plants With Input Delay. IEEE Transactions on Automatic Control, 2018, 63, 298-305.	5.7	35
50	Synchronization of nonlinear systems under information constraints. Chaos, 2008, 18, 037109.	2.5	33
51	Passification based synchronization of nonlinear systems under communication constraints and bounded disturbances. Automatica, 2015, 55, 287-293.	5.0	33
52	Adaptive control of passifiable linear systems with quantized measurements and bounded disturbances. Systems and Control Letters, 2016, 88, 62-67.	2.3	33
53	Duality theorems for certain nonconvex extremal problems. Siberian Mathematical Journal, 1973, 14, 247-264.	0.6	32
54	Problems and methods of network control. Automation and Remote Control, 2016, 77, 1711-1740.	0.8	30

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55	Adaptive tuning to bifurcation for time-varying nonlinear systems. <i>Automatica</i> , 2006, 42, 417-425.	5.0	28
56	Approximate consensus in the dynamic stochastic network with incomplete information and measurement delays. <i>Automation and Remote Control</i> , 2012, 73, 1765-1783.	0.8	28
57	Compensation of disturbances for MIMO systems with quantized output. <i>Automatica</i> , 2015, 60, 239-244.	5.0	28
58	Asymptotic stability of a class of adaptive systems. <i>International Journal of Adaptive Control and Signal Processing</i> , 1993, 7, 255-260.	4.1	27
59	On synchronization in heterogeneous FitzHugh-Nagumo networks. <i>Chaos, Solitons and Fractals</i> , 2019, 121, 85-91.	5.1	26
60	Horizons of cybernetical physics. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2017, 375, 20160223.	3.4	26
61	Control of oscillations in Hamiltonian systems. , 1997, , .		25
62	Trajectory-approximation-based adaptive control for nonlinear systems under matching conditions. <i>Automatica</i> , 1998, 34, 287-299.	5.0	25
63	FEEDBACK RESONANCE IN SINGLE AND COUPLED 1-DOF OSCILLATORS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 1999, 09, 2047-2057.	1.7	25
64	Adaptive synchronization of a network of interconnected nonlinear Lur'e systems. <i>Automation and Remote Control</i> , 2009, 70, 1190-1205.	0.8	25
65	Synchronization in heterogeneous FitzHugh-Nagumo networks with hierarchical architecture. <i>Physical Review E</i> , 2016, 94, 012203.	2.1	25
66	Complex partial synchronization patterns in networks of delay-coupled neurons. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2019, 377, 20180128.	3.4	25
67	Speed-gradient Entropy Principle for Nonstationary Processes. <i>Entropy</i> , 2008, 10, 757-764.	2.2	24
68	Passification-based robust flight control design. <i>Automatica</i> , 2011, 47, 2743-2748.	5.0	24
69	Passification-based adaptive control: Uncertain input and output delays. <i>Automatica</i> , 2015, 54, 107-113.	5.0	23
70	Adaptive Control of Synchronization in Delay-Coupled Heterogeneous Networks of FitzHugh-Nagumo Nodes. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2016, 26, 1650058.	1.7	23
71	Controlled passage through resonance in mechanical systems. <i>Journal of Sound and Vibration</i> , 2011, 330, 1065-1073.	3.9	22
72	Robust control for a network of electric power generators. <i>Automation and Remote Control</i> , 2013, 74, 1851-1862.	0.8	22

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73	Dissipativity of T-Periodic Linear Systems. IEEE Transactions on Automatic Control, 2007, 52, 1039-1047.	5.7	21
74	Teaching Robotics in Secondary School. IFAC-PapersOnLine, 2017, 50, 12155-12160.	0.9	21
75	Adaptive time-delayed stabilization of steady states and periodic orbits. Physical Review E, 2015, 91, 012906.	2.1	19
76	Robust control of electric generator in the case of time-dependent mechanical power. Journal of Computer and Systems Sciences International, 2013, 52, 750-758.	0.6	18
77	Speed Gradient and MaxEnt Principles for Shannon and Tsallis Entropies. Entropy, 2015, 17, 1090-1102.	2.2	18
78	Speed Gradient Method and Its Applications. Automation and Remote Control, 2021, 82, 1463-1518.	0.8	18
