

Alexander Fradkov

List of Publications by Year in descending order

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327
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2246
citing authors

#	ARTICLE	IF	CITATIONS
1	Parameter Estimation for Hindmarsh-Rose Neurons. Electronics (Switzerland), 2022, 11, 885.	3.1	2
2	Adaptive Multiple Synchronization and Phase Shift Control for Mechatronic Vibrational Setup. , 2022, , ,		2
3	Control of Phase Shift in Two-Rotor Vibration Units. IEEE Transactions on Control Systems Technology, 2021, 29, 1316-1323.	5.2	12
4	Finite-Differential Nonsmooth Speed-Gradient Control: Stability, Passivity, Robustness. SIAM Journal on Control and Optimization, 2021, 59, 1370-1392.	2.1	2
5	Adaptive synchronization in the complex heterogeneous networks of Hindmarsh-Rose neurons. Chaos, Solitons and Fractals, 2021, 150, 111170.	5.1	15
6	Synchronization of nonlinearly coupled networks based on circle criterion. Chaos, 2021, 31, 103110.	2.5	5
7	Speed Gradient Method and Its Applications. Automation and Remote Control, 2021, 82, 1463-1518.	0.8	18
8	A historical perspective of adaptive control and learning. Annual Reviews in Control, 2021, 52, 18-41.	7.9	44
9	Machine Learning and Artificial Intelligence in the Works of V.A. Yakubovich. Vestnik St Petersburg University: Mathematics, 2021, 54, 381-383.	0.4	1
10	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
11	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
12	Observer-based boundary control of the sine-Gordon model energy. Automatica, 2020, 113, 108682.	5.0	10
13	Energy control of the pendulum without measuring its angular velocity. , 2020, , ,		0
14	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
15	Discrete-time Deployment of Agents on a Line Segment: Delays and Switches Do Not Matter. Automation and Remote Control, 2020, 81, 637-648.	0.8	3
16	On robustness against disturbances of passive systems with multiple invariant sets. International Journal of Control, 2020, , 1-13.	1.9	0
17	Early History of Machine Learning. IFAC-PapersOnLine, 2020, 53, 1385-1390.	0.9	59
18	Adaptive stabilization of minimum-phase systems under quantized measurements. IFAC-PapersOnLine, 2020, 53, 3761-3766.	0.9	1

#	ARTICLE	IF	CITATIONS
19	Adaptive control of synchronization for the heterogeneous Hindmarsh-Rose network. IFAC-PapersOnLine, 2020, 53, 146-151.	0.9	2
20	Desynchronization in Oscillatory Networks Based on Yakubovich Oscillatory. IFAC-PapersOnLine, 2020, 53, 1037-1042.	0.9	1
21	Adaptive and Robust Control in the USSR. IFAC-PapersOnLine, 2020, 53, 1373-1378.	0.9	7
22	Complex partial synchronization patterns in networks of delay-coupled neurons. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20180128.	3.4	25
23	On robust stability of multistable passive systems. , 2019, , .		0
24	Output Feedback Energy Control of String PDE Model. IFAC-PapersOnLine, 2019, 52, 138-143.	0.9	2
25	Data Exchange with Adaptive Coding between Quadrotors in a Formation. Automation and Remote Control, 2019, 80, 150-163.	0.8	5
26	On synchronization in heterogeneous FitzHugh-Nagumo networks. Chaos, Solitons and Fractals, 2019, 121, 85-91.	5.1	26
27	Angular Velocity and Phase Shift Control of Mechatronic Vibrational Setup. IFAC-PapersOnLine, 2019, 52, 436-441.	0.9	8
28	Two-point Output Feedback Boundary Control for Semilinear Hyperbolic Systems. IFAC-PapersOnLine, 2019, 52, 54-59.	0.9	0
29	Desynchronization control of FitzHugh-Nagumo networks with random topology. IFAC-PapersOnLine, 2019, 52, 640-645.	0.9	4
30	The Method of Averaged Models for Discrete-Time Adaptive Systems. Automation and Remote Control, 2019, 80, 1755-1782.	0.8	3
31	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
32	Adaptive control of time-varying non-linear plants by speed-gradient algorithms. Informatsionno-Upravliaiushchie Sistemy, 2019, , 37-44.	0.4	4
33	A team of soccer robots for RoboCup competitions in SSL league: system and algorithms. Informatsionno-Upravliaiushchie Sistemy, 2019, , 19-25.	0.4	0
34	Selective excitation of identical conservative port-Hamiltonian systems by a single control. , 2019, , .		0
35	Artificial intelligence based neurofeedback. Cybernetics and Physics, 2019, , 287-291.	0.3	5
36	Adaptive stabilisation of discrete LTI plant with bounded disturbances via finite capacity channel. International Journal of Control, 2018, 91, 2451-2459.	1.9	2

