

Fișa de verificare a standardelor minimale pentru abilitare
Conf. dr GAVREA Bogdan-Ionuț

I = 5,7989

I_{recent} = 4,3309

C = 31

Articole publicate în reviste ISI cu factor de impact > 0.5:

Numărul publicației	Referința bibliografică	Publicat în ultimii 7 ani (DA sau NU)	s _i	n _i	s _i /n _i
1	B. Gavrea, "A Hermite–Hadamard type inequality with applications to the estimation of moments of continuous random variables", Applied Mathematics and Computation, ISSN 0096-3003, vol. 254, 92-98, 2015, doi:10.1016/j.amc.2014.12.129.	DA	1,6	1	1,6
2	B. Gavrea, "Improvement of some inequalities of Chebysev–Gru ss type", Computers & Mathematics with Applications, ISSN 0898-1221,64(6), 2003-2010, 2012, doi:10.1016/j.camwa.2012.03.101.	DA	1,996	1	1,996
3	D. J. Cappelleri, P. Cheng, J. Fink, B. Gavrea, V. Kumar, "Automated Assembly for Mesoscale Parts", Automation Science and Engineering, IEEE Transactions on , ISSN 1545-5955, 8(3), 598-613, 2011, doi: 10.1109/TASE.2011.2132128.	DA	2,162	5	0.4324
4	C. Petra, B. Gavrea, M. Anitescu, F. Potra. "A computational study of the use of an optimization-based method for simulating large multibody systems ", Optimization Methods and Software, ISSN 1055-6788, 24(6), 871-894, 2009, doi 10.1080/10556780902806094.	DA	1,21	4	0,3025
5	B. Gavrea, M. Anitescu, F.A. Potra. "Convergence of a Class of Semi-Implicit Time-Stepping schemes for Nonsmooth Rigid Multibody Dynamics", SIAM Journal on Optimization (SIOPT), ISSN 1052-6234, 19(2), 969-1001, 2008, doi: 10.1137/060675745.	NU	2,106	3	0,702
6	B. Gavrea, J. Jaksetic, J. Pecaric. "On a Global Upper Bound for Jessen's Inequality", The ANZIAM Journal, ISSN 1446-1811, 50(02), 246-257, 2008, doi: 10.1017/S1446181109000091.	NU	0,829	3	0.276
7	F.A. Potra, M. Anitescu, B. Gavrea, J. Trinkle. "A linearly implicit trapezoidal method for stiff multibody dynamics with contact, joints and friction". International Journal for Numerical Methods in Engineering, ISSN 0029-5981, 66(7), 1079-1124, 2006, doi:10.1002/nme.1582.	NU	1,961	4	0.490
Total:		I =			5,7989
		I _{recent} =			4,3309

Citări în reviste ISI cu factor de impact > 0.5:

