

# Gennady A Leonov

## List of Publications by Year in descending order

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199  
papers

5,920  
citations

126708

33  
h-index

76769

74  
g-index

201  
all docs

201  
docs citations

201  
times ranked

1334  
citing authors

#	ARTICLE	IF	CITATIONS
1	HIDDEN ATTRACTORS IN DYNAMICAL SYSTEMS. FROM HIDDEN OSCILLATIONS IN HILBERTâ€™KOLMOGOROV, AIZERMAN, AND KALMAN PROBLEMS TO HIDDEN CHAOTIC ATTRACTOR IN CHUA CIRCUITS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2013, 23, 1330002.	0.7	677
2	Localization of hidden Chua's attractors. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 2230-2233.	0.9	616
3	Hidden attractors in dynamical systems. Physics Reports, 2016, 637, 1-50.	10.3	531
4	Hidden attractor in smooth Chua systems. Physica D: Nonlinear Phenomena, 2012, 241, 1482-1486.	1.3	475
5	TIME-VARYING LINEARIZATION AND THE PERRON EFFECTS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2007, 17, 1079-1107.	0.7	208
6	Hidden attractor and homoclinic orbit in Lorenz-like system describing convective fluid motion in rotating cavity. Communications in Nonlinear Science and Numerical Simulation, 2015, 28, 166-174.	1.7	197
7	Algorithms for finding hidden oscillations in nonlinear systems. The Aizerman and Kalman conjectures and Chua's circuits. Journal of Computer and Systems Sciences International, 2011, 50, 511-543.	0.2	186
8	Attraktorlokalisierung des Lorenz-Systems. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 1987, 67, 649-656.	0.9	153
9	Analytical-numerical method for attractor localization of generalized Chua's system. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 29-33.	0.4	146
10	Hold-In, Pull-In, and Lock-In Ranges of PLL Circuits: Rigorous Mathematical Definitions and Limitations of Classical Theory. IEEE Transactions on Circuits and Systems I: Regular Papers, 2015, 62, 2454-2464.	3.5	101
11	On differences and similarities in the analysis of Lorenz, Chen, and Lu systems. Applied Mathematics and Computation, 2015, 256, 334-343.	1.4	100
12	Bounds for attractors and the existence of homoclinic orbits in the Lorenz system. Prikladnaya Matematika I Mekhanika, 2001, 65, 19-32.	0.4	91
13	Lyapunov's direct method in the estimation of the Hausdorff dimension of attractors. Acta Applicandae Mathematicae, 1992, 26, 1-60.	0.5	86
14	Multistability: Uncovering hidden attractors. European Physical Journal: Special Topics, 2015, 224, 1405-1408.	1.2	84
15	Algorithms for searching for hidden oscillations in the Aizerman and Kalman problems. Doklady Mathematics, 2011, 84, 475-481.	0.1	83
16	Hidden attractors in dynamical systems: systems with no equilibria, multistability and coexisting attractors. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 5445-5454.	0.4	83
17	General existence conditions of homoclinic trajectories in dissipative systems. Lorenz, Shimizuâ€™Morioka, Lu and Chen systems. Physics Letters, Section A: General, Atomic and Solid State Physics, 2012, 376, 3045-3050.	0.9	77
18	Scenario of the Birth of Hidden Attractors in the Chua Circuit. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2017, 27, 1730038.	0.7	70

