

Felix L Chernousko

List of Publications by Year in descending order

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96
papers

1,300
citations

393982

19
h-index

414034

32
g-index

103
all docs

103
docs citations

103
times ranked

382
citing authors

#	ARTICLE	IF	CITATIONS
1	The optimum rectilinear motion of a two-mass system. <i>Prikladnaya Matematika I Mekhanika</i> , 2002, 66, 1-7.	0.4	93
2	Motion Generation of the Capsbot Using Internal Force and Static Friction. , 2006, , .		90
3	Analysis and optimization of the motion of a body controlled by means of a movable internal mass. <i>Prikladnaya Matematika I Mekhanika</i> , 2006, 70, 819-842.	0.4	89
4	The optimal periodic motions of a two-mass system in a resistant medium. <i>Prikladnaya Matematika I Mekhanika</i> , 2008, 72, 116-125.	0.4	77
5	On the motion of a body containing a movable internal mass. <i>Doklady Physics</i> , 2005, 50, 593-597.	0.2	66
6	Ellipsoidal state estimation for dynamical systems. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2005, 63, 872-879.	0.6	57
7	Evolution of Motions of a Rigid Body About its Center of Mass. , 2017, , .		53
8	On the Optimal Motion of a Body with an Internal Mass in a Resistive Medium. <i>JVC/Journal of Vibration and Control</i> , 2008, 14, 197-208.	1.5	45
9	Bounded controls in distributed-parameter systems. <i>Prikladnaya Matematika I Mekhanika</i> , 1992, 56, 707-723.	0.4	43
10	Modelling of snake-like locomotion. <i>Applied Mathematics and Computation</i> , 2005, 164, 415-434.	1.4	42
11	Optimal control of the rectilinear motion of a two-body system in a resistive medium. <i>Prikladnaya Matematika I Mekhanika</i> , 2012, 76, 1-14.	0.4	38
12	On differential games of evasion from many pursuers. <i>Journal of Optimization Theory and Applications</i> , 1985, 46, 461-470.	0.8	37
13	Ellipsoidal Bounds on Reachable Sets of Dynamical Systems with Matrices Subjected to Uncertain Perturbations1. <i>Journal of Optimization Theory and Applications</i> , 2000, 104, 1-19.	0.8	37
14	Properties of the Optimal Ellipsoids Approximating the Reachable Sets of Uncertain Systems. <i>Journal of Optimization Theory and Applications</i> , 2004, 120, 223-246.	0.8	34
15	Two-dimensional motions of a body containing internal moving masses. <i>Meccanica</i> , 2016, 51, 3203-3209.	1.2	34
16	Controllable motions of a two-link mechanism along a horizontal plane. <i>Prikladnaya Matematika I Mekhanika</i> , 2001, 65, 565-577.	0.4	33
17	Analysis and optimization of the rectilinear motion of a two-body system. <i>Prikladnaya Matematika I Mekhanika</i> , 2011, 75, 493-500.	0.4	30
18	Snake-Like Locomotions of Multilink Mechanisms. <i>JVC/Journal of Vibration and Control</i> , 2003, 9, 235-256.	1.5	23

#	ARTICLE	IF	CITATIONS
19	A time-optimal control synthesis for a nonlinear pendulum. Journal of Computer and Systems Sciences International, 2007, 46, 9-18.	0.2	22
20	The motion of a three-link system along a plane. Prikladnaya Matematika I Mekhanika, 2001, 65, 13-18.	0.4	21
21	Time-optimal swing-up feedback control of a pendulum. Nonlinear Dynamics, 2006, 47, 65-73.	2.7	20
22	Minimax Control for a Class of Linear Systems Subject to Disturbances1. Journal of Optimization Theory and Applications, 2005, 127, 535-548.	0.8	17
23	Perturbed motions of a rigid body, close to the Lagrange case. Prikladnaya Matematika I Mekhanika, 1979, 43, 829-837.	0.4	16
24	Properties of the Time-Optimal Feedback Control for a Pendulum-Like System. Journal of Optimization Theory and Applications, 2014, 163, 230-252.	0.8	16
25	Optimal control of vibrationally excited locomotion systems. Regular and Chaotic Dynamics, 2013, 18, 85-99.	0.3	15
26	Motion of a body along a plane under the influence of movable internal masses. Doklady Physics, 2016, 61, 494-498.	0.2	15
27	Ellipsoidal approximation of attainability sets of a linear system with indeterminate matrix. Prikladnaya Matematika I Mekhanika, 1996, 60, 921-931.	0.4	14
28	Time-optimal control for robotic manipulators. Optimal Control Applications and Methods, 1989, 10, 293-311.	1.3	12
29	The influence of friction forces on the dynamics of a two-link mobile robot. Prikladnaya Matematika I Mekhanika, 2010, 74, 13-23.	0.4	12
30	Dynamics of a Body Controlled by Internal Motions. , 2007, , 227-236.		12
31	On the construction of a bounded control in oscillatory systems. Prikladnaya Matematika I Mekhanika, 1988, 52, 426-433.	0.4	11
32	Optimal Motion of a Two-Body System in a Resistive Medium. Journal of Optimization Theory and Applications, 2010, 147, 278-297.	0.8	11
33	Asymptotic methods in the theory of optimal control. IEEE Transactions on Automatic Control, 1981, 26, 993-1000.	3.6	10
34	Dynamics of retrieval of a space tethered system. Prikladnaya Matematika I Mekhanika, 1995, 59, 165-173.	0.4	10
35	Control of elastic systems by bounded distributed forces. Applied Mathematics and Computation, 1996, 78, 103-110.	1.4	10
36	Special issue on the set membership modelling of uncertainties in dynamical systems. Mathematical and Computer Modelling of Dynamical Systems, 2005, 11, 123-124.	1.4	10