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37	Disturbance Compensation With Finite Spectrum Assignment for Plants With Input Delay. IEEE Transactions on Automatic Control, 2018, 63, 298-305.	5.7	35
38	Control of nonlinear shock waves propagation for isothermal Euler equations. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2018, 98, 448-453.	1.6	1
39	Energy Synchronization of Pendulum Mechanisms. , 2018, , .		3
40	Adaptive synchronization of two coupled non-identical Hindmarsh-Rose systems by the Speed Gradient method. IFAC-PapersOnLine, 2018, 51, 12-14.	0.9	6
41	Analysis of Two-layer Network of FitzHugh-Nagumo Oscillators with Different Layer Topology. IFAC-PapersOnLine, 2018, 51, 235-240.	0.9	0
42	Information Transmission Over the Limited-rate Communication Channel by Chaotic Signal Modulation and Non-linear Observer.. IFAC-PapersOnLine, 2018, 51, 91-96.	0.9	0
43	GENERIC and Speed-Gradient Principle. IFAC-PapersOnLine, 2018, 51, 121-126.	0.9	2
44	Dynamics of an escort probability-based systems which tend to maximize its Tsallis entropy. IFAC-PapersOnLine, 2018, 51, 180-185.	0.9	1
45	In-domain energy control of the sine-Gordon model. , 2018, , .		3
46	On Synchronization in FitzHugh-Nagumo Networks with Small Delays. , 2018, , .		1
47	Energy Tracking for the Sine-Gordon Equation with Dissipation via Boundary Control*. , 2018, , .		2
48	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
49	Formation control of a group of unmanned aerial vehicles with data exchange over a packet erasure channel. , 2018, , .		6
50	The Speed-Gradient Algorithm in the Inverse Stoker Problem for a Synchronous Electric Machine. Vestnik St Petersburg University: Mathematics, 2018, 51, 82-86.	0.4	3
51	Robotics Education in Saint Petersburg Secondary School. Advances in Intelligent Systems and Computing, 2018, , 38-49.	0.6	2
52	Robustness of Pecora-Carroll synchronization under communication constraints. Systems and Control Letters, 2018, 111, 27-33.	2.3	10
53	Projected Dynamics of Constrained Hamiltonian Systems. , 2018, , .		0
54	Feedback control of monotonic shocks. Journal of Physics: Conference Series, 2017, 788, 012030.	0.4	0

