

## Fisa de verificare a standardelor minimale – Matematică

### LIST

lucrărilor publicate în reviste ISI cu factor de impact mai mare sau egal cu 0.5 (2014) pentru satisfacerea standardelor minimale pentru funcția de *profesor universitar* în domeniul Matematică (cf. OM 6560/20.12.2012 și 5648/13.12.2013) necesare abilitării

Conf.univ.dr. Constantin BOTA

Punctaj: I = 5.892, I<sub>recent</sub> = 5.242, Citări: C = 83

Nr. crt.	Articol, referința bibliografică	Publicat în anteriorii 7 ani	f <sub>i</sub> (2014)	n <sub>i</sub>	f <sub>i</sub> / n <sub>i</sub>
1.	Bota, Constantin and Bogdan, Căruntu - <i>Approximate Analytical Solutions of the Fractional-Order Brusselator System Using the Polynomial Least Squares Method</i> , Advances in Mathematical Physics, Volume 2015 (2015), 5 pages	x	1.100	2	0.550
2.	Căruntu Bogdan, Bota Constantin - <i>Polynomial Least Squares Method for the Solution of Nonlinear Volterra-Fredholm Integral Equations</i> , Mathematical Problems in Engineering, Volume 2014 (2014), Article ID 147079	x	0.762	2	0.381
3.	Bota Constantin, Căruntu Bogdan, Olivia Bundău - <i>Approximate Periodic Solutions for Oscillatory Phenomena Modeled by Nonlinear Differential Equations</i> , Mathematical Problems in Engineering, Volume 2014 (2014), Article ID 513473	x	0.762	3	0.254
4.	Căruntu Bogdan, Bota Constantin - <i>Approximate Polynomial Solutions of the Nonlinear Lane-Emden Type Equations Arising in Astrophysics Using the Squared Remainder Minization Method</i> , Computer Physics Communications, 2013, Vol (Nr.) 184, pag. 1643-1648	x	3.112	2	1.556

5.	Bota Constantin, Căruntu Bogdan - <i><math>\varepsilon</math>-Approximate polynomial solutions for the multi-pantograph equation with variable coefficients</i> , Applied Mathematics and Computation, 2012, Vol (Nr.) 219, pag. 1785-1792	x	1.551	2	0.776
6.	Căruntu Bogdan, Bota Constantin - <i>Approximate Polynomial Solutions for Nonlinear Heat Transfer Problems Using the Squared Remainder Minimization Method</i> , International Communications in Heat and Mass Transfer, 2012, Vol (Nr.) 39, pag. 1336-1341	x	2.782	2	1.391
7.	Marinca, Vasile; Herisanu, Nicolae; Bota, Constantin; et al.- <i>An Optimal Homotopy Asymptotic Method Applied to the Steady Flow of a Fourth-Grade Fluid Past a Porous Plate</i> , Applied Mathematics Letters, Volume: 22, Issue: 2, Pages: 245-251, Published: 2009	x	1.337	4	0.334
8.	Marinca, Vasile; Herisanu, Nicolae; Bota, Constantin - <i>Application of the variational iteration method to some nonlinear one-dimensional oscillations</i> , MECCANICA, Volume: 43, Issue: 1, Pages: 75-79, Published: 2008		1.949	3	0.650
<b>Total:</b>			<b>I =</b>		<b>5.892</b>
			<b>I<sub>recent</sub> =</b>		<b>5.242</b>

Standarde minime:  $I \geq 5$  și  $I_{\text{recent}} \geq 2.5$

## LISTA

**citărilor în reviste ISI cu factor de impact mai mare de 0.5 (2014), pentru satisfacerea standardelor minimale pentru funcția de *profesor universitar* în domeniul Matematică (cf. OM 6560/20.12.2012 și 5648/13.12.2013) necesare abilitării**