79	Control of the Observables in the Finite-Level Quantum Systems. Automation and Remote Control, 2005, 66, 734-745.	0.8	17
80	ADAPTIVE PASSIFICATION-BASED FAULT-TOLERANT FLIGHT CONTROL. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 715-720.	0.4	17
81	State estimation and synchronization of pendula systems over digital communication channels. European Physical Journal: Special Topics, 2014, 223, 773-793.	2.6	17
82	Feedback control for some solutions of the sine-Gordon equation. Applied Mathematics and Computation, 2015, 269, 17-22.	2.2	17
83	Dynamics and control of oscillations in a complex crystalline lattice. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 353, 24-29.	2.1	16
84	Passification-based adaptive control of linear systems: Robustness issues. International Journal of Adaptive Control and Signal Processing, 2008, 22, 590-608.	4.1	16
85	Yakubovich's oscillatory of circadian oscillations models. Mathematical Biosciences, 2008, 216, 187-191.	1.9	16
86	Control of oscillatory behavior of multispecies populations. Ecological Modelling, 2012, 227, 1-6.	2.5	16
87	Energy control of distributed parameter systems via speed-gradient method: case study of string and sine-Gordon benchmark models. International Journal of Control, 2017, 90, 2554-2566.	1.9	16
88	Delayed and Switched Control of Formations on a Line Segment: Delays and Switches Do Not Matter. IEEE Transactions on Automatic Control, 2020, 65, 794-800.	5.7	16
89	Adaptive Control Design and Experiments for LAAS's Helicopter Benchmark. European Journal of Control, 2008, 14, 329-339.	2.6	15
90	Adaptive synchronization in the complex heterogeneous networks of Hindmarsh-Rose neurons. Chaos, Solitons and Fractals, 2021, 150, 111170.	5.1	15

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91	Speed gradient adaptive control algorithms for mechanical systems. International Journal of Adaptive Control and Signal Processing, 1992, 6, 211-220.	4.1	14
92	CONTROL OF SYNCHRONIZATION IN DELAY-COUPLED NETWORKS. International Journal of Modern Physics B, 2012, 26, 1246007.	2.0	14
93	Multipendulum mechatronic setup: Design and experiments. Mechatronics, 2012, 22, 76-82.	3.3	14
94	Feedback resonance in nonlinear oscillators. , 1999, , .		13
95	Control of oscillations in vibration machines: Start up and passage through resonance. Chaos, 2016, 26, 116310.	2.5	13
96	Energy control of a pendulum with quantized feedback. Automatica, 2016, 67, 171-177.	5.0	13
97	Output Feedback Energy Control of the Sine-Gordon PDE Model Using Collocated Spatially Sampled Sensing and Actuation. IEEE Transactions on Automatic Control, 2020, 65, 1484-1498.	5.7	13
98	ROBUST PASSIFICATION VIA STATIC OUTPUT FEEDBACK " LMI RESULTS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 820-825.	0.4	12
99	Robust control of multi-machine power systems with compensation of disturbances. International Journal of Electrical Power and Energy Systems, 2015, 73, 584-590.	5.5	12
100	Robust nonlinear sampled-data system analysis based on Fridman's method and S-procedure. International Journal of Robust and Nonlinear Control, 2016, 26, 201-217.	3.7	12
101	Control of Phase Shift in Two-Rotor Vibration Units. IEEE Transactions on Control Systems Technology, 2021, 29, 1316-1323.	5.2	12
102	Exciting multi-DOF systems by feedback resonance. Automatica, 2013, 49, 1782-1789.	5.0	11
103	Feedback control of the sine-Gordon antikink. Wave Motion, 2016, 65, 147-155.	2.0	11
104	Dynamics of non-stationary processes that follow the maximum of the Rényi entropy principle. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2016, 472, 20150324.	2.1	11
105	Control using new passivity property with differentiation at both ports. , 2017, , .		11
106	Nonsmooth and discontinuous speed-gradient algorithms. Nonlinear Analysis: Hybrid Systems, 2017, 25, 99-113.	3.5	11