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19	Analytical Method for Computation of Phase-Detector Characteristic. IEEE Transactions on Circuits and Systems II: Express Briefs, 2012, 59, 633-637.	2.2	67
20	Analytical-numerical methods for investigation of hidden oscillations in nonlinear control systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 2494-2505.	0.4	62
21	Hidden oscillations in nonlinear control systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 2506-2510.	0.4	59
22	Lyapunov dimension formula for the global attractor of the Lorenz system. Communications in Nonlinear Science and Numerical Simulation, 2016, 41, 84-103.	1.7	58
23	Phase synchronization: Theory and applications. Automation and Remote Control, 2006, 67, 1573-1609.	0.4	57
24	Tutorial on dynamic analysis of the Costas loop. Annual Reviews in Control, 2016, 42, 27-49.	4.4	51
25	Hidden oscillations in aircraft flight control system with input saturation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 75-79.	0.4	49
26	Nonlinear dynamical model of Costas loop and an approach to the analysis of its stability in the large. Signal Processing, 2015, 108, 124-135.	2.1	48
27	Algorithm for constructing counterexamples to the Kalman problem. Doklady Mathematics, 2010, 82, 540-542.	0.1	46
28	Fishing principle for homoclinic and heteroclinic trajectories. Nonlinear Dynamics, 2014, 78, 2751-2758.	2.7	43
29	Title is missing!. Regular and Chaotic Dynamics, 2006, 11, 281.	0.3	43
30	Hidden attractors in electromechanical systems with and without equilibria. IFAC-PapersOnLine, 2016, 49, 51-55.	0.5	42
31	SHILNIKOV CHAOS IN LORENZ-LIKE SYSTEMS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2013, 23, 1350058.	0.7	36
32	Algorithm for localizing Chua attractors based on the harmonic linearization method. Doklady Mathematics, 2010, 82, 663-666.	0.1	35
33	Lyapunov functions in the attractors dimension theory. Prikladnaya Matematika I Mekhanika, 2012, 76, 129-141.	0.4	35
34	Analytical-Numerical Localization of Hidden Attractor in Electrical Chua's Circuit. Lecture Notes in Electrical Engineering, 2013, , 149-158.	0.3	34
35	Local instability and localization of attractors. From stochastic generator to Chua's systems. Acta Applicandae Mathematicae, 1995, 40, 179-243.	0.5	33
36	Aircraft control with anti-windup compensation. Differential Equations, 2012, 48, 1700-1720.	0.1	32

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37	The tricomi problem for the Shimizu-Morioka dynamical system. Doklady Mathematics, 2012, 86, 850-853.	0.1	30
38	Existence criterion of homoclinic trajectories in the Glukhovskiyâ€“Dolzansky system. Physics Letters, Section A: General, Atomic and Solid State Physics, 2015, 379, 524-528.	0.9	29
39	On stability by the first approximation for discrete systems. , 0, , .		28
40	Analytical-Numerical Methods for Hidden Attractorsâ€™™ Localization: The 16th Hilbert Problem, Aizerman and Kalman Conjectures, and Chua Circuits. Computational Methods in Applied Sciences (Springer), 2013, , 41-64.	0.1	28
41	Simulation of Analog Costas Loop Circuits. International Journal of Automation and Computing, 2014, 11, 571-579.	4.5	28
42	Rigorous mathematical definitions of the hold-in and pull-in ranges for phase-locked loops. IFAC-PapersOnLine, 2015, 48, 710-713.	0.5	27
43	Hidden oscillations in SPICE simulation of two-phase Costas loop with non-linear VCO. IFAC-PapersOnLine, 2016, 49, 45-50.	0.5	27
44	A Tribute to J. C. Sprott. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2017, 27, 1750221.	0.7	22
45	Design of Convergent Switched Systems. , 2006, , 291-311.		21
46	The dimension formula for the Lorenz attractor. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 1179-1182.	0.9	20
47	Criteria for the existence of homoclinic orbits of systems Lu and Chen. Doklady Mathematics, 2013, 87, 220-223.	0.1	20
48	Limit cycles of quadratic systems with a perturbed weak focus of order 3 and a saddle equilibrium at infinity. Doklady Mathematics, 2010, 82, 693-696.	0.1	19
49	A short survey on Pyragas time-delay feedback stabilization and odd number limitation. IFAC-PapersOnLine, 2015, 48, 706-709.	0.5	19
50	Pyragas stabilizability via delayed feedback with periodic control gain. Systems and Control Letters, 2014, 69, 34-37.	1.3	18
51	Hidden attractors localization in Chua circuit via the describing function method. IFAC-PapersOnLine, 2017, 50, 2651-2656.	0.5	18
52	Nonlinear Analysis and Design of Phase-Locked Loops. , 0, , .		18
53	On the global stability of the forced motions of a liquid within an ellipsoid. Prikladnaya Matematika I Mekhanika, 1988, 52, 136-139.	0.4	17
54	Efficient methods in the search for periodic oscillations in dynamical systems. Prikladnaya Matematika I Mekhanika, 2010, 74, 24-50.	0.4	17

