

UNIVERSITATEA "ALEXANDRU IOAN CUZA", IAȘI

FACULTATEA DE MATEMATICĂ

DEPARTAMENTUL DE MATEMATICĂ

Concurs pentru ocuparea postului de Lector universitar, poz. 39

Disciplinele postului: Calcul științific; Algebră liniară; Soft matematic; Mecanică; Practică pedagogică

## FIȘA DE AUTOEVALUARE

generală a standardelor minimale ale universității pentru prezentarea la concursul pentru postul de  
Lector universitar publicat Monitorul Oficial nr. 1647 din 24.11.2017

Candidat: **Ionel-Dumitrel GHIBA**

Data nașterii: 27.12.1982

Funcția actuală: asistent universitar dr.

Data numirii în funcția actuală: 01.11.2011

Instituția: Universitatea Alexandru Ioan Cuza din Iași

Total puncte obținute: **5204.525**

CRITERII	DESCRIPTORI	PUNCTAJE ACORDATE	PUNCTE OBȚINUTE
<b>I. ACTIVITATEA DE CERCETARE (70%)</b>	<b>1. Articole științifice publicate <i>in extenso</i> în reviste cotate <i>Web of Science</i> cu factor de impact</b>	(60 puncte x factor de impact + 25) / număr autori	3095.259 puncte
	[L1] I.D. Ghiba, R.J. Martin, P. Neff. Rank-one convexity implies polyconvexity in isotropic planar incompressible elasticity, Journal de Mathématiques Pures et Appliqués, sub tipar, 2017. (SRI 2016: 3.117, IF 2016: 1.802)	[L1] 0 puncte (nepublicat)	
	[L2] R.J. Martin, I.D. Ghiba, P. Neff. Rank-one convexity implies polyconvexity for isotropic, objective and isochoric elastic energies in the two-dimensional case,	[L2] 31.493 puncte	

CRITERII	DESCRIPTORI	PUNCTAJE ACORDATE	PUNCTE OBTINUTE
	<p>Proceedings of the Royal Society of Edinburgh, Section: A Mathematics 147 (3), pp. 571-597, 2017. (SRI 2016: 1.616, IF 2016: 1.158)</p> <p>[L3] G. Barbagallo, M.V. D'Agostino, R. Abreu, I.D. Ghiba, A. Madeo, P. Neff. Transparent anisotropy for the relaxed micromorphic model: macroscopic consistency conditions and long wave length asymptotics, International Journal of Solids and Structures, 120, pp. 7-30, 2017. (SRI 2016: 1.915, IF 2016: 2.76)</p> <p>[L4] I.D. Ghiba, P. Neff, A. Madeo, I. Munch. A variant of the linear isotropic indeterminate couple stress model with symmetric local force-stress, symmetric nonlocal force-stress, symmetric couple-stresses and complete traction boundary conditions, Mathematics and Mechanics of Solids 22, pp. 1221-1266, 2017. (SRI 2016: 1.328, IF 2016: 2.953)</p> <p>[L5] I. Munch, P. Neff, A. Madeo, I.D. Ghiba. The modified indeterminate couple stress model: Why Yang et al.'s arguments motivating a symmetric couple stress tensor contain a gap and why the couple stress tensor may be chosen symmetric nevertheless, ZAMM, 97, pp. 1524-1554, 2017. (SRI 2016: 1.207, IF 2016: 1.332)</p> <p>[L6] M. V. d'Agostino, G. Barbagallo, I.D. Ghiba, A. Madeo, P. Neff. A panorama of dispersion curves for the weighted isotropic relaxed micromorphic model, ZAMM, 97, pp. 1436-1481, 2017. (SRI 2016: 1.207, IF 2016: 1.332)</p> <p>[L7] P. Neff, A. Madeo, G. Barbagallo, M.V. D'Agostino, R. Abreu, I.D. Ghiba. Real wave propagation in the isotropic-relaxed micromorphic model, Proceedings of the Royal Society A 473, doi: 10.1098/rspa.2016.0790, 2017. (SRI 2016: 2.223, IF 2016: 2.146)</p> <p>[L8] A. Madeo, P. Neff, I.D. Ghiba, G. Rosi. Reflection and transmission of elastic waves at interfaces embedded in non-local band-gap metamaterials: a</p>	<p>[L3] 31.766 puncte</p> <p>[L4] 50.545 puncte</p> <p>[L5] 26.23 puncte</p> <p>[L6] 20.984 puncte</p> <p>[L7] 25.626 puncte</p> <p>[L8] 70.075 puncte</p>	