**Conf.univ.dr. Constantin BOTA**

Nr. crt.	Articolul citat	Revista și articolul în care a fost citat	f <sub>i</sub> (2014)
1.	BOTA Constantin, Căruntu Bogdan, <i><math>\varepsilon</math>-Approximate polynomial solutions for the multi-pantograph equation with variable coefficients</i> , Applied Mathematics and Computation, 2012, Vol (Nr.) 219, pag. 1785-1792	Qisheng Wang, Keyan Wang, Shaojun Chen, Least squares approximation method for the solution of Volterra–Fredholm integral equations, Journal of Computational and Applied Mathematics 272 (2014) pag.141–147, DOI: 10.1016/j.cam.2014.05.010	1.266
		Ahmad, Iftikhar; Mukhtar, Areej, Stochastic approach for the solution of multi-pantograph differential equation arising in cell-growth model, APPLIED MATHEMATICS AND COMPUTATION Volume: 261 Pages: 360-372 Published: 2015	1.551
		Ozen, Kemal; Orucoglu, Kamil, A novel approach to construct the adjoint problem for a first-order functional integro-differential equation with general nonlocal condition, LITHUANIAN MATHEMATICAL JOURNAL Volume: 54 Issue: 4 Pages: 482-502 Published: 2014	0.667
2.	Căruntu Bogdan, BOTA Constantin, <i>Approximate polynomial solutions for nonlinear heat transfer problems using the squared remainder minimization method</i> , International Communications in Heat and Mass Transfer, 2012, Vol (Nr.) 39, pag. 1336-1341	Qisheng Wang, Keyan Wang , Shaojun Chen, Least squares approximation method for the solution of Volterra–Fredholm integral equations, Journal of Computational and Applied Mathematics 272 (2014) pag.141–147, DOI: 10.1016/j.cam.2014.05.010	1.266
3.	Căruntu Bogdan, BOTA Constantin, <i>Approximate polynomial solutions of the nonlinear Lane-Emden type equations arising in astrophysics using the squared remainder minimization method</i> , Computer Physics Communications, 2013, Vol (Nr.) 184, pag. 1643-1648	Gurbuz, Burcu; Sezer, Mehmet, Laguerre polynomial approach for solving Lane-Emden type functional differential equations, Applied Mathematics and Computation, Vol. 242 (2014), pag.255-264, DOI: 10.1016/j.amc.2014.05.058	1.551
		Sacchetti, F.; Colonna, N.; Faccini, R.; et al, He-3-free neutron detectors and their applications, European Physical Journal Plus, Volume: 130, Issue: 3, Article Number: 53, Published: 2015	1.377