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55	Control using new passivity property with differentiation at both ports. , 2017, , .		11
56	Nonsmooth and discontinuous speed-gradient algorithms. Nonlinear Analysis: Hybrid Systems, 2017, 25, 99-113.	3.5	11
57	Teaching Robotics in Secondary School. IFAC-PapersOnLine, 2017, 50, 12155-12160.	0.9	21
58	Bifurcation and synchronization analysis of neural mass model subpopulations. IFAC-PapersOnLine, 2017, 50, 14741-14745.	0.9	4
59	Simple adaptive control of quadrotor attitude. Algorithms and experimental results. , 2017, , .		7
60	Horizons of cybernetical physics. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2017, 375, 20160439.	3.4	2
61	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
62	Popov-like criterion for the complex-variable systems 1 1The work was supported by the SPbSU grant 6.38.230.2015. The Lyapunov function existence criterion (Section 4.1) was obtained in IPME RAS under sole support of RSF, grant 14-29-00142.. !FAC-PapersOnLine, 2017, 50, 8157-8162.	0.9	1
63	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 ₁ /Overlo Basic Research No. 17-08-01266, 17-08-01728 and Government of Russian Federation, Grant 074-U01.. IFAC-PapersOnLine, 2017, 50, 9619-9624	0.9	1
64	Teaching Robotics in Secondary School: Examples and Outcomes. IFAC-PapersOnLine, 2017, 50, 12167-12172.	0.9	1
65	Event-triggered sampled-data energy control of a pendulum * *This work was supported by Saint Petersburg State University, (grant 6.38.230.2015) and by Government of Russian Federation, Grant 074-U01. The proof of avoidance of Zeno phenomenon in continuous event-trigger was performed in IPME RAS under support of Russian Science Foundation (grant 14-29-00142). The results for event-trigger with a constant threshold (Proposition 2) was performed under support of the Russian Foundation for Basic Research, Gran. IFAC-PapersOnLine, 2017, 50, 15295-15300.	0.9	4
66	Scientific School of Vladimir Yakubovich in the 20th century. IFAC-PapersOnLine, 2017, 50, 5231-5237.	0.9	3
67	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
68	Event-triggered adaptive control of minimum-phase systems. IFAC-PapersOnLine, 2017, 50, 4276-4281.	0.9	4
69	Robust observers and Pecora-Carroll synchronization with limited information. , 2017, , .		2
70	Further progress in control of localized nonlinear waves. Journal of Physics: Conference Series, 2017, 937, 012043.	0.4	0
71	Horizons of cybernetical physics. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2017, 375, 20160223.	3.4	26
72	Control over Internet of Oscillations for Group of Pendulums. , 2017, , 205-213.		0

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73	Control of antikinks of the Sine Gordon equation. AIP Conference Proceedings, 2016, , .	0.4	0
74	Passification of MIMO linear systems with respect to given output. , 2016, , .		1
75	Control of oscillations in vibration machines: Start up and passage through resonance. Chaos, 2016, 26, 116310.	2.5	13
76	Education and research mechatronic complex for studying vibration devices and processes. Journal of Machinery Manufacture and Reliability, 2016, 45, 369-374.	0.5	9
77	Adaptive Control of Synchronization in Delay-Coupled Heterogeneous Networks of FitzHugh-Nagumo Nodes. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2016, 26, 1650058.	1.7	23
78	Feedback control of the sine-Gordon antikink. Wave Motion, 2016, 65, 147-155.	2.0	11
79	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
80	Adaptive Stabilization of Linear Systems Through a Two-Way Channel with Limited Capacity. IFAC-PapersOnLine, 2016, 49, 164-168.	0.9	1
81	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
82	Cybernetic model of the shock induced wave evolution in solids. Procedia Structural Integrity, 2016, 2, 994-1001.	0.8	8
83	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
84	Time-varying observer of the supporting body velocity for vibration units. IFAC-PapersOnLine, 2016, 49, 18-23.	0.9	3
85	Controlled synchronization in two hybrid FitzHugh-Nagumo systems. IFAC-PapersOnLine, 2016, 49, 137-141.	0.9	8
86	Control of localized non-linear strain waves in complex crystalline lattices. International Journal of Non-Linear Mechanics, 2016, 86, 174-184.	2.6	10
87	Dynamics of the f-divergence minimization processes based on the speed-gradient principle. , 2016, , .		2
88	Speed-gradient entropy maximization in networks. , 2016, , .		1
89	Robust Control of Multi-Machine Power Systems Caused by Perturbation of Mechanical Input Power and Variable Unknown Communication Time-Delay**The proof of control algorithms was proposed in Appendix A is supported solely by the grant from the Russian Science Foundation (project No.) Tj ETQq1 1 0.784314 rgBT /Overlock 10 supported solely by the Russian Federation President Grant (No. 14.W01.16.6325-MD (MD-6325.2016.8)). The other researches were p. IFAC-PapersOnLine, 2016, 49, 24-29.	0.9	0
90	Synchronization in heterogeneous FitzHugh-Nagumo networks with hierarchical architecture. Physical Review E, 2016, 94, 012203.	2.1	25