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37	REGULAR MOTION OF A TUBE-CRAWLING ROBOT IN A CURVED TUBE*. Mechanics Based Design of Structures and Machines, 2002, 30, 431-462.	0.6	9
38	Time-optimal control of an inverted pendulum in the feedback form. Journal of Computer and Systems Sciences International, 2006, 45, 383-394.	0.2	9
39	Motion of a body in a fluid due to attached-link oscillations. Doklady Physics, 2010, 55, 138-141.	0.2	9
40	Simulation and Optimization of Regular Motions of a Tube-Crawling Robot. Multibody System Dynamics, 2001, 5, 159-184.	1.7	7
41	Locomotion of multibody robotic systems: Dynamics and optimization. Theoretical and Applied Mechanics, 2018, 45, 17-33.	0.1	7
42	Optimal control of the motion of a multilink system in a resistive medium. Prikladnaya Matematika I Mekhanika, 2012, 76, 255-267.	0.4	6
43	Translational motion of a chain of bodies in a resistive medium. Prikladnaya Matematika I Mekhanika, 2017, 81, 256-261.	0.4	6
44	Locomotion Principles for Mobile Robotic Systems. Procedia Computer Science, 2017, 103, 613-617.	1.2	5
45	Optimal Control of Two-Dimensional Motions of a Body by a Movable Mass. IFAC-PapersOnLine, 2018, 51, 232-235.	0.5	5
46	On the motion of a particle over a rough rotating plane. Prikladnaya Matematika I Mekhanika, 1989, 53, 281-288.	0.4	4
47	Decomposition and suboptimal control in dynamic systems. Optimal Control Applications and Methods, 1993, 14, 125-143.	1.3	4
48	Optimal control for a class of systems subjected to disturbances. Prikladnaya Matematika I Mekhanika, 2004, 68, 503-510.	0.4	4
49	Trajectory Tracking of a Wheeled Wall Climbing Robot Using PID Controller. , 2015, , ,		4
50	Experimental Study of Snake-Like Locomotion of a Three-Link Mechanism. , 2005, , 141-150.		4
51	Controlled search of a moving object. Prikladnaya Matematika I Mekhanika, 1980, 44, 1-6.	0.4	3
52	The equilibrium conditions of a rod on a rough plane. Prikladnaya Matematika I Mekhanika, 2002, 66, 165-170.	0.4	3
53	Properties of optimal ellipsoids approximating reachable sets of uncertain systems. Mathematical and Computer Modelling of Dynamical Systems, 2005, 11, 135-147.	1.4	3
54	An elementary model of the rowing process. Doklady Physics, 2015, 60, 140-144.	0.2	3