107	On adaptive observer-based synchronization for communication. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1999, 32, 2029-2034.	0.4	10
108	STATE ESTIMATION OVER THE LIMITED-BAND COMMUNICATION CHANNEL FOR PITCH MOTION CONTROL OF LAAS HELICOPTER BENCHMARK1. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 407-412.	0.4	10

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109	Approximate consensus in multi-agent stochastic systems with switched topology and noise. , 2012, , .		10
110	Approximate consensus in multi-agent nonlinear stochastic systems. , 2014, , .		10
111	Control of localized non-linear strain waves in complex crystalline lattices. International Journal of Non-Linear Mechanics, 2016, 86, 174-184.	2.6	10
112	Observer-based boundary control of the sineâ€“Gordon model energy. Automatica, 2020, 113, 108682.	5.0	10
113	Robustness of Pecoraâ€“Carroll synchronization under communication constraints. Systems and Control Letters, 2018, 111, 27-33.	2.3	10
114	Adaptive control of oscillatory and chaotic systems based on linearization of PoincarÃ© map. , 1997, , .		9
115	Energy control of one-degree-of-freedom oscillators in presence of bounded force disturbances. , 1999, , .		9
116	ADAPTIVE CONTROL OF RECURRENT TRAJECTORIES BASED ON LINEARIZATION OF POINCARÃ© MAP. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2000, 10, 621-637.	1.7	9
117	Restricted frequency inequality is equivalent to restricted dissipativity. , 2004, , .		9
118	Control of passage through a resonance area during the start of a two-rotor vibration machine. Journal of Machinery Manufacture and Reliability, 2007, 36, 380-385.	0.5	9
119	Decentralized adaptive controller for synchronization of dynamical networks with delays and bounded disturbances. , 2011, , .		9
120	Decentralized adaptive control of synchronization of dynamic system networks at bounded disturbances. Automation and Remote Control, 2013, 74, 829-844.	0.8	9
121	Dynamics of non-stationary nonlinear processes that follow the maximum of differential entropy principle. Communications in Nonlinear Science and Numerical Simulation, 2015, 29, 488-498.	3.3	9
122	Education and research mechatronic complex for studying vibration devices and processes. Journal of Machinery Manufacture and Reliability, 2016, 45, 369-374.	0.5	9
123	Boundary Energy Control of the Sine-Gordon Equation**This work was performed in IPME RAS, supported by RSF (grant 14-29-00142).. IFAC-PapersOnLine, 2016, 49, 148-153.	0.9	9
124	Event-Triggered Control of Sampled-Data Nonlinear Systems**This work was supported by Saint Petersburg State University, (grant 6.38.230.2015) and by Government of Russian Federation, Grant 074-U01. The Lyapunov-Krasovskii functional based analysis of closed-loop switched system was performed in IPME RAS under support of Russian Science Foundation (grant 14-29-00142). IFAC-PapersOnLine, 2016, 49, 12-17.	0.9	9
125	Localization of the sine-Gordon equation solutions. Communications in Nonlinear Science and Numerical Simulation, 2016, 39, 29-37.	3.3	9
126	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

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127	Gradient Control of H [∞] -non Map Dynamics. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1997, 07, 701-705.	1.7	8
128	Adaptive observer-based synchronization of the nonlinear nonpassifiable systems. Automation and Remote Control, 2007, 68, 1186-1200.	0.8	8
129	Input-to-output stabilization of nonlinear systems via backstepping. International Journal of Robust and Nonlinear Control, 2009, 19, 613-633.	3.7	8
130	Cyber-physical laboratory based on LEGO Mindstorms NXT - first steps. , 2009, , .		8
131	Robust Synchronization of Linear Networks with Compensation of Disturbances1. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 1255-1260.	0.4	8
132	Speed-gradient principle for description of transient dynamics in systems obeying maximum entropy principle. AIP Conference Proceedings, 2011, , .	0.4	8