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91	Speed-Gradient Control of the Brockett Integrator. SIAM Journal on Control and Optimization, 2016, 54, 2116-2131.	2.1	8
92	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
93	Problems and methods of network control. Automation and Remote Control, 2016, 77, 1711-1740.	0.8	30
94	Robust nonlinear sampled-data system analysis based on Fridman's method and Sâ€ procedure. International Journal of Robust and Nonlinear Control, 2016, 26, 201-217.	3.7	12
95	Adaptively Controlled Synchronization of Delay-Coupled Networks. Understanding Complex Systems, 2016, , 47-63.	0.6	1
96	Energy control of a pendulum with quantized feedback. Automatica, 2016, 67, 171-177.	5.0	13
97	Dynamics of non-stationary processes that follow the maximum of the RÃ©nyi entropy principle. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2016, 472, 20150324.	2.1	11
98	Localization of the sine-Gordon equation solutions. Communications in Nonlinear Science and Numerical Simulation, 2016, 39, 29-37.	3.3	9
99	Adaptive control of passifiable linear systems with quantized measurements and bounded disturbances. Systems and Control Letters, 2016, 88, 62-67.	2.3	33
100	Equivalence of MIMO Circle Criterion to Existence of Quadratic Lyapunov Function. IEEE Transactions on Automatic Control, 2016, 61, 1895-1899.	5.7	7
101	Control Engineering at High Schools and Universities. Advances in Educational Technologies and Instructional Design Book Series, 2016, , 141-170.	0.2	3
102	Sampled-Data Control of Nonlinear Systems Based on Fridman's Analysis and Passification Designâ€—â€—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
103	Compensation of disturbances in multi-machine power systems caused by perturbation of mechanical input power. , 2015, , .		2
104	Dynamics of differential entropy maximization process via the Speed Gradient principle. , 2015, , .		0
105	About the necessity of Popov criterion for a special Lyapunov function existence for the systems with multiple nonlinearities. Automation and Remote Control, 2015, 76, 801-808.	0.8	3
106	My Teacher. IFAC-PapersOnLine, 2015, 48, 1033-1036.	0.9	0
107	Controlled Passage through Resonance for Flexible Vibration Units. Mathematical Problems in Engineering, 2015, 2015, 1-8.	1.1	4
108	Simulation of MEPP via speed-gradient principle. , 2015, , .		0