Numărul publicației care citează	Referința bibliografică a publicației care citează	S _i
TITLU ARTICOL: F.A. Potra, M. Anitescu, B. Gavrea, J. Trinkle, "A linearly implicit trapezoidal method for stiff multibody dynamics with contact, joints and friction", International Journal for Numerical Methods in Engineering, ISSN 0029-5981, 66(7), 1079-1124, 2006, DOI 10.1002/nme.1582.		
1	C. Studer, R.I. Leine, Ch. Glocker, "Step size adjustment and extrapolation for time stepping schemes in nonsmooth dynamics", International Journal for Numerical Methods in Engineering, ISSN 0029-5981, Vol. 76, No. 11, pp. 1747-1781, 2008, DOI: 10.1002/nme.2383, http://onlinelibrary.wiley.com/doi/10.1002/nme.2383/abstract .	1,961
2	P. Flores, R. Leine, Ch. Glocker, "Application of the nonsmooth dynamics approach to model and analysis of the contact-impact events in cam-follower systems", Nonlinear Dynamics, ISSN 0924-090X, Vol. 69, No. 4, pp. 2117-2133, 2012, DOI: 10.1007/s11071-012-0413-3, http://rd.springer.com/article/10.1007/s11071-012-0413-3#	2,419
3	T. Koziara, N. Bićanić, "Simple and efficient integration of rigid rotations suitable for constraint solvers", International Journal for Numerical Methods in Engineering, ISSN 0029-5981, Vol. 81, No. 9, pp. 1073-1092, 2010, DOI: 10.1002/nme.2711, http://onlinelibrary.wiley.com/doi/10.1002/nme.2711/abstract	1,961
4	K. Lee, "A stabilized numerical solution for the dynamic contact of the bodies having very stiff constraint on the contact point", Computational Mechanics, ISSN 0178-7675, Vol. 46, No. 4, pp. 533-543, DOI: 10.1007/s00466-010-0498-9, http://dx.doi.org/10.1007/s00466-010-0498-9	2,044
5	L. Han, J.-S. Pang, "Non-Zenoness of a class of differential quasi-variational inequalities", Mathematical Programming, ISSN 0025-5610, Vol. 121, No. 1, pp. 171-199, 2010, DOI: 10.1007/s10107-008-0230-0, http://dx.doi.org/10.1007/s10107-008-0230-0	1,984
6	J.-S. Pang, "Frictional contact models with local compliance: semismooth formulation", ZAMM - Journal of Applied Mathematics and Mechanics / Zeitschrift für Angewandte Mathematik und Mechanik, ISSN 0044-2267, Vol. 88, No. 6, pp. 454- 471, 2008, DOI: 10.1002/zamm.200600039, http://dx.doi.org/10.1002/zamm.200600039	1,008
7	Lanshan Han, M. Kanat Camlibel, Jong-Shi Pang, W. P. Maurice H. Heemels, "A unified numerical scheme for linear-quadratic optimal control problems with joint control and state constraints", Optimization Methods and Software, ISSN 1055-6788, Vol. 27, No. 4-5, pp. 761-799, 2012, DOI: 10.1080/10556788.2011.593624, http://www.tandfonline.com/doi/abs/10.1080/10556788.2011.593624	1,210
8	I. Stavness, J. E. Lloyd, Y. Payan, S. Fels, "Coupled hard-soft tissue simulation with contact and constraints applied to jaw-tongue-hyoid dynamics", International Journal for Numerical Methods in Biomedical Engineering, ISSN 2040-7947, Vol.27, No. 3, pp. 367-390, 2011, DOI: 10.1002/cnm.1423, http://dx.doi.org/10.1002/cnm.1423	1,542
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10	Xiaogang Xiong, Ryo Kikuuwe, and Motoji Yamamoto, "A Differential Algebraic Method to Approximate Nonsmooth Mechanical Systems by Ordinary Differential Equations," <i>Journal of Applied Mathematics</i> , ISSN 1110-757X, vol. 2013, Article ID 320276, 13 pages, 2013. doi:10.1155/2013/320276, http://dx.doi.org/10.1155/2013/320276	0,72
11	Bhalerao, K.D., Crean, C., Anderson, K., "Hybrid complementarity formulations for robotics applications", <i>ZAMM - Journal of Applied Mathematics and Mechanics / Zeitschrift für Angewandte Mathematik und Mechanik</i> , ISSN 1521-4001, Vol. 91, No. 5, pp. 386-399, 2011, DOI: 10.1002/zamm.201000093, http://dx.doi.org/10.1002/zamm.201000093	1,008
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TITLU ARTICOL: D. J. Cappelleri, P. Cheng, J. Fink and B. Gavrea, V. Kumar, " <i>Automated Assembly for Mesoscale Parts</i> ", <i>Automation Science and Engineering</i> , <i>IEEE Transactions on</i> , ISSN 1545-5955, 8(3), 598-613, 2011.		
14	N. B. Crane, O. Onen, J. Carballo, Q. Ni, R. Guldiken. Fluidic assembly at the microscale: progress and prospects. <i>Microfluidics and Nanofluidics</i> , 14 (3-4), 2013, 383-419, http://dx.doi.org/10.1007/s10404-012-1060-1 .	2,665
15	Yong-Jin Liu; Xi Luo; Joneja, A.; Cui-Xia Ma; Xiao-Lan Fu; Dawei Song, "User-Adaptive Sketch-Based 3-D CAD Model Retrieval," <i>Automation Science and Engineering, IEEE Transactions on</i> , vol.10, no.3, pp.783,795, July 2013, doi: 10.1109/TASE.2012.2228481	2,162
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17	Qingsong Xu, "Precision Position/Force Interaction Control of a Piezoelectric Multimorph Microgripper for Microassembly," <i>Automation Science and Engineering, IEEE Transactions on</i> , vol.10, no.3, pp.503,514, July 2013, doi: 10.1109/TASE.2013.2239288	2,162
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19	Qingsong Xu, "Robust Impedance Control of a Compliant Microgripper for High-Speed Position/Force Regulation," <i>Industrial Electronics, IEEE Transactions on</i> , vol.62, no.2, pp.1201,1209, Feb. 2015 doi: 10.1109/TIE.2014.2352605	6,500
TITLU ARTICOL: B. Gavrea, M. Anitescu, F.A. Potra. " <i>Convergence of a Class of Semi-Implicit Time-Stepping schemes for Nonsmooth Rigid Multibody Dynamics</i> ", <i>SIAM Journal on Optimization (SIOPT)</i> , ISSN 1052-6234, 19(2), 969-1001, 2008, doi 10.1137/060675745.		

20	S. Berard, B. Nguyen, K. Anderson, J.C. Trinkle, "Sources of Error in a Simulation of Rigid Parts on a Vibrating Rigid Plate", <i>J. Comput. Nonlinear Dynam</i> 5(4), 041003 (Jun 29, 2010) (14 pages) doi:10.1115/1.4001820	1,402
21	Xue-song Li, Nan-jing Huang, Donal O'Regan, "Differential mixed variational inequalities in finite dimensional spaces", <i>Nonlinear Analysis: Theory, Methods & Applications</i> , Volume 72, Issues 9–10, 2010, Pages 3875-3886, ISSN 0362-546X, http://dx.doi.org/10.1016/j.na.2010.01.025 .	1,612
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23	Lanshan Han , M. Kanat Camlibel , Jong-Shi Pang , W. P. Maurice H. Heemels, "A unified numerical scheme for linear-quadratic optimal control problems with joint control and state constraints", <i>Optimization Methods and Software</i> , 27, 4-5, 761-799, 2012, http://dx.doi.org/10.1080/10556788.2011.593624	1,210
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25	Wei LI, Xing WANG, Nanjing HUANG, "Differential inverse variational inequalities in finite dimensional spaces", <i>Acta Mathematica Scientia</i> , Volume 35, Issue 2, March 2015, Pages 407-422, ISSN 0252-9602, http://dx.doi.org/10.1016/S0252-9602(15)60012-1 .	0,620
TITLU ARTICOL: C. Petra, B. Gavrea, M. Anitescu, F. Potra. "A computational study of the use of an optimization-based method for simulating large multibody systems ". <i>Optimization Methods and Software</i> , ISSN 1055-6788, 24(6), 871-894, 2009, doi 10.1080/10556780902806094.		
26	K. Krabbenhoft, J. Huang, M.Vicente da Silva, A.V. Lyamin, "Granular contact dynamics with particle elasticity", <i>Granular Matter</i> , 14 (5), 607-619, 2012, http://dx.doi.org/10.1007/s10035-012-0360-1 .	1,697
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