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55	Computation of phase detector characteristics in synchronization systems. Doklady Mathematics, 2011, 84, 586-590.	0.1	17
56	Prediction of Hidden Oscillations Existence in Nonlinear Dynamical Systems: Analytics and Simulation. Advances in Intelligent Systems and Computing, 2013, , 5-13.	0.5	17
57	Nonlinear analysis of classical phase-locked loops in signal's phase space. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 8253-8258.	0.4	17
58	Computation of phase detector characteristics in phase locked loops for clock synchronization. Doklady Mathematics, 2008, 78, 643-645.	0.1	16
59	Lyapunov quantities and limit cycles of two-dimensional dynamical systems. Analytical methods and symbolic computation. Regular and Chaotic Dynamics, 2010, 15, 354-377.	0.3	16
60	A direct method for calculating Lyapunov quantities of two-dimensional dynamical systems. Proceedings of the Steklov Institute of Mathematics, 2011, 272, 119-126.	0.1	16
61	Hidden oscillations in stabilization system of flexible launcher with saturating actuators*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 37-41.	0.4	16
62	Differential equations of Costas loop. Doklady Mathematics, 2012, 86, 723-728.	0.1	15
63	HILBERT'S 16TH PROBLEM FOR QUADRATIC SYSTEMS: NEW METHODS BASED ON A TRANSFORMATION TO THE LIENARD EQUATION. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2008, 18, 877-884.	0.7	13
64	Drilling systems failures and hidden oscillations. , 2012, , .		13
65	Formulas for the Lyapunov dimension of attractors of the generalized Lorenz system. Doklady Mathematics, 2013, 87, 264-268.	0.1	13
66	On estimates of the bifurcation values of the parameters of a Lorentz system. Russian Mathematical Surveys, 1988, 43, 216-217.	0.2	12
67	On stability in the first approximation. Prikladnaya Matematika I Mekhanika, 1998, 62, 511-517.	0.4	12
68	The Brockett Problem for Linear Discrete Control Systems. Automation and Remote Control, 2002, 63, 777-781.	0.4	12
69	Dynamics and control of the Stewart platform. Doklady Physics, 2014, 59, 405-410.	0.2	12
70	Hidden periodic oscillations in drilling system driven by induction motor. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 5872-5877.	0.4	12
71	Hausdorff and Fractal Dimension Estimates for Invariant Sets of Non-Injective Maps. Zeitschrift Fur Analysis Und Ihre Anwendung, 1998, 17, 207-223.	0.8	11
72	Asymptotic orbital stability conditions for flows by estimates of singular values of the linearization. Nonlinear Analysis: Theory, Methods & Applications, 2001, 44, 1057-1085.	0.6	11