CRITERII	DESCRIPTORI	PUNCTAJE ACORDATE	PUNCTE OBTINUTE
	comprehensive study via the relaxed micromorphic model, Journal of the Mechanics and Physics of Solids, 95, pp. 441-479, 2016. (SRI 2016: 4.399, IF 2016: 4.255)		
	[L9] A. Madeo, I.D. Ghiba, P. Neff, I. Munch. A new view on boundary conditions in the Grioli-Koiter-Mindlin-Toupin indeterminate couple stress model, European Journal of Mechanics A/Solids, 59, pp. 294-322, 2016. (SRI 2016: 1.704, IF 2016: 2.846)	[L9] 48.94 puncte	
	[L10] P. Neff, I. Munch, I.D. Ghiba, A. Madeo. On some fundamental misunderstandings in the indeterminate couple stress model. A comment on recent papers of A.R. Hadjesfandiari and G.F. Dargush, International Journal of Solids and Structures 81, pp. 233-243, 2016. (SRI 2016: 1.915, IF 2016: 2.76)	[L10] 47.65 puncte	
	[L11] P. Neff, I.D. Ghiba. Loss of ellipticity in additive logarithmic finite strain plasticity, International Journal of Non-Linear Mechanics, 81, pp. 122-128, 2016. (SRI 2016: 1.364, IF 2016: 2.074)	[L11] 74.72 puncte	
	[L12] P. Neff, I.D. Ghiba. The exponentiated Hencky-logarithmic strain energy. Part III: Coupling with idealized isotropic finite strain plasticity, Continuum Mechanics and Thermodynamics, 28, pp. 477-487, 2016. (SRI 2016: 1.808, IF 2016: 2.529)	[L12] 88.37 puncte	
	[L13] I.D. Ghiba, P. Neff, R.J. Martin. An ellipticity domain for the distortional Hencky-logarithmic strain energy, Proceedings of the Royal Society A 471, doi: 10.1098/rspa.2015.0510, 2016. (SRI 2016: 2.223, IF 2016: 2.146)	[L13] 51.253 puncte	
	[L14] I.D. Ghiba, P. Neff, M. Silhavy. The exponentiated Hencky-logarithmic strain energy. Improvement of the proof of planar polyconvexity, International Journal of Non-Linear Mechanics, 71, pp. 48-51, 2015. (SRI 2016: 1.364, IF 2016: 2.074)	[L14] 49.813 puncte	
	[L15] P. Neff, J. Lankeit, I.D. Ghiba, R. Martin, D. Steigmann. The exponentiated	[L15] 25.244 puncte	

