

STANDARDE MINIMALE- ABILITARE

Nume, prenume: Bucataru, Ioan

Universitatea „Alexandru Ioan Cuza” din Iași,

Facultatea de Matematică

I= 10.0054727

$I_{\text{recent}} = 6.168522868$

C=64

Fișa de verificare a îndeplinirii standardelor minimale pentru Comisia de Matematică. Dintre lucrările publicate, în tabelul de mai jos am prezentat lucrările cu scor relativ de influență mai mare sau egal decât 0,5 și care se încadrează domeniului comisiei de specialitate (sunt indexate în bazele de date: Mathematical Reviews și Zentralblatt Math)

Lucrări:

Numărul publicației	Referința bibliografică	Publicat în ultimii 7 ani (DA sau NU)	s_i	n_i	s_i/n_i
1	Bucataru, I., Muzsnay, Z.: Projective metrizable and formal integrability, Symmetry Integrability and Geometry: Methods and Applications (ISSN: 1815-0659), 7(2011), 22 p.	Da	0.64335	2	0.321673525
2	Bucataru, I., Constantinescu, O.A., Dahl, M.F.: A geometric setting for systems of ordinary differential equations, International Journal of Geometric Methods in Modern Physics (ISSN: 0219-8878), 8 (6) (2011), 1291-1327	Da	0.62140	3	0.207133333
3	Bucataru, I., Dahl, M.F.: Descending maps between slashed tangent bundles, Publicationes Mathematicae – Debrecen (ISSN: 0033-3883), 79 (1-2), 2011, 15, 231-250	Da	0.53419	2	0.267094017
4	Bucataru, I., Constantinescu, O.: Helmholtz conditions and symmetries for the time dependent case of the inverse problem of the calculus of variations, Journal of Geometry and Physics (ISSN: 0393-0440), vol. 60, no 11 (2010), 1710-1725	Da	0.78571	2	0.392857143
5	Bucataru, I., Dahl, M.F.: A complete lift for semisprays, International Journal of Geometric Methods in Modern Physics (ISSN: 0219-8878), vol. 7, no 2 (2010).	Da	0.62140	2	0.3107
6	Bucataru, I., Miron, R.: The geometry of systems of third order differential equations induced by second order Lagrangians, Mediterranean Journal of Mathematics (ISSN: 1660-5446), 6, 4(2009), 483-500	Da	0.65683	2	0.328416149

7	Bucataru, I., Slawinski, M.A.: Invariant properties for finding distance in space of elasticity tensors, Journal of Elasticity (ISSN: 0374-3535), 94, 2(2009), 97-114	Da	2.20110	2	1.100550964
8	Bona, A., Bucataru, I., Slawinski, M.A.: Space of SO(3)-orbits of elasticity tensors, Archives of Mechanics (ISSN: 0373-2029), 60, 2(2008), 123-138	Da	0.83919	3	0.279728897
9	Bucataru, I.: Canonical semispray for higher order Lagrange spaces, Comptes Rendu Mathematique Acad. Sci. Paris, Ser. I (ISSN: 1631-073X), 345(2007), 269-272	Da	0.74501	1	0.74501
10	Bucataru, I.: Metric nonlinear connections, Differential Geometry and its Applications (ISSN: 0926-2245), 25, 3 (2007), 335-343	Da	0.81832	1	0.81832
11	Bona, A., Bucataru, I., Slawinski, M.A.: Material symmetries versus wavefront symmetries, The Quarterly Journal of Mechanics and Applied Mathematics (ISSN: 0033-5614), 60, 2(2007), 73-84	Da	1.07436	3	0.358121331
12	Bona, A., Bucataru, I., Slawinski, M.A.: Coordinate-free Characterization of Symmetry Classes of Elasticity Tensors, Journal of Elasticity (ISSN: 0374-3535), 87, 2-3(2007): 109-132	Da	2.20110	3	0.733700643
13	Bucataru, I., Miron, R.: Nonlinear connections for nonconservative mechanical systems, Reports on Mathematical Physics (ISSN: 0034-4877), 59, 2(2007), 225-241	Da	0.61043	2	0.30521262
14	Bucataru, I.: Linear connections for systems of higher order differential equations, Houston Journal of Mathematics (ISSN: 0362-1588), 31, 2(2005), 315-332	Nu	0.66952	1	0.66952
15	Bucataru, I., Slawinski, M.A.: Generalized orthogonality between rays and wavefronts in anisotropic inhomogeneous media. Nonlinear Analysis: Real World Applications (ISSN: 1468-1218), 6(2005), 111-121	Nu	0.9705	2	0.48525
16	Bona, A., Bucataru, I., Slawinski, M.A.: Characterization of Elasticity-Tensor Symmetries Using SU(2). Journal of Elasticity (ISSN: 0374-3535), 75, 3(2004), 267-289	Nu	2.20110	3	0.733700643
17	Bona, A., Bucataru, I., Slawinski, M.A.: Material symmetry of elasticity tensors. Quarterly Journal of Mechanics and Applied Mathematics (ISSN: 0033-5614), 57, 4(2004), 583-598	Nu	1.07436	3	0.358121331
18	Bucataru, I., Epstein, M.: Geometrical theory of dislocations in bodies with microstructure. Journal of Geometry and Physics (ISSN: 0393-0440), 52, 1(2004),	Nu	0.78571	2	0.392857143