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73	On problems of Aizerman and Kalman. Vestnik St Petersburg University: Mathematics, 2010, 43, 148-162.	0.1	11
74	The Tricomi problem on the existence of homoclinic orbits in dissipative systems. Prikladnaya Matematika I Mekhanika, 2013, 77, 296-304.	0.4	11
75	Analytic Exact Upper Bound for the Lyapunov Dimension of the Shimizu-Morioka System. Entropy, 2015, 17, 5101-5116.	1.1	11
76	Dynamics of the Zeraouli-Sprott Map Revisited. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2016, 26, 1650126.	0.7	11
77	Switching algorithm for data fusion of small low-cost UAV navigation system. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 206-211.	0.4	10
78	Necessary and sufficient conditions of the existence of homoclinic trajectories and cascade of bifurcations in Lorenz-like systems: birth of strange attractor and 9 homoclinic bifurcations. Nonlinear Dynamics, 2016, 84, 1055-1062.	2.7	10
79	A class of dynamical systems with cylindrical phase spaces. Siberian Mathematical Journal, 1976, 17, 72-90.	0.2	9
80	Hidden Oscillations in Electromechanical Systems. , 2017, , 119-124.		9
81	Hidden Oscillations in Drilling Systems: Torsional Vibrations. Journal of Applied Nonlinear Dynamics, 2013, 2, 83-94.	0.1	9
82	Das Rössler-System ist nicht dissipativ im Sinne von LEVINSON. Mathematische Nachrichten, 1986, 129, 31-43.	0.4	8
83	On the method of harmonic linearization. Automation and Remote Control, 2009, 70, 800-810.	0.4	8
84	Limit cycles of the Liénard equation with discontinuous coefficients. Doklady Physics, 2009, 54, 238-241.	0.2	8
85	Nonlinear Phase Shift Compensator for Pilot-Induced Oscillations Prevention. , 2015, , .		8
86	Hidden Oscillations In The Closed-Loop Aircraft-Pilot System And Their Prevention* *This work was supported by Russian Science Foundation (project 14-21-00041) and Saint-Petersburg State University.. IFAC-PapersOnLine, 2016, 49, 30-35.	0.5	8
87	Computation of the lock-in ranges of phase-locked loops with PI filter. IFAC-PapersOnLine, 2016, 49, 36-41.	0.5	8
88	Localization of the attractors of the non-autonomous Liénard equation by the method of discontinuous comparison systems. Prikladnaya Matematika I Mekhanika, 1996, 60, 329-332.	0.4	7
89	Linear non-stationary stabilization algorithms and Brockett's problem. Prikladnaya Matematika I Mekhanika, 2001, 65, 777-783.	0.4	7
90	Localization of hidden attractors of the generalized Chua system based on the method of harmonic balance. Vestnik St Petersburg University: Mathematics, 2010, 43, 242-255.	0.1	7

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91	Upper estimates for the hausdorff dimension of negatively invariant sets of local cocycles. Doklady Mathematics, 2011, 84, 551-554.	0.1	7
92	Convergence based anti-windup design method and its application to flight control. , 2012, , .		7
93	Global stability and oscillations of dynamical systems describing synchronous electrical machines. Vestnik St Petersburg University: Mathematics, 2012, 45, 157-163.	0.1	7
94	Erratum to "The dimension formula for the Lorenz attractor" [Phys. Lett. A 375 (8) (2011) 1179]. Physics Letters, Section A: General, Atomic and Solid State Physics, 2012, 376, 3472-3474.	0.9	7
95	Hidden oscillations in drilling system actuated by induction motor. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 86-89.	0.4	7
96	Pull-in range of the PLL-based circuits with proportionally-integrating filter—This work was supported by Saint-Petersburg State University (project 6.39.416.2014, s. 3-4; project 6.38.505.2014, s. 5.) and Russian Scientific Foundation (project 14-21-00041, s. 6).. IFAC-PapersOnLine, 2015, 48, 720-724.	0.5	7
97	Necessary and Sufficient Conditions for the Absolute Stability of Two-Dimensional Time-Varying Systems. Automation and Remote Control, 2005, 66, 1059-1068.	0.4	6
98	Evaluation of the first five Lyapunov exponents for the Liénard system. Doklady Physics, 2009, 54, 131-133.	0.2	6
99	Frequency oscillations estimates for digital phase-locked loops. Doklady Mathematics, 2011, 84, 761-764.	0.1	6
100	IWCFTA2012 Keynote Speech I - Hidden attractors in dynamical systems: From hidden oscillation in Hilbert-Kolmogorov, Aizerman and Kalman problems to hidden chaotic attractor in Chua circuits. , 2012, , .		6
101	Control of pneumatically actuated 6-DOF Stewart platform for driving simulator. , 2014, , .		6
102	Rössler systems: Estimates for the dimension of attractors and homoclinic orbits. Doklady Mathematics, 2014, 89, 369-371.	0.1	6
103	Delayed feedback stabilization of unstable equilibria. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 6818-6825.	0.4	6
104	Hidden oscillations in drilling systems with salient pole synchronous motor. IFAC-PapersOnLine, 2015, 48, 700-705.	0.5	6
105	The passage through resonance of synchronous electric motors mounted on an elastic base. Prikladnaya Matematika I Mekhanika, 2008, 72, 631-637.	0.4	5
106	On the harmonic linearization method. Doklady Mathematics, 2009, 79, 144-146.	0.1	5
107	Vibrational stabilization and the Brockett problem. Differential Equations, 2011, 47, 1853-1915.	0.1	5
108	On a special type of stability of differential equations for induction machines with double squirrel-cage rotor. Vestnik St Petersburg University: Mathematics, 2012, 45, 128-135.	0.1	5