CRITERII	DESCRIPTORI	PUNCTAJE ACORDATE	PUNCTE OBTINUTE
	<p>Hencky-logarithmic strain energy. Part II: Coercivity, planar polyconvexity and existence of minimizers, ZAMP, 66, pp. 1671-1693, 2015. (SRI 2016: 1.213, IF 2016: 1.687)</p> <p>[L16] P. Neff, I.D. Ghiba, J. Lankeit. The exponentiated Hencky-logarithmic strain energy. Part I: Constitutive issues and rank-one convexity, Journal of Elasticity, 121, pp. 143-234, 2015. (SRI 2016: 2.044, IF 2016: 1.909)</p> <p>[L17] A. Madeo, P. Neff, I.D. Ghiba, L. Placidi, G. Rosi. Band gaps in the relaxed linear micromorphic continuum, ZAMM, 95, pp. 880-887, 2015. (SRI 2016: 1.207, IF 2016: 1.332)</p> <p>[L18] I.D. Ghiba, P. Neff, A. Madeo, L. Placidi, G. Rosi. The relaxed linear micromorphic continuum: existence, uniqueness and continuous dependence in dynamics, Mathematics and Mechanics of Solids, 68, pp. 53-84, 2015. (SRI 2016: 1.328, IF 2016: 2.953)</p> <p>[L19] A. Madeo, P. Neff, I.D. Ghiba, L. Placidi, G. Rosi. Wave propagation in relaxed micromorphic continua: modelling metamaterials with frequency band-gaps, Continuum Mechanics and Thermodynamics, 27, pp. 551-570, 2015. (SRI 2016: 1.808, IF 2016: 2.529)</p> <p>[L20] P. Neff, I.D. Ghiba, M. Lazar, A. Madeo. The relaxed linear micromorphic continuum: well-posedness of the static problem and relations to the gauge theory of dislocations, Quarterly Journal of Mechanics and Applied Mathematics, 68 (1), pp. 53-84, 2015. (SRI 2016: 1.229, IF 2016: 1.213)</p> <p>[L21] I.D. Ghiba, E. Bulgariu. On spatial evolution of the solution of a non-standard problem in the bending theory of elastic plates, IMA Journal of Applied Mathematics, 80 (2), pp. 452-473, 2015. (SRI 2016: 0.875, IF 2016: 0.945)</p>	<p>[L16] 46.513 puncte</p> <p>[L17] 20.984 puncte</p> <p>[L18] 40.436 puncte</p> <p>[L19] 35.348 puncte</p> <p>[L20] 24.445 puncte</p> <p>[L21] 40.85 puncte</p>	

CRITERII	DESCRIPTORI	PUNCTAJE ACORDATE	PUNCTE OBTINUTE
	<p>[L22] P. Neff, I.D. Ghiba, A. Madeo, L. Placidi, G. Rosi. A unifying perspective: the relaxed linear micromorphic continuum, Continuum Mechanics and Thermodynamics, 26, pp, 639-681, 2014. (SRI 2016: 1.808, IF 2016: 2.529)</p> <p>[L23] E. Bulgariu, I.D. Ghiba. On the thermal stresses in anisotropic porous cylinders, Discrete and Continuous Dynamical Systems - Series S, 6, December, pp. 1539-1550, 2013. (SRI 2016: necalculat, IF 2016: 0.781)</p> <p>[L24] I.D. Ghiba. On the spatial behaviour in bending theory of porous thermoelastic plates. Journal of Mathematical Analysis and Applications, 403, pp. 129-142, 2013. (SRI 2016: 1.125, IF 2016: 1.064)</p> <p>[L25] I.D. Ghiba, C. Galeş. Some qualitative results in the linear theory of micropolar solid-solid mixtures, Journal of Thermal Stresses, 36, pp. 426-445, 2013. (SRI 2016: 1.000, IF 2016: 1.493)</p> <p>[L26] I.D. Ghiba. On the temporal behaviour in the bending theory of porous thermoelastic plates, ZAMM, 93, pp. 284-296, 2013. (SRI 2016: 1.207, IF 2016: 1.332)</p> <p>[L27] I.D. Ghiba, C. Galeş. On the fundamental solutions for micropolar fluid-fluid mixtures under steady state vibrations, Applied Mathematics and Computation, 219, pp. 2749-2759, 2012. (SRI 2016: 0.733, IF 2016: 1.738)</p> <p>[L28] S. Chiriță, I.D. Ghiba. Rayleigh waves in Cosserat elastic materials, International Journal of Engineering Science, 51, pp. 117-127, 2012. (SRI 2016: 2.646, IF 2016: 4.261)</p> <p>[L29] C. Galeş, I.D. Ghiba, I. Ignătescu. Asymptotic partition of energy in micromorphic thermopiezoelectricity, Journal of Thermal Stresses, 34, pp. 1241-1249, 2011. (SRI 2016: 1.000, IF 2016: 1.493)</p>	<p>[L22] 35.348 puncte</p> <p>[L23] 35.93 puncte</p> <p>[L24] 88.84 puncte</p> <p>[L25] 57.29 puncte</p> <p>[L26] 104.92 puncte</p> <p>[L27] 64.64 puncte</p> <p>[L28] 140.33 puncte</p> <p>[L29] 38.193 puncte</p>	