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19	Antonelli, P.L., Bucataru, I., Rutz, S.F.: Computer algebra and two and three- dimensional Finsler Spaces. Publicationes Mathematicae Debrecen (ISSN: 0033- 3883), 62(2003), 289-313	Nu	0.53419	3	0.178062678
20	Antonelli, P.L., Bucataru, I.: Volterra- Hamilton production models with discounting; general theory and worked examples. Nonlinear Analysis: Real World Applications (ISSN: 1468-1218), 2(2001), 337-356	Nu	0.9705	2	0.48525
21	Bucataru, I.: Horizontal lifts in the higher order geometry. Publicationes Mathematicae Debrecen (ISSN: 0033- 3883), vol.56, 1-2(2000), 21-32	Nu	0.53419	1	0.53419
Total:				I =	10.0054727
				I _{recent} =	6.168522868

Citări:

Numărul publicației care citează	Referința bibliografică a publicației care citează	Si
TITLU ARTICOL: Bucataru, I., Constantinescu, O.: Helmholtz conditions and symmetries for the time dependent case of the inverse problem of the calculus of variations, Journal of Geometry and Physics, vol. 60, no 11 (2010), 1710-1725		
1	Sarlet W.; Prince G.; Mestdag T., Krupkova, O: Time-dependent kinetic energy metrics for Lagrangians of electromagnetic type, JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL, Volume: 45, Issue: 8, Article Number: 085208, DOI: 10.1088/1751-8113/45/8/085208, Published: MAR 2 2012	1.54734
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2.	Sarlet W.; Prince G.; Mestdag T., Krupkova, O: Time-dependent kinetic energy metrics for Lagrangians of electromagnetic type, JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL, Volume: 45, Issue: 8, Article Number: 085208, DOI: 10.1088/1751-8113/45/8/085208, Published: MAR 2 2012	1.54734
3	Rami El-Nabulsi Ahmad: A periodic functional approach to the calculus of variations and the problem of time-dependent damped harmonic oscillators, APPLIED MATHEMATICS LETTERS Volume: 24 Issue: 10 Pages: 1647-1653, Published: OCT 2011	0.74689
4	Mestdag T.; Sarlet W.; Crampin M.: The inverse problem for Lagrangian systems with certain non-conservative forces, DIFFERENTIAL GEOMETRY AND ITS APPLICATIONS Volume: 29 Issue: 1, Pages: 55-72, Published: FEB 2011	0.81832
5	Sarlet W, Prince G: Alternative kinetic energy metrics for Lagrangian systems, JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL, Volume: 43, Issue: 44, Article Number: 445204, Published: NOV 5 2010	1.54734
TITLU ARTICOL: Bucataru, I., Slawinski, M.A.: Invariant properties for finding distance in space of elasticity tensors, Journal of Elasticity, 94, 2(2009), 97-114		
6	Guilleminot, J; Soize C.: Stochastic modeling of anisotropy in multiscale analysis of heterogeneous materials: A comprehensive overview on random matrix approaches, MECHANICS OF MATERIALS, Volume: 44, Pages: 35-46, DOI: 10.1016/j.mechmat.2011.06.003, Published: JAN 2012	2.44301
7	Guilleminot J, Soize C: A stochastic model for elasticity tensors with uncertain material symmetries, INTERNATIONAL JOURNAL OF SOLIDS AND STRUCTURES, Volume: 47 Issue: 22-23 Pages: 3121-3130, Published: NOV 2010	1.82192
TITLU ARTICOL: Bona, A., Bucataru, I., Slawinski, M.A: Inversion of ray velocity and polarization for elasticity tensor, Journal of Applied Geophysics, 65, 1(2008), 1-5		
8	Lebedev, M.; Bona A.; Pevzner, R.; Gurevich, B: Elastic anisotropy estimation from laboratory measurements of velocity and polarization of quasi-P-waves using laser interferometry, GEOPHYSICS, Volume: 76, Issue: 3, Pages: WA83-WA89 DOI: 10.1190/1.3569110 Published: MAY-JUN 2011	0.76060
TITLU ARTICOL: Bona, A., Bucataru, I., Slawinski, M.A: Space of SO(3)-orbits of elasticity tensors, Archives of Mechanics, 60, 2(2008), 123-138		
9	Ahmad Faiz; Khan Riaz Ahmad: Eigenvectors of a rotation matrix, QUARTERLY JOURNAL OF MECHANICS AND APPLIED	1.07436