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109	The nonlocal reduction method in analyzing the stability of differential equations of induction machines. Doklady Mathematics, 2012, 85, 375-379.	0.1	5
110	Discontinuous differential equations: comparison of solution definitions and localization of hidden Chua attractors. IFAC-PapersOnLine, 2015, 48, 408-413.	0.5	5
111	Pyragas stabilization of discrete systems via delayed feedback with periodic control gain. IFAC-PapersOnLine, 2016, 49, 56-61.	0.5	5
112	Stability and oscillations of phase systems. Siberian Mathematical Journal, 1976, 16, 788-805.	0.2	4
113	On the global stability of the lorentz system. Prikladnaya Matematika I Mekhanika, 1983, 47, 690-692.	0.4	4
114	The global stability of the steady rotations of a solid. Prikladnaya Matematika I Mekhanika, 1992, 56, 897-901.	0.4	4
115	PENDULUM WITH POSITIVE AND NEGATIVE DRY FRICTION.: CONTINUUM OF HOMOCLINIC ORBITS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1995, 05, 251-254.	0.7	4
116	On the Brockett stabilization problem. Doklady Physics, 2001, 46, 268-270.	0.2	4
117	Phase locked loops for array processors. , 0, , .		4
118	A Modification of Perron's Counterexample. Differential Equations, 2003, 39, 1651-1652.	0.1	4
119	An astatic phase-locked system for digital signal processors: circuit design and stability. Automation and Remote Control, 2005, 66, 348-355.	0.4	4
120	STRANGE ATTRACTORS AND CLASSICAL STABILITY THEORY. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 251-262.	0.4	4
121	COMPUTATION OF THE FIRST LYAPUNOV QUANTITY FOR THE SECOND-ORDER DYNAMICAL SYSTEM1 This work was partly supported by the Dutch-Russian scientific cooperation programme 047.017.018, RFBR project 07â€“01â€“00151, and grant of the President of the Russian Federation for supporting young scientists MK-162.2007.1, project of the Ministry of Education and Science of Russia and Government of Saint-Petersburg PD07â€“1.1â€“63. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 87-89.	0.4	4
122	Fibonacci numbers revisited: technology-motivated inquiry into a two-parametric difference equation. International Journal of Mathematical Education in Science and Technology, 2008, 39, 749-766.	0.8	4
123	On the Aizerman problem. Automation and Remote Control, 2009, 70, 1120-1131.	0.4	4
124	Algorithm for construction of counterexamples to Aizerman's and Kalman's conjectures*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 24-28.	0.4	4
125	A criterion for the existence of four limit cycles in quadratic systems. Prikladnaya Matematika I Mekhanika, 2010, 74, 135-143.	0.4	4
126	FOUR NORMAL SIZE LIMIT CYCLES IN TWO-DIMENSIONAL QUADRATIC SYSTEMS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2011, 21, 425-429.	0.7	4