CRITERII	DESCRIPTORI	PUNCTAJE ACORDATE	PUNCTE OBTINUTE
	[L30] I.D. Ghiba. On the steady vibrations problem in linear theory of micropolar solid-fluid mixture, European Journal of Mechanics A/Solids, 30, pp. 584-593, 2011. (SRI 2016: 1.704, IF 2016: 2.846)	[L30] 195.76 puncte	
	[L31] I.D. Ghiba. On the thermal theory of micropolar solid-fluid mixture, Journal of Thermal Stresses, 34, pp. 1-17, 2011. (SRI 2016: 1.000, IF 2016: 1.493)	[L31] 114.58 puncte	
	[L32] C. Galeş, I.D. Ghiba. On uniqueness and continuous dependence of solutions in viscoelastic mixtures, Meccanica, 45, pp. 901-909, 2011. (SRI 2016: 0.891, IF 2016: 2.196)	[L32] 78.38 puncte	
	[L33] I.D. Ghiba. Representation theorems and fundamental solutions for micropolar solid-fluid mixtures under steady state vibrations, European Journal of Mechanics A/Solids, 29, pp. 1034-1041, 2010. (SRI 2016: 1.704, IF 2016: 2.846)	[L33] 195.76 puncte	
	[L34] S. Chiriță, I.D. Ghiba. Inhomogeneous plane waves in elastic materials with voids, Wave Motion, 47, pp. 333-342, 2010. (SRI 2016: 1.415, IF 2016: 1.575)	[L34] 59.75 puncte	
	[L35] S. Chiriță, I.D. Ghiba. Strong ellipticity and progressive waves in elastic materials with voids, Proceedings of the Royal Society A, 466, pp. 439-458, 2010. (SRI 2016: 2.223, IF 2016: 2.146)	[L35] 76.88 puncte	
	[L36] I.D. Ghiba. On the deformation of transversely isotropic porous elastic circular cylinder, Archive of Mechanics, 61, pp. 407-421, 2009. (SRI 2016: 1.030, IF 2016: 1.157)	[L36] 94.42 puncte	
	[L37] I.D. Ghiba. Some uniqueness and stability results in the theory of micropolar solid-fluid mixture, Journal of Mathematical Analysis and Applications, 335, pp. 385-396, 2009. (SRI 2016: 1.125, IF 2016: 1.064)	[L37] 88.84 puncte	
	[L38] S. Chiriță, C. Galeş, I.D. Ghiba. On spatial behavior of the harmonic vibrations in Kelvin-Voigt materials, Journal of Elasticity, 93, pp. 81-92, 2008. (SRI 2016:		