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109	Synchronization of passifiable linear networks by output feedback. , 2015, , .		0
110	Nonsmooth Speed-Gradient algorithms. , 2015, , .		2
111	Passification-based adaptive control: Uncertain input and output delays. <i>Automatica</i> , 2015, 54, 107-113.	5.0	23
112	Design of impulsive adaptive observers for improvement of persistency of excitation. <i>International Journal of Adaptive Control and Signal Processing</i> , 2015, 29, 765-782.	4.1	43
113	Adaptive time-delayed stabilization of steady states and periodic orbits. <i>Physical Review E</i> , 2015, 91, 012906.	2.1	19
114	Feedback control for some solutions of the sine-Gordon equation. <i>Applied Mathematics and Computation</i> , 2015, 269, 17-22.	2.2	17
115	Compensation of disturbances for MIMO systems with quantized output. <i>Automatica</i> , 2015, 60, 239-244.	5.0	28
116	Linear matrix inequality-based analysis of the discrete-continuous nonlinear multivariable systems. <i>Automation and Remote Control</i> , 2015, 76, 989-1004.	0.8	7
117	Dynamics of non-stationary nonlinear processes that follow the maximum of differential entropy principle. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2015, 29, 488-498.	3.3	9
118	Robust control of multi-machine power systems with compensation of disturbances. <i>International Journal of Electrical Power and Energy Systems</i> , 2015, 73, 584-590.	5.5	12
119	Speed Gradient and MaxEnt Principles for Shannon and Tsallis Entropies. <i>Entropy</i> , 2015, 17, 1090-1102.	2.2	18
120	Approximate Consensus in Stochastic Networks With Application to Load Balancing. <i>IEEE Transactions on Information Theory</i> , 2015, 61, 1739-1752.	2.4	90
121	Passification based synchronization of nonlinear systems under communication constraints and bounded disturbances. <i>Automatica</i> , 2015, 55, 287-293.	5.0	33
122	Quadcopters Formation Control Over the Limited-band Communication Network—This work was performed in the IPME RAS and supported by the Russian Scientific Foundation (project 14-29-00142).. <i>IFAC-PapersOnLine</i> , 2015, 48, 85-90.	0.9	1
123	Passification-based decentralized adaptive synchronization of dynamical networks with time-varying delays. <i>Journal of the Franklin Institute</i> , 2015, 352, 52-72.	3.4	44
124	Approximate consensus in multi-agent nonlinear stochastic systems. , 2014, , .		10
125	Adaptive coding for maneuvering UAV tracking over the digital communication channel. , 2014, , .		6
126	Analysis of nonlinear local voting protocol for stochastic dynamical networks. , 2014, , .		0

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127	Synchronization of nonlinear systems over intranet: Cart-pendulum case study. , 2014, , .		5
128	Robust synchronization of linear dynamical networks with compensation of disturbances. International Journal of Robust and Nonlinear Control, 2014, 24, 2774-2784.	3.7	42
129	Simple and robust adaptive control. International Journal of Adaptive Control and Signal Processing, 2014, 28, 563-566.	4.1	5
130	Controlling cluster synchronization by adapting the topology. Physical Review E, 2014, 90, 042914.	2.1	47
131	State estimation and synchronization of pendula systems over digital communication channels. European Physical Journal: Special Topics, 2014, 223, 773-793.	2.6	17
132	Passification-based adaptive control with quantized measurements. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 1477-1482.	0.4	1
133	Robust Control of Aircraft Lateral Movement 1. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 5199-5204.	0.4	3
134	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
135	Adaptive time-delayed feedback control. IEICE Proceeding Series, 2014, 1, 674-677.	0.0	2
136	Exciting multi-DOF systems by feedback resonance. Automatica, 2013, 49, 1782-1789.	5.0	11
137	Decentralized adaptive control of synchronization of dynamic system networks at bounded disturbances. Automation and Remote Control, 2013, 74, 829-844.	0.8	9
138	Robust control for a network of electric power generators. Automation and Remote Control, 2013, 74, 1851-1862.	0.8	22
139	Vladimir Andreevich Yakubovich [Obituary]. IEEE Control Systems, 2013, 33, 89-91.	0.8	3
140	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
141	Passification Based Controlled Synchronization of Complex Networks. Springer Proceedings in Complexity, 2013, , 993-996.	0.3	0
142	Adaptive control of systems with fast varying unknown delay in measurements. , 2013, , .		2
143	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
144	Structured adaptive control for solving LMIs. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 426-431.	0.4	2