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127	Nonlinear mathematical models of Costas Loop for general waveform of input signal. , 2012, , .		4
128	Stability of electromechanical models of drilling systems under discontinuous loads. Doklady Physics, 2012, 57, 206-209.	0.2	4
129	Pull-in range of the classical PLL with impulse signals. IFAC-PapersOnLine, 2015, 48, 562-567.	0.5	4
130	Mathematical models of the Costas loop. Doklady Mathematics, 2015, 92, 594-598.	0.1	4
131	Cascade of bifurcations in Lorenz-like systems: Birth of a strange attractor, blue sky catastrophe bifurcation, and nine homoclinic bifurcations. Doklady Mathematics, 2015, 92, 563-567.	0.1	4
132	Convergence-based Analysis of Robustness to Delay in Anti-windup Loop of Aircraft Autopilot—This work was supported by Russian Scientific Foundation (project 14-21-00041) and Saint-Petersburg State University.. IFAC-PapersOnLine, 2015, 48, 144-149.	0.5	4
133	Computation of lock-in range for classic PLL with lead-lag filter and impulse signals. IFAC-PapersOnLine, 2016, 49, 42-44.	0.5	4
134	Lyapunov dimension formula for the attractor of the Glukhovskiy—Dolzhansky system. Doklady Mathematics, 2016, 93, 42-45.	0.1	4
135	On the Keldysh problem of flutter suppression. AIP Conference Proceedings, 2018, , .	0.3	4
136	The second liapunov method in the theory of phase synchronization. Prikladnaya Matematika I Mekhanika, 1976, 40, 215-222.	0.4	3
137	Reduction method for integrodifferential equations. Siberian Mathematical Journal, 1981, 21, 565-575.	0.2	3
138	Analysis of frequency-of-oscillations-controlled systems. , 0, , .		3
139	Instability in the first approximation for time-dependent linearizations. Prikladnaya Matematika I Mekhanika, 2002, 66, 323-325.	0.4	3
140	Programmable phase locked loops for digital signal processors. , 0, , .		3
141	First-approximation instability criteria for non-stationary linearizations. Prikladnaya Matematika I Mekhanika, 2004, 68, 827-838.	0.4	3
142	A Journey to a Mathematical Frontier with Multiple Computer Tools. Technology, Knowledge and Learning, 2011, 16, 87-96.	3.1	3
143	Simulation of phase-locked loops in phase-frequency domain. , 2012, , .		3
144	Elegant analytic computation of phase detector characteristic for non-sinusoidal signals. IFAC-PapersOnLine, 2015, 48, 960-963.	0.5	3