	MATHEMATICS, Volume: 62, Issue: 3, Pages: 297-310 DOI: 10.1093/qjmam/hbp009, Published: AUG 2009	
10	Kowalczyk-Gajewska K.: Bounds and self-consistent estimates of overall properties for random polycrystals described by linear constitutive laws, ARCHIVES OF MECHANICS, Volume: 61, Issue: 6, Pages: 475-503, Published: 2009	0.83919
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11	Guilleminot Johann; Soize Christian: Stochastic modeling of anisotropy in multiscale analysis of heterogeneous materials: A comprehensive overview on random matrix approaches, MECHANICS OF MATERIALS, Volume: 44, Special Issue: SI Pages: 35-46 DOI: 10.1016/j.mechmat.2011.06.003 Published: JAN 2012	2.44301
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13	Le Quang H.; He Q. -C.: The number and types of all possible rotational symmetries for flexoelectric tensors, PROCEEDINGS OF THE ROYAL SOCIETY A-MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES, Volume: 467, Issue: 2132, Pages: 2369-2386, DOI: 10.1098/rspa.2010.0521, Published: AUG 8 2011	1.88182
14	Diner Cagri; Kochetov Mikhail; Slawinski Michael A.: On Choosing Effective Symmetry Classes for Elasticity Tensors, QUARTERLY JOURNAL OF MECHANICS AND APPLIED MATHEMATICS, Volume: 64, Issue: 1, Pages: 57-74 DOI: 10.1093/qjmam/hbq023, Published: FEB 2011	1.07436
15	Diner Cagri; Kochetov Mikhail; Slawinski Michael A.: Identifying Symmetry Classes of Elasticity Tensors Using Monoclinic Distance Function, JOURNAL OF ELASTICITY, Volume: 102, Issue: 2, Pages: 175-190, DOI: 10.1007/s10659-010-9272-7, Published: FEB 2011	2.20110
16	Guilleminot Johann; Soize Christian: A stochastic model for elasticity tensors with uncertain material symmetries, INTERNATIONAL JOURNAL OF SOLIDS AND STRUCTURES, Volume: 47, Issue: 22-23, Pages: 3121-3130, DOI: 10.1016/j.ijsolstr.2010.07.013, Published: NOV 2010	1.82192
17	Ahmad Faiz; Khan Riaz Ahmad: Eigenvectors of a rotation matrix, QUARTERLY JOURNAL OF MECHANICS AND APPLIED MATHEMATICS, Volume: 62, Issue: 3, Pages: 297-310, DOI: 10.1093/qjmam/hbp009 Published: AUG 2009	1.07436
18	Ghiba I. -D.: On the deformation of transversely isotropic porous elastic circular cylinder, ARCHIVES OF MECHANICS, Volume: 61, Issue: 5, Pages: 407-421, Published: 2009	0.83919
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20	Punzi Raffaele; Wohlfarth Mattias N. R.: Geometry and stability of dynamical systems, PHYSICAL REVIEW E, Volume: 79, Issue: 4, Article Number: 046606, DOI: 10.1103/PhysRevE.79.046606, Published: APR 2009	1.43073