		Iacono, R.; De Felice, M., Constructing analytic approximate solutions to the Lane-Emden equation, PHYSICS LETTERS A Volume: 379 Issue: 32-33 Pages: 1802-1807 Published: 2015	1.683
		Abd-Elhameed, W. M., New Galerkin operational matrix of derivatives for solving Lane-Emden singular-type equations, EUROPEAN PHYSICAL JOURNAL PLUS Volume: 130 Issue: 3 Article Number: 52 Published: 2015	1.377
		Doha, E. H.; Abd-Elhameed, W. M.; Bassuony, M., ON USING THIRD AND FOURTH KINDS CHEBYSHEV OPERATIONAL MATRICES FOR SOLVING LANE-EMDEN TYPE EQUATIONS, ROMANIAN JOURNAL OF PHYSICS Volume: 60 Issue: 3-4 Pages: 281-292 , Published: 2015	0.924
4.	BOTA Constantin, Căruntu Bogdan, Bereteu Liviu, <i>Approximate polynomial solution of a nonlinear differential equation with applications, Dynamical Systems and Methods</i> , A.C.J. Luo et al. (editors), Topics from the 3rd Conference on Nonlinear Science and Complexity, Ankara, Turkey, 2010, Springer Link, ISBN 978-1-4614-0453-8, p. 169-178, doi : 10.1007/978-1-4614-0454-5	Jacques Demongeot, Olivier Hansen, Ali Hamie, Celine Franco, Brian Sutton, Elie-Paul Cohen, Dynalets: A new method for modelling and compressing biological signals. Applications to physiological and molecular signals, Comptes Rendus Biologies, 337 (2014) 609–624, <a href="http://dx.doi.org/10.1016/j.crv.2014.08.005">http://dx.doi.org/10.1016/j.crv.2014.08.005</a>	0.981
5.	Marinca Vasile, Herisianu Nicolae, BOTA CONSTANTIN, Marinca Bogdan, <i>An optimal homotopy asymptotic method applied to the steady flow of a fourth -grade fluid past a porous plate</i> , Applied Mathematics Letters, Vol. 22(2009), pp. 245-251	Ullah, Hakeem; Islam, Saeed; Khan, Ilyas; et al., Formulation and Application of Optimal Homotopy Asymptotic Method to Coupled Differential - Difference Equations, PLOS ONE, Volume: 10, Issue: 4, Article Number: e0120127, Published: APR 14 201	3.234
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	Zheng, Liancun; Niu, Jiajia; Zhang, Xinxin; Gao, Yingtao - MHD flow and heat transfer over a porous shrinking surface with velocity slip and temperature jump, MATHEMATICAL AND COMPUTER MODELLING Volume: 56 Issue: 5-6 pp: 133-144, Published: 2012	1.412
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	Aziz, T; Moishiki, RJ; Fatima, A - <i>Shock Wave solutions for some nonlinear flow models arising in the study of a non-newtonian third grade fluid</i> , Mathematical al problems in enginnering, 2013	0.762
	Akomari, A.K.; Anakira, NR; Bataineeh, AS; Hashim, I. - <i>Approximate Solution of nonlinear system of BVP Arising in fluid flow problem</i> , Mathematical problems in engineering, 2013	0.762
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	Gul, Taza; Islam, Saeed; Shah, Rehan Ali; et al - <i>Heat Transfer Analysis of MHD Thin Film Flow of an Unsteady Second Grade Fluid Past a Vertical Oscillating Belt</i> , PLOS ONE, Vol.:9, Issue: 11, Article Number: e103843, Published: 2014	3.234
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		Marinca, Vasile; Ene, Remus-Daniel - <i>Analytical approximate solutions to the Thomas-Fermi equation</i> , Central European Journal of Physics, Vol. 12, Issue: 7, Pages: 503-510, Published: 2014	1.085
		Haq, Sirajul; Ishaq, Muhammad - <i>Solution of coupled Whitham-Broer-Kaup equations using optimal homotopy asymptotic method</i> , Ocean Engineering Volume: 84 Pages: 81-88 Published: 2014	1.351
		Gul, Taza; Islam, Saed; Shah, Rehan Ali; et al. - <i>Thin Film Flow in MHD Third Grade Fluid on a Vertical Belt with Temperature Dependent Viscosity</i> , PLOS ONE Volume: 9 Issue: 6 Article Number: e97552 Published: 2014	3.234
		Marinca, Vasile; Herisanu, Nicolae - <i>The Optimal Homotopy Asymptotic Method for solving Blasius equation</i> - Applied Mathematics and Computation Volume: 231 Pages: 134-139 Published: 2014	1.551
		Marinca, Vasile; Ene, Remus-Daniel - <i>Dual Approximate Solutions of the Unsteady Viscous Flow over a Shrinking Cylinder with Optimal Homotopy Asymptotic Method</i> , Advances in Mathematical Physics, Article Number: 417643, Published: 2014	1.100
		Aziz, Taha; Magan, A. B.; Mahomed, F. M. - <i>Invariant Solutions for the Unsteady Magnetohydrodynamics (MHD) Flow of a Fourth-Grade Fluid Induced Due to the Impulsive Motion of a Flat Porous Plate</i> , Brazilian Journal of Physics, Volume: 45, Issue: 1, Pages: 120-131, Published: 2015	0.810
		Qayyum, Mubashir; Khan, Hamid; Rahim, M. Tariq; et al. - <i>Analysis of Unsteady Axisymmetric Squeezing Fluid Flow with Slip and No-Slip Boundaries Using OHAM</i> - Mathematical Problems in Engineering, Article Number: 860857, Published: 2015	0.762
		Liu, QX; Chen, YM; Liu, JK - <i>An Iteration Scheme suitable for solving limit cycles of nonsmooth dynamical systems</i> , Mathematical problems in engineering, 2013	0.762
6.	Marinca Vasile, Herisanu Nicolae, BOTA Constantin <i>Application of the variational method to some nonlinear one-dimensional oscillations</i> , Meccanica, Vol. 43 (2008), pp. 75-79	Ozis, T; Akci, C - <i>Periodic solutions for certain non-smooth oscillatory by iterated homotopy perturbation method combined with modified Lindstedt-Poincaré technique</i> , Meccanica, 2011, Vol. 46, pp. 341-347	1.949
		Herisanu, N; Marinca, V. - <i>Explicit analytical approximation to large-amplitude nonlinear oscillations of a uniform cantilever beam carrying an intermediate lumped mass and rotary inertia</i> , Meccanica, Vol. 45, 2010, pp. 847-855	1.949
		Zhao, YX; Xiao, AG - <i>Variational iteration method for singular perturbation initial value problems</i> , Computer Physics Communications, Vol. 181, 2010, pp. 947-956	3.112

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	<b>Total citări:</b>	<b>83</b>

Nr. minim de citări:  $C \geq 12$

Data:  
8 Iulie 2015

Candidat,  
BOTA Constantin