

Сведения о научной ценности трудов
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**«Цикл работ по управлению и стабилизации вращательного
движения космических летательных аппаратов»,**

выдвинутых на соискание премии СПбГУ за научные труды в 2018 г.

«Цикл работ по управлению и стабилизации вращательного движения
космических летательных аппаратов» включает следующие статьи:

1) Aleksandrov A.Yu., Tikhonov A.A. Monoaxial electrodynamic stabilization of earth satellite in the orbital coordinate system // Automation and Remote Control, Vol. 74, Issue 8, August 2013, pp. 1249-1256. DOI: 10.1134/S000511791308002X

Q2, Impact Factor 2017 JCR: 0.562

Количество цитирований SCOPUS: 15

2) Tikhonov A.A., Antipov K.A. Electrodynamic Control for Spacecraft Attitude Stability in the Geomagnetic Field // Cosmic Research, 2014, Vol. 52, No. 6, pp. 472-480.

DOI: 10.1134/S001095251406001X

Q3, Impact Factor 2017 JCR: 0.246

Количество цитирований SCOPUS: 14

3) Aleksandrov, A.Y., Hu, G.-D., Zhabko, A.P. Delay-Independent stability conditions for some classes of nonlinear systems // IEEE Transactions on Automatic Control, 2014, 59 (8), 6708458, pp. 2209-2214 DOI: 10.1109/TAC.2014.2299012

Q1, Impact Factor 2017 JCR: 5.007

Количество цитирований SCOPUS: 15

4) Tikhonov A.A., Antipov K.A. On satellite electrodynamic attitude stabilization // Aerospace Science and Technology 33 (2014) 92-99. DOI:10.1016/j.ast.2014.01.004

Q2-Q1, Impact Factor 2017 JCR: 0.796

Количество цитирований SCOPUS: 15

5) A.Yu. Aleksandrov, K.A. Antipov, A.V. Platonov, A.A. Tikhonov Electrodynamic attitude stabilization of a satellite in the Konig frame // Nonlinear Dynamics, 2015, vol. 82, pp. 1493-1505.

DOI: 10.1007/s11071-015-2256-1

Q1, Impact Factor 2017 JCR: 4.339

Количество цитирований SCOPUS: 10

6) Tikhonov A.A., Kosjakov E.A. Differential equations for librational motion of gravity-oriented rigid body // International Journal of Non-Linear Mechanics 73 (2015) 51-57.