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21	Pfeifer Christian; Wohlfarth Mattias N. R.: Finsler geometric extension of Einstein, PHYSICAL REVIEW D, Volume: 85, Issue: 6, Article Number: 064009, 2012	1.64183
22	Laleh Abolghasem; Rezaii Morteza M.; Hushmandi Ataabak Baagherzadeh: TOTALLY GEODESIC SUBMANIFOLDS OF GL-MANIFOLDS, INTERNATIONAL JOURNAL OF GEOMETRIC METHODS IN MODERN PHYSICS, Volume: 9 Issue: 1 Article Number: 1250002, 2012	0.62140
23	Yajima Takahiro; Yamasaki Kazuhito; Nagahama Hiroyuki: Finsler metric and elastic constants for weak anisotropic media, NONLINEAR ANALYSIS-REAL WORLD APPLICATIONS, Volume: 12, Issue: 6, Pages: 3177-3184, 2011	0,9605
24	Wanas M. I.; Kamal Mona M.: AN AP-STRUCTURE WITH FINSLERIAN FLAVOR II: TORSION, CURVATURE AND OTHER OBJECTS, MODERN PHYSICS LETTERS A Volume: 26 Issue: 27 Pages: 2065-2078, Published: SEP 7 2011	0,55713
25	Pfeifer Christian; Wohlfarth Mattias N. R.: Causal structure and electrodynamics on Finsler spacetimes, PHYSICAL REVIEW D, Volume: 84 Issue: 4 Article Number: 044039 DOI: 10.1103/PhysRevD.84.044039 Published: AUG 12 2011	1.64183
26	Rezaii M. M.; Alipour-Fakhri Y.: ON PROJECTIVELY RELATED WARPED PRODUCT FINSLER MANIFOLDS, INTERNATIONAL JOURNAL OF GEOMETRIC METHODS IN MODERN PHYSICS, Volume: 8 Issue: 5 Pages: 953-967, Published: AUG 2011	0,62610
27	Alipour-Fakhri Y.; Rezaii M. M.: The warped Sasaki-Matsumoto metric and bundlelike condition, JOURNAL OF MATHEMATICAL PHYSICS, Volume: 51 Issue: 12, Article Number: 122701, Published: DEC 2010	0,83164
28	Yajima, T., Nagahama, H.: Tangent bundle viewpoint of the Lorenz system and its chaotic behavior, PHYSICS LETTERS A, Volume: 374, Issue: 11-12, Pages: 1315-1319 Published: MAR 1 2010	1,59679
29	Yajima, T., Nagahama, H.: Differential geometry of viscoelastic models with fractional-order derivatives, JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL, Volume: 43 Issue: 38, Article Number: 385207, Published: SEP 24 2010.	1.54734
30	Vacaru SI: Spectral functionals, nonholonomic Dirac operators, and noncommutative Ricci flows, JOURNAL OF MATHEMATICAL PHYSICS, Volume: 50 Issue: 7 Article Number: 073503 Published: JUL 2009	0,83164
31	Yajima T, Nagahama H: Finsler geometry of seismic ray path in anisotropic media, PROCEEDINGS OF THE ROYAL SOCIETY A-MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES Volume: 465 Issue: 2106 Pages: 1763-1777 Published: JUN 8 2009	1,87853
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32	Bona Andrej; Nadri Dariush; Brajanovski Miroslav: Thomsen's parameters from p-wave measurements in a spherical sample, GEOPHYSICAL PROSPECTING, Volume: 60, Issue: 1, Pages: 103-116, DOI: 10.1111/j.1365-2478.2010.00917.x, Published: JAN 2012	0.79480
33	Nadri Dariush; Bona Andrej; Brajanovski Miroslav; et al.: Estimation of stress-dependent anisotropy from P-wave measurements on a spherical sample, GEOPHYSICS, Volume: 76, Issue: 3, Pages: WA91-WA100, DOI:	0.76060

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34	Yajima Takahiro; Yamasaki Kazuhito; Nagahama Hiroyuki: Finsler metric and elastic constants for weak anisotropic media, NONLINEAR ANALYSIS-REAL WORLD APPLICATIONS, Volume: 12, Issue: 6, Pages: 3177-3184, DOI: 10.1016/j.nonrwa.2011.05.018, Published: DEC 2011	0.97050
35	Miklashevich Ihar A.: Energy storage and geo-massif fracture, NONLINEAR ANALYSIS-REAL WORLD APPLICATIONS, Volume: 10, Issue: 5, Pages: 2939-2944, DOI: 10.1016/j.nonrwa.2008.09.012, Published: OCT 2009	0.97050
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43	Kochetov Mikhail; Slawinski Michael A.: On obtaining effective orthotropic elasticity tensors, QUARTERLY JOURNAL OF MECHANICS AND APPLIED MATHEMATICS, Volume: 62, Issue: 2, Pages: 149-166, DOI: 10.1093/qjmam/hbp001, Published: MAY 2009	1.07436
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50	Moakher Maher; Norris Andrew N.: The closest elastic tensor of arbitrary symmetry to an elasticity tensor of lower symmetry, JOURNAL OF ELASTICITY, Volume: 85, Issue: 3, Pages: 215-263, DOI: 10.1007/s10659-006-9082-0, Published: DEC 2006	2.20110
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