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145	Computation of the phase detector characteristic of classical PLL. Doklady Mathematics, 2015, 91, 246-249.	0.1	3
146	Pyragas stabilization of discrete systems with delayed feedback and pulse periodic gain. Vestnik St Petersburg University: Mathematics, 2015, 48, 147-156.	0.1	3
147	A short survey on nonlinear models of QPSK Costas loop. IFAC-PapersOnLine, 2017, 50, 6525-6533.	0.5	3
148	Stabilizing unstable periodic orbits of dynamical systems using delayed feedback control with periodic gain. International Journal of Dynamics and Control, 2018, 6, 601-608.	1.5	3
149	Theory of Differential Inclusions and Its Application in Mechanics. , 2018, , 219-239.		3
150	Zur Eingrenzung des Lorenz-Attraktors durch die Anwendung der nichtlokalen Reduktionsmethode und mit Hilfe von Vergleichssystemen zweiter Ordnung. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 1990, 70, 117-127.	0.9	2
151	The orbital stability of the trajectories of dynamic systems. Prikladnaya Matematika I Mekhanika, 1990, 54, 425-429.	0.4	2
152	Anatolii Moiseevich Vershik (on his sixtieth birthday). Russian Mathematical Surveys, 1994, 49, 207-221.	0.2	2
153	The Brockett stabilization problem. , 0, , .		2
154	Mathematical models of phase synchronization systems with quadrature and phase-quadrature units. Automation and Remote Control, 2008, 69, 1475-1485.	0.4	2
155	Necessary and sufficient conditions for the boundedness of solutions to two-dimensional quadratic systems in a positively invariant half-plane. Doklady Mathematics, 2010, 81, 31-33.	0.1	2
156	Synthesis of two-dimensional quadratic systems with a limit cycle satisfying prescribed initial conditions. Doklady Mathematics, 2010, 81, 236-237.	0.1	2
157	Four limit cycles in quadratic two-dimensional systems with a perturbed first-order weak focus. Doklady Mathematics, 2010, 81, 248-250.	0.1	2
158	Asymptotic behavior of solutions of differential equations describing synchronous machines. Doklady Mathematics, 2012, 86, 530-533.	0.1	2
159	Modeling, Simulation and Control of Pneumatically Actuated Stewart Platform with Input Quantization. , 2014, , .		2
160	Lyapunov functions in estimates of attractor dimensions for generalized Rössler systems. Doklady Mathematics, 2015, 91, 5-8.	0.1	2
161	Analytical analysis of a Nose-Hoover generator. Doklady Physics, 2016, 61, 340-342.	0.2	2
162	Lyapunov dimension formulas for Lorenz-like systems. Doklady Mathematics, 2016, 93, 304-306.	0.1	2

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163	Lyapunov techniques in analysis and control of chaotic systems. , 0, , .		1
164	On the stability in the large of nonlinear systems in the critical case of two zero roots. Prikladnaya Matematika I Mekhanika, 1981, 45, 557-560.	0.4	1
165	Oscillations in systems with non-linear damping. Prikladnaya Matematika I Mekhanika, 1993, 57, 945-946.	0.4	1
166	The global stability of two-dimensional systems for controlling angular orientation. Prikladnaya Matematika I Mekhanika, 2000, 64, 855-860.	0.4	1
167	The localization of attractors of the LiÅ©nard equation. Prikladnaya Matematika I Mekhanika, 2002, 66, 387-392.	0.4	1
168	Localization of the attractor of the differential equations for the solar wind-magnetosphere-ionosphere model. Doklady Physics, 2010, 55, 471-473.	0.2	1
169	Frequency-domain estimates for the oscillation periods of nonlinear discrete systems. Doklady Mathematics, 2010, 82, 651-654.	0.1	1
170	Limit cycles in quadratic systems with a first-order weak focus. Doklady Mathematics, 2010, 82, 923-926.	0.1	1
171	Stability domain analysis of an antiwindup control system for an unstable object. Doklady Mathematics, 2012, 86, 587-590.	0.1	1
172	Speed regulation of induction motors with wound rotor. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 90-94.	0.4	1
173	Estimates of the Lyapunov dimension of attractors for generalized RÅ©ssler systems. Vestnik St Petersburg University: Mathematics, 2014, 47, 154-158.	0.1	1
174	Frequency-domain criteria for the global stability of phase synchronization systems. Doklady Mathematics, 2015, 92, 769-772.	0.1	1
175	Modeling and identification of the Tunisian social system in 2011-2014: bifurcation, revolution, and controlled stabilization. IFAC-PapersOnLine, 2015, 48, 725-729.	0.5	1
176	Nonlinear model of the optical Costas loop: pull-in range estimation and hidden oscillations. IFAC-PapersOnLine, 2017, 50, 3325-3330.	0.5	1
177	Dynamic principles of prognosis and control. , 2011, , .		1
178	A non-quadratic criterion for stability of forced oscillations and its application to flight control. , 2013, , .		1
179	Existence of nontrivial periodic solutions in autooscillatory systems. Siberian Mathematical Journal, 1977, 18, 179-187.	0.2	0
180	On estimating the attraction regions of the equilibrium states of dynamic systems by the direct lyapunov method. Prikladnaya Matematika I Mekhanika, 1985, 49, 688-694.	0.4	0

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