DOI: 10.1016/j.ijnonlinmec.2014.11.006

Q1, Impact Factor 2017 JCR: 2.163

Количество цитирований SCOPUS: 5


- 7) A.Yu. Aleksandrov, K.A. Antipov, A.V. Platonov, A.A. Tikhonov Electrodynamic Stabilization of Artificial Earth Satellites in the Konig Coordinate System // Journal of Computer and Systems Sciences International, 2016, Vol. 55, No. 2, pp. 296-309. DOI: 10.1134/S1064230716010020
Q3-Q2, Impact Factor 2017 JCR: 0.554
Количество цитирований SCOPUS: 4
- 8) Aleksandrov A., Aleksandrova E. Asymptotic stability conditions for a class of hybrid mechanical systems with switched nonlinear positional forces // Nonlinear Dynamics, 2016, 83 (4), pp. 2427-2434 DOI: 10.1007/s11071-015-2491-5
Q1, Impact Factor 2017 JCR: 4.339
Количество цитирований SCOPUS: 11
- 9) A.A. Tikhonov, V.N. Tkhai Symmetrical oscillations of charged gyrostat in weakly elliptical orbit with small inclination // Nonlinear Dynamics, 2016, vol. 85 (3), pp. 1919--1927.
DOI: 10.1007/s11071-016-2805-2
Q1, Impact Factor 2017 JCR: 4.339
Количество цитирований SCOPUS: 1
- 10) Aleksandrov A.Y., Aleksandrova E.B., Chen Y. Partial stability analysis of nonlinear nonstationary systems via averaging // Nonlinear Dynamics, 2016, 86 (1), pp. 153-163
DOI: 10.1007/s11071-016-2878-y
Q1, Impact Factor 2017 JCR: 4.339
Количество цитирований SCOPUS: 0
- 11) Aleksandrov A.Y., Tikhonov A.A. Asymptotic stability of a satellite with electrodynamic attitude control in the orbital frame // Acta Astronautica, 2017, Vol. 139, pp. 122-129
DOI: 10.1016/j.actaastro.2017.06.033
Q1, Impact Factor 2017 JCR: 2.227
Количество цитирований SCOPUS: 1
- 12) Aleksandrov A.Y., Tikhonov A.A. Attitude Stabilization of a Rigid Body in Conditions of Decreasing Dissipation // Vestnik St. Petersburg University, Mathematics, 2017, Vol. 50, No. 4, pp. 384-391. DOI: 10.3103/S1063454117040021
Q4, Impact Factor 2017 SJR: 0.219
Количество цитирований SCOPUS: 3
- 13) A.A. Tikhonov, K.A. Antipov, D.G. Korytnikov, D.Yu. Nikitin Electrodynamic compensation of disturbing torque and attitude stabilization of a satellite in J2 perturbed orbit // Acta Astronautica, 2017, Vol. 141, pp. 219-227. DOI: 10.1016/j.actaastro.2017.10.009
Q1, Impact Factor 2017 JCR: 2.227
Количество цитирований SCOPUS: 1
- 14) Aleksandrov A., Aleksandrova E., Zhabko A. Asymptotic Stability Conditions and Estimates of Solutions for Nonlinear Multiconnected Time-Delay Systems // Circuits, Systems and Signal Processing. 2016. Vol. 35. No. 10. pp. 3531-3554. DOI: 10.1007/s00034-015-0227-x
Q2, Impact Factor 2017 JCR: 1.998
Количество цитирований SCOPUS: 11

15) Aleksandrov A., Aleksandrova E., Zhabko A. Stability analysis of some classes of nonlinear switched systems with time delay // International Journal of Systems Science. 2017. Vol. 48. No. 10. pp. 2111-2119. DOI: 10.1080/00207721.2017.1311382

Q2-Q1, Impact Factor 2017 JCR: 2.185

Количество цитирований SCOPUS: 0

Согласно данным Scimago Journal & Country Rank, в категории Aerospace Engineering, к которой принадлежит данный цикл работ, журнал Nonlinear Dynamics занимает 5-е место в мире из 318 (см. скриншот). Именно в этом журнале опубликованы 4 статьи (5,8,9,10) из данного цикла.

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1 International Journal of Impact Engineering	journal	2.124 Q1	96	239	485	8088	1902	469	3.77	33.84	
2 International Journal of Robust and Nonlinear Control	journal	2.028 Q1	85	277	612	9417	2583	598	4.29	34.00	
3 Mechanical Systems and Signal Processing	journal	1.805 Q1	121	532	960	18613	4720	936	4.94	34.99	
4 Progress in Aerospace Sciences	journal	1.716 Q1	91	34	103	4987	742	100	5.94	146.68	
5 Nonlinear Dynamics	journal	1.468 Q1	85	820	1976	30953	8511	1950	4.29	37.75	
6 International Journal of Engine Research	journal	1.315 Q1	44	84	222	2603	573	215	2.91	30.99	

Согласно данным Scimago Journal & Country Rank, в категории Control and Systems Engineering, к которой принадлежит данный цикл работ, журнал IEEE Transactions on Automatic Control занимает 3-е место в мире из 948 (см. скриншот). Именно в этом журнале опубликована статья 3 из данного цикла.

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1 IEEE Transactions on Fuzzy Systems	journal	4.024 Q1	163	259	454	5986	4348	452	8.59	23.11	
2 Automatica	journal	3.896 Q1	221	508	1275	14702	9444	1256	7.03	28.94	
3 IEEE Transactions on Automatic Control	journal	3.433 Q1	245	800	1212	19661	7118	1205	5.35	24.58	
4 IEEE Transactions on Cybernetics	journal	3.274 Q1	60	532	781	16918	7010	750	9.05	31.80	
5 IEEE Transactions on Control of Network Systems	journal	2.845 Q1	20	120	111	1871	697	110	4.36	15.59	
6 Soft Robotics	journal	2.504 Q1	17	29	82	1076	575	61	6.14	37.10	