CRITERII	DESCRIPTORI	PUNCTAJE ACORDATE	PUNCTE OBTINUTE
	<p>2.044, IF 2016: 1.909)</p> <p>[L39] I.D. Ghiba. Spatial estimates concerning the harmonic vibrations in rectangular plates with voids, Archives of Mechanics, 60, pp. 263-279, 2008. (SRI 2016: 1.030, IF 2016: 1.157)</p> <p>[L40] I.D. Ghiba. Asymptotic partition of energy in micropolar mixture theory of porous media, Meccanica, 43, pp. 639-649, 2008. (SRI 2016: 0.891, IF 2016: 2.196)</p> <p>[L41] I.D. Ghiba. Semi-inverse solution for Saint-Venant's problem in the theory of porous elastic materials, European Journal of Mechanics - A/Solids, 27, pp. 1060-1074, 2008. (SRI 2016: 1.704, IF 2016: 2.846)</p> <p>[L42] I.D. Ghiba. Some uniqueness and continuous dependence results in the micropolar mixture theory of porous media, International Journal of Engineering Science, 44, pp. 1269-1279, 2006. (SRI 2016: 2.646, IF 2016: 4.261)</p>	<p>[L38] 46.513 puncte</p> <p>[L39] 94.42 puncte</p> <p>[L40] 156.76 puncte</p> <p>[L41] 195.76 puncte</p> <p>[L42] 280.66 puncte</p>	
	<p><b>2.</b> Articole științifice publicate <i>in extenso</i> în reviste indexate <i>Web of Science</i> fără factor de impact</p>	20 puncte / număr autori	X
	<p><b>3.</b> Articole științifice publicate <i>in extenso</i> în reviste indexate BDI</p> <p>[L43] I.D. Ghiba, C. Gales. A uniqueness result for the motion of micropolar solid-fluid mixtures in unbounded domain, Ann. Univ. Ferrara, 57, pp. 275-286, 2011.</p> <p>[L44] I.D. Ghiba. On the spatial behaviour of harmonic vibrations in an elastic cylinder,</p>	<p>15 puncte / număr autori</p> <p>[L43] 7.5 puncte</p> <p>[L44] 15 puncte</p>	22.5 puncte

CRITERII	DESCRIPTORI	PUNCTAJE ACORDATE	PUNCTE OBTINUTE
	An. șt. Univ. Iași, Secț. Matematică, LII, f.1, pp. 75-86, 2006.		
	4. Articole științifice publicate <i>in extenso</i> în volumele conferințelor	indexate ISI: 30 puncte / număr autori	X
	[L45] A. Madeo, P. Neff, G. Barbagallo, M.V. D'Agostino, I.D. Ghiba. A review on wave propagation modeling in band-gap metamaterials via enriched continuum models, In F. dell'Isola, M. Sofonea and D. Steigmann (eds), Mathematical Modelling in Solid Mechanics, Volume 69 of the series Advanced Structured Materials, pp. 89-105, Springer, 2017.	indexate în BDI: 15 puncte / număr autori [L45] 3 puncte	48 puncte
	[L46] P. Neff, I.D. Ghiba. Comparison of isotropic elasto-plastic models for the plastic metric tensor $\mathcal{C}_p = F_p^{TF} p$ , In K. Weinberg and A. Pandol (eds), Innovative Numerical Approaches for Multi-Field and Multi-Scale Problems, Volume 81 of Lecture Notes in Applied and Computational Mechanics, pp. 161-195, Springer, 2016.	[L46] 7.5 puncte	
	[L47] I.D. Ghiba, P. Neff, R.J. Martin. Loss of ellipticity in additive logarithmic finite strain plasticity and related results on Hencky-type energies. PAMM-Proc. Appl. Math. Mech. 16, pp. 341-342, 2016.	[L47] 5 puncte	
	[L48] P. Neff, I.D. Ghiba, A. Madeo, I. Munch. Null-Lagrangians and the indeterminate couple stress model, PAMM-Proc. Appl. Math. Mech. 16, pp. 379-380, 2016.	[L48] 3.75 puncte	
	[L49] R.J. Martin, P. Neff and I.D. Ghiba. Rank-one convexity implies polyconvexity for isotropic, objective and isochoric elastic energies in the two-dimensional case, PAMM-Proc. Appl. Math. Mech. 16, pp. 659-660, 2016.	[L49] 5 puncte	
	[L50] P. Neff, I.D. Ghiba, J. Lankeit, R. Martin. Rank-one convexity and polyconvexity		