133	Multiple Controlled Synchronization for 3-Rotor Vibration Unit with Varying Payload. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 5-10.	0.4	8
134	Sampled-Data Control of Nonlinear Oscillations Based on LMIs and Fridman's Method. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 95-100.	0.4	8
135	Cybernetic model of the shock induced wave evolution in solids. Procedia Structural Integrity, 2016, 2, 994-1001.	0.8	8
136	Controlled synchronization in two hybrid FitzHugh-Nagumo systems. IFAC-PapersOnLine, 2016, 49, 137-141.	0.9	8
137	Speed-Gradient Control of the Brockett Integrator. SIAM Journal on Control and Optimization, 2016, 54, 2116-2131.	2.1	8
138	Boundary energy control of a system governed by the nonlinear Klein-Gordon equation. Mathematics of Control, Signals, and Systems, 2018, 30, 1.	2.3	8
139	Angular Velocity and Phase Shift Control of Mechatronic Vibrational Setup. IFAC-PapersOnLine, 2019, 52, 436-441.	0.9	8
140	Passification of nonsquare linear systems. , 2001, , .		8
141	Necessary and Sufficient Conditions for the Passivability of Linear Distributed Systems. Automation and Remote Control, 2003, 64, 517-530.	0.8	7
142	Excitation of oscillations in nonlinear systems under static feedback. , 2004, , .		7
143	Singular perturbations of systems controlled by energy-speed-gradient method. , 2004, , .		7
144	Passification-Based Adaptive Control with Implicit Reference Model*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 342-350.	0.4	7

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145	Adaptive Identification of Angular Motion Model Parameters for LAAS Helicopter Benchmark. Control Applications (CCA), Proceedings of the IEEE International Conference on, 2007, , .	0.0	7
146	Passification of linear systems with respect to given output. , 2008, , .		7
147	Control of a noise-induced transition in a nonlinear dynamical system. Physical Review E, 2008, 77, 026201.	2.1	7
148	Control of wave motion in the chain of pendulums. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 3136-3141.	0.4	7
149	State estimation of passifiable lurie systems via limited-capacity communication channel. , 2009, , .		7
150	Decentralized adaptive controller for synchronization of nonlinear dynamical heterogeneous networks. International Journal of Adaptive Control and Signal Processing, 2013, 27, 729-740.	4.1	7
151	Linear matrix inequality-based analysis of the discrete-continuous nonlinear multivariable systems. Automation and Remote Control, 2015, 76, 989-1004.	0.8	7
152	Equivalence of MIMO Circle Criterion to Existence of Quadratic Lyapunov Function. IEEE Transactions on Automatic Control, 2016, 61, 1895-1899.	5.7	7
153	Simple adaptive control of quadrotor attitude. Algorithms and experimental results. , 2017, , .		7
154	Sliding Mode-based Speed-gradient Control of the String Energy * **The work was supported in part by the Government of the Russian Federation under Grant 074-U01. Stability analysis (Section 3.1) is performed in IPME under support of Russian Science Foundation (grant 14-29-00142).. IFAC-PapersOnLine, 2017, 50, 8484-8489.	0.9	7
155	Adaptive and Robust Control in the USSR. IFAC-PapersOnLine, 2020, 53, 1373-1378.	0.9	7
156	Robust and Adaptive Observer-Based Partial Stabilization for a Class of Nonlinear Systems. IEEE Transactions on Automatic Control, 2009, 54, 1591-1595.	5.7	6
157	Teaching of robotics and control jointly in the University and in the high school based on LEGO Mindstorms NXT. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 9824-9829.	0.4	6
158	Synchronization of linear object networks by output feedback. , 2011, , .		6
159	Adaptive coding for maneuvering UAV tracking over the digital communication channel. , 2014, , .		6
160	Adaptive synchronization of two coupled non-identical Hindmarsh-Rose systems by the Speed Gradient method. IFAC-PapersOnLine, 2018, 51, 12-14.	0.9	6