#	ARTICLE	IF	CITATIONS
55	Optimal Control of a Two-body: Vibration-driven Locomotion System in a Resistive Environment**This study was partly supported by the Russian Foundation for Basic Research (projects 14-01-00061,) Tj ETQq1 1 0.78431 4 rgBT3/Overlook	0.78431	4
56	Static analysis of a two-member linkage interacting with a given surface. Archive of Applied Mechanics, 1999, 69, 429-442.	1.2	2
57	Simulation and Optimization of Crawling Robots. , 2005, , 85-104.		2
58	Nikolai Nikolaevich Krasovskii (A tribute in honor of his eighty-fifth birthday). Differential Equations, 2009, 45, 1401-1407.	0.1	2
59	Optimal motion of a multilink system in a resistive medium. Proceedings of the Steklov Institute of Mathematics, 2012, 276, 63-79.	0.1	2
60	The quasistatic motions of a three-body system on a plane. Prikladnaya Matematika I Mekhanika, 2014, 78, 220-227.	0.4	2
61	Modeling of breaststroke swimming. Doklady Physics, 2014, 59, 103-106.	0.2	2
62	A mechanical model of swimming using two-link extremities. Prikladnaya Matematika I Mekhanika, 2014, 78, 1-6.	0.4	2
63	Optimal Motions of Bodies Controlled by Internal Moving Masses. IFAC-PapersOnLine, 2018, 51, 1-6.	0.5	2
64	On equilibrium and dynamics of a rigid body in the presence of dry friction. Nonlinear Analysis: Theory, Methods & Applications, 1997, 30, 4509-4516.	0.6	1
65	Vladilen Aleksandrovich Trenogin (on his 70th birthday). Russian Mathematical Surveys, 2001, 56, 1199-1207.	0.2	1
66	Modelling of Snake-Like Locomotions. , 2005, , 105-114.		1
67	Bringing a non-linear manoeuvring object to the optimal position in the shortest time. Prikladnaya Matematika I Mekhanika, 2005, 69, 163-172.	0.4	1
68	Time-optimal swing-up and damping feedback controls of a nonlinear pendulum. Communications and Control Engineering, 2008, , 367-387.	1.0	1
69	Control of Vibration-Driven Systems Moving in Resistive Media. , 2009, , 31-40.		1
70	Vladimir A. Borovikov December 25, 1932â€“July 6, 2008. Russian Journal of Mathematical Physics, 2009, 16, 139-145.	0.4	1
71	MOBILE ROBOTIC SYSTEMS: DYNAMICS, CONTROL, AND OPTIMIZATION. , 2009, , .		1
72	Optimal Control of a Two-body System Moving in a Viscous Medium *. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 1308-1313.	0.4	1

#	ARTICLE	IF	CITATIONS
73	A problem of random choice and its deterministic structure. Doklady Mathematics, 2016, 94, 587-590.	0.1	1
74	Motion of Oscillating Two-Link System in Fluid. , 2013, , 109-121.		1
75	Optimal structures of branching pipelines. Prikladnaya Matematika I Mekhanika, 1977, 41, 373-381.	0.4	0
76	Reconstructing trajectories from measurement data. Prikladnaya Matematika I Mekhanika, 1995, 59, 57-64.	0.4	0
77	Dmitrii Evgen'evich Okhotsimskii (obituary). Russian Mathematical Surveys, 2006, 61, 545-549.	0.2	0
78	Anatolii Mikhailovich Samoilenko (on his 70th birthday). Russian Mathematical Surveys, 2009, 64, 175-181.	0.2	0
79	Stanislav Vasil'evich Emel'yanov: A tribute in honor of his eightieth birthday. Differential Equations, 2009, 45, 625-626.	0.1	0
80	Aleksandr Borisovich Kurzanski (A tribute in honor of his seventieth birthday). Differential Equations, 2009, 45, 1557-1563.	0.1	0
81	Optimization of Certain Mobile Robotic Systems*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 226-231.	0.4	0
82	Results of the XXIII International Congress on Theoretical and Applied Mechanics. Prikladnaya Matematika I Mekhanika, 2013, 77, 120-122.	0.4	0
83	International mathematical conferences and schools for young researchers in Suzdal'. Russian Mathematical Surveys, 2014, 69, 183-185.	0.2	0
84	Simple Modelling of the Rowing Process. IFAC-PapersOnLine, 2015, 48, 829-833.	0.5	0
85	Modelling of quasi-static motions for three-body mobile robot. IFAC-PapersOnLine, 2015, 48, 834-835.	0.5	0
86	Dynamics of a body with internal moving masses in the presence of dry friction. , 2017, , .		0
87	Progressive Locomotion of a Chain of Bodies in a Resistant Medium. Procedia Engineering, 2017, 199, 552-557.	1.2	0
88	Rotation of a Body by an Internal Mass. IFAC-PapersOnLine, 2018, 51, 84-86.	0.5	0
89	Comparison of Interval and Ellipsoidal Bounds for the Errors of Vector Operations. Lecture Notes in Computer Science, 2006, , 289-296.	1.0	0
90	Stability based control for Lagrangian mechanical systems. Communications and Control Engineering, 2008, , 147-155.	1.0	0

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91	Piecewise linear control for mechanical systems under uncertainty. Communications and Control Engineering, 2008, , 157-212.	1.0	0
92	Control in distributed-parameter systems. Communications and Control Engineering, 2008, , 245-273.	1.0	0
93	Continuous feedback control for mechanical systems under uncertainty. Communications and Control Engineering, 2008, , 213-243.	1.0	0
94	Optimal control problems under complex constraints. Communications and Control Engineering, 2008, , 327-365.	1.0	0
95	Optimal Motions of Multibody Systems in Resistive Media. Springer Optimization and Its Applications, 2009, , 107-126.	0.6	0
96	Reorientation of a rigid body by means of auxiliary masses. Meccanica, 0, , .	1.2	0