CRITERII	DESCRIPTORI	PUNCTAJE ACORDATE	PUNCTE OBTINUTE
	<p>of Hencky-type energies, PAMM-Proc. Appl. Math. Mech. 14, pp. 735-736, 2014.</p> <p>[L51] I.D. Ghiba, P. Neff, A. Madeo. The relaxed micromorphic continuum model, PAMM-Proc. Appl. Math. Mech. 14, pp. 733-734, 2014.</p> <p>[L52] I.D. Ghiba. Existence and uniqueness results in the micropolar mixture theory of porous media. In O. Cârjă, I. Vrabie (eds.), Applied analysis and differential equations, pp. 139-152. World Scientific, 2007.</p>	<p>[L50] 3.75 puncte</p> <p>[L51] 5 puncte</p> <p>[L52] 15 puncte</p>	
	<b>5. Cărți științifice publicate (doar prima ediție)</b>	edituri academice internaționale: 100 puncte la 100 pagini / număr autori	X
		alte edituri internaționale: 70 puncte la 100 pagini / număr autori	X
		edituri academice naționale: 50 puncte la 100 pagini / număr autori	X
		alte edituri naționale: 20 puncte la 100 pagini / număr autori	X
	<b>6. Cărți științifice traduse și publicate în edituri din străinătate</b>	100 puncte la 100 pagini / număr autori	X
	<b>7. Coordonarea și editarea de volume, traduceri și antologii</b>	edituri academice internaționale: 60 puncte / număr autori	X
		alte edituri internaționale: 40 puncte / număr autori	X
		edituri academice naționale: 30 puncte / număr autori	

CRITERII	DESCRIPTORI	PUNCTAJE ACORDATE	PUNCTE OBTINUTE
	[L58] O. Cârjă, I.D. Ghiba. Proceedings of the International Student Conference on Pure and Applied Mathematics, Editura Universității "Alexandru Ioan Cuza", 2011, ISBN 978-973-703-602-5.	[L58] 15 puncte	15 puncte
		alte edituri naționale: 15 puncte / număr autori	X
	<b>8. Articole publicate în dicționare și enciclopedii</b>  [L53] I.D. Ghiba. Linear Thermoelastic Model. In R. Hetnarski (ed.), Encyclopedia of Thermal Stresses, pp. 2785-2794, Springer, 2014. [L54] I.D. Ghiba. Boundary-Initial Value Problems of Thermoelastodynamics. In R. Hetnarski (ed.), Encyclopedia of Thermal Stresses, pp. 468-474, Springer, 2014. [L55] I.D. Ghiba. Partition of Energy. In R. Hetnarski (ed.), Encyclopedia of Thermal Stresses, pp. 3609-3616, Springer, 2014. [L56] I.D. Ghiba. Saint-Venant's Principle. In R. Hetnarski (ed.), Encyclopedia of Thermal Stresses, pp. 4255-4264, Springer, 2014. [L57] I.D. Ghiba. Thermoelastic Waves. In R. Hetnarski (ed.), Encyclopedia of Thermal Stresses, pp. 5785-5794, Springer, 2014.	edituri academice internaționale: 30 puncte / număr autori	150 puncte
		[L53] 30 puncte	
		[L54] 30 puncte	
		[L55] 30 puncte	
		[L56] 30 puncte	
		[L57] 30 puncte	
		alte edituri internaționale: 20 puncte / număr autori	X
		edituri academice naționale: 15 puncte / număr autori	X
		alte edituri naționale: 5 puncte	X