161	Formation control of a group of unmanned aerial vehicles with data exchange over a packet erasure channel. , 2018, , .		6
162	Frequency-domain estimates of the sampling interval in multirate nonlinear systems by time-delay approach. International Journal of Control, 2019, 92, 1985-1992.	1.9	6

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163	Strict Quasipassivity and Ultimate Boundedness for Nonlinear Control Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1998, 31, 505-510.	0.4	5
164	Stabilization of Invariant Manifolds for Nonlinear Nonaffine Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1998, 31, 213-218.	0.4	5
165	Shunting Method for Control of Homing Missiles with Uncertain Parameters. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 593-598.	0.4	5
166	Vladimir Andreevich Yakubovich. Automation and Remote Control, 2006, 67, 1530-1546.	0.8	5
167	Observer-based synchronization of discrete-time chaotic systems under communication constraints. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 3719-3724.	0.4	5
168	Decentralized adaptive synchronization in nonlinear dynamical networks with nonidentical nodes. , 2009, , .		5
169	Adaptive-based methods for information transmission by means of chaotic signal source modulation. Automation and Remote Control, 2011, 72, 1967-1980.	0.8	5
170	Synchronization of nonlinear systems over intranet: Cart-pendulum case study. , 2014, , .		5
171	Simple and robust adaptive control. International Journal of Adaptive Control and Signal Processing, 2014, 28, 563-566.	4.1	5
172	Sampled-Data Control of Nonlinear Systems Based on Fridman's Analysis and Passification Design—The work is supported by Saint Petersburg State University, (grant 6.38.230.2015). The procedure and conditions for controller design were obtained in IPME RAS under support of Russian Scientific Foundation (grant 14-29-00142). IFAC-PapersOnLine, 2015, 48, 685-690.	0.9	5
173	Adaptive Coding For Data Exchange Between Quadrotors In The Formation**The work was performed in the IPME RAS and supported by the Russian Science Foundation (grant 14-29-00142).. IFAC-PapersOnLine, 2016, 49, 275-280.	0.9	5
174	Mechatronic Laboratory Setup For Study Of Controlled Nonlinear Vibrations* *The work was performed in the IPME RAS and supported by the Russian Science Foundation (grant 14-29-00142). The sample-data control system analysis (Sec. 5.2) is supported by SPbSU (grant 6.38.230.2015). IFAC-PapersOnLine, 2016, 49, 1-6.	0.9	5
175	Data Exchange with Adaptive Coding between Quadrotors in a Formation. Automation and Remote Control, 2019, 80, 150-163.	0.8	5
176	Control of Two Satellites Relative Motion over the Packet Erasure Communication Channel with Limited Transmission Rate Based on Adaptive Coder. Electronics (Switzerland), 2020, 9, 2032.	3.1	5
177	On General Definitions of Synchronization. Series - Stability, Vibration and Control of Systems - Series A, 2004, , 179-188.	0.0	5
178	Synchronization of nonlinearly coupled networks based on circle criterion. Chaos, 2021, 31, 103110.	2.5	5
179	Artificial intelligence based neurofeedback. Cybernetics and Physics, 2019, , 287-291.	0.3	5
180	NUMERICAL AND EXPERIMENTAL EXCITABILITY ANALYSIS OF MULTI-PENDULUM MECHATRONICS SYSTEM. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2002, 35, 55-60.	0.4	4

#	ARTICLE	IF	CITATIONS
181	How to Publish a Good Article and to Reject a Bad One. Notes of a Reviewer. Automation and Remote Control, 2003, 64, 1643-1650.	0.8	4
182	PASSIFICATION-BASED ADAPTIVE CONTROL : ROBUSTNESS ISSUES 1. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 273-278.	0.4	4
183	ADAPTIVE OBSERVER-BASED SYNCHRONISATION OF CHAOTIC SYSTEMS IN PRESENCE OF INFORMATION CONSTRAINTS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 269-274.	0.4	4
184	Control and observation via communication channels with limited bandwidth. Gyroscopy and Navigation, 2010, 1, 126-133.	1.3	4
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