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145	Combined Speed-gradient Controlled Synchronization of Multimachine Power Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 59-63.	0.4	2
146	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
147	9th IFAC Symposium on Advances in Control Education (ACE 2012) [Conference Reports]. IEEE Control Systems, 2013, 33, 71-76.	0.8	0
148	Robust and Adaptive Passification Based Consensus Control of Dynamical Networks. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 707-711.	0.4	1
149	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
150	Rainbow Runner glider as a testbed for robust and adaptive control methods*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 270-275.	0.4	3
151	Adaptive synchronization in delay-coupled networks of Stuart-Landau oscillators. Physical Review E, 2012, 85, 016201.	2.1	98
152	CONTROL OF SYNCHRONIZATION IN DELAY-COUPLED NETWORKS. International Journal of Modern Physics B, 2012, 26, 1246007.	2.0	14
153	On finite time resonance entrainment in multi-DOF systems. , 2012, , .		2
154	Approximate consensus in multi-agent stochastic systems with switched topology and noise. , 2012, , .		10
155	Control Engineering At School: Learning By Examples. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 118-123.	0.4	3
156	Approximate consensus in the dynamic stochastic network with incomplete information and measurement delays. Automation and Remote Control, 2012, 73, 1765-1783.	0.8	28
157	Natural wave control in lattices of linear oscillators. Systems and Control Letters, 2012, 61, 887-893.	2.3	1
158	State estimation of complex oscillatory system with uniform quantization under data rate constraints. , 2012, , .		1
159	Call for Papers: Special Issue of International Journal of Adaptive Control and Signal Processing on "Simple and Robust Adaptive Control". International Journal of Adaptive Control and Signal Processing, 2012, 26, 556-556.	4.1	0
160	Control of oscillatory behavior of multispecies populations. Ecological Modelling, 2012, 227, 1-6.	2.5	16
161	Multipendulum mechatronic setup: Design and experiments. Mechatronics, 2012, 22, 76-82.	3.3	14
162	Adaptive tuning of feedback gain in time-delayed feedback control. Chaos, 2011, 21, 043111.	2.5	39

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163	Robust Synchronization of Linear Networks with Compensation of Disturbances ¹ . IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 1255-1260.	0.4	8
164	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
165	IMPULSIVE ADAPTIVE OBSERVERS: IMPROVING PERSISTENCY OF EXCITATION. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 2326-2331.	0.4	2
166	Passification Based Synchronization of Nonlinear Systems Under Communication Constraints [†] . IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 6561-6566.	0.4	2
167	Adaptive synchronization of nonlinear networks with delayed couplings under incomplete control and incomplete measurements*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 1249-1254.	0.4	1
168	International conferences in control systems: Traditions and trends. Automation and Remote Control, 2011, 72, 160-163.	0.8	2
169	Synchronization in networks of linear agents with output feedbacks. Automation and Remote Control, 2011, 72, 1615-1626.	0.8	43
170	Adaptive-based methods for information transmission by means of chaotic signal source modulation. Automation and Remote Control, 2011, 72, 1967-1980.	0.8	5
171	Passification-based robust flight control design. Automatica, 2011, 47, 2743-2748.	5.0	24
172	Controlled passage through resonance in mechanical systems. Journal of Sound and Vibration, 2011, 330, 1065-1073.	3.9	22
173	Decentralized adaptive controller for synchronization of dynamical networks with delays and bounded disturbances. , 2011, , .		9
174	Synchronization of linear object networks by output feedback. , 2011, , .		6
175	Speed-gradient principle for description of transient dynamics in systems obeying maximum entropy principle. AIP Conference Proceedings, 2011, , .	0.4	8
176	Passification-based robust flight control system design. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 66-71.	0.4	0
177	Adaptive coding for position estimation in formation flight control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 72-76.	0.4	3
178	Decentralized Adaptive Controller for Synchronization of Nonlinear Dynamical Heterogeneous Networks. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 324-329.	0.4	0
179	Speed gradient control of qubit state*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 81-85.	0.4	3
180	Control and observation via communication channels with limited bandwidth. Gyroscopy and Navigation, 2010, 1, 126-133.	1.3	4

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181	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
182	Estimation and Control Under Information Constraints for LAAS Helicopter Benchmark. IEEE Transactions on Control Systems Technology, 2010, 18, 1180-1187.	5.2	49
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