CRITERII	DESCRIPTORI	PUNCTAJE ACORDATE	PUNCTE OBTINUTE
		/ număr autori	
	9. Contracte de cercetare științifică în instituții academice (universități, institute ale Academiei Române, institute naționale de cercetare, institute de cercetare din străinătate, alte categorii de institute academice)	contracte internaționale – director: 100 puncte pentru fiecare 100.000 Euro	X
		contracte internaționale – membru: 100 puncte pentru fiecare 100.000 Euro / numărul membrilor echipei de cercetare	X
	<ul style="list-style-type: none"> <li>○ GI-UAIC-2017-10 (Valoare contract: 40 000 RON; 1 membru)</li> <li>○ PN-III-P1-1.1-MC- 2017-1271 (Valoare contract: 19 034 RON; 1 membru)</li> <li>○ PN-II-RU-TE-2014-4-0320/2015 (Valoare contract: 529 996 RON; 5 membri)</li> <li>○ BD-300/2008 (Valoare contract 46 500 RON, 31 luni x1 500 RON; 1 membru)</li> </ul>	contracte naționale – director: 50 puncte pentru fiecare 500.000 <ul style="list-style-type: none"> <li>○ 4 puncte</li> <li>○ 1.9 puncte</li> <li>○ 52.99 puncte</li> <li>○ 4.65 puncte</li> </ul>	63.54 puncte
	<ul style="list-style-type: none"> <li>○ CERES-2-CEx06-11-12/2006-Director Prof. Dr. Sanda Cleja-Țigoiu. (Valoare subcontract UAIC: 374 681 RON; 4 membri UAIC)</li> <li>○ CERES-2-CEx06-11-56/2006 -Director Prof. Dr. Stan Chiriță. (Valoare contract: 1 462 621.35 RON; 18 membri)</li> </ul>	contracte naționale – membru: 50 puncte pentru fiecare 500.000 lei / numărul membrilor echipei de cercetare <ul style="list-style-type: none"> <li>○ 9.36 puncte</li> <li>○ 8.12 puncte</li> </ul>	95.07 puncte

CRITERII	DESCRIPTORI	PUNCTAJE ACORDATE	PUNCTE OBTINUTE
	<ul style="list-style-type: none"> <li>○ CEEX-72, no. 1510/2006 - Director Conf. Dr. Cătălin Galeș. (Valoare contract: 144 000 RON; 4 membri)</li> <li>○ ID-401, no. 15/2007 - Director Prof. Dr. Stan Chiriță. (Valoare contract: 745 187.38 RON; 5 membri)</li> <li>○ ID-89, no. 457/2008 - Director Prof. Dr. Mircea Bîrsan. (Valoare contract: 395 229.93 RON; 6 membri)</li> <li>○ TE-184, no. 86/2010 - Director Conf. Dr. Cătălin Galeș. (Valoare contract: 660 624.78 RON; 4 membri)</li> <li>○ PN-II-ID-PCE-2011-3-0521 - Director Prof. Dr. Liviu Marin (Valoare contract: 1 080 000 RON; 4 membri)</li> <li>○ PN-II-RU-TE-2014-4-1109/2015, - Director Conf. Dr. Ionel Rovența (Valoare contract: 540 500 RON; 6 membri)</li> </ul>	<ul style="list-style-type: none"> <li>○ 3.6 puncte</li> <li>○ 14.9 puncte</li> <li>○ 6.58 puncte</li> <li>○ 16.51 puncte</li> <li>○ 27 puncte</li> <li>○ 9 puncte</li> </ul>	
	<b>10. Contracte de cercetare în mediul de afaceri și sectorul public</b>	organizații internaționale: 100 puncte pentru fiecare 100.000 Euro	X
		firmе multinaționale: 100 puncte pentru fiecare 100.000 Euro	X
		firmе naționale: 50 puncte pentru fiecare 500.000 Euro	X
		organizații administrative naționale: 40 puncte pentru fiecare 500.000 Euro	X
		alte organizații publice de nivel național: 30 puncte	X

CRITERII	DESCRIPTORI	PUNCTAJE ACORDATE	PUNCTE OBTINUTE
		pentru fiecare 500.000 Euro	
	11. Brevete	internaționale: 100 puncte / număr de autori	X
		naționale: 30 puncte / număr autori	X
	12. Citări și recenzii ale lucrărilor științifice	reviste de specialitate din străinătate: (10 + 20 x factor de impact) / număr autori, pentru fiecare citare	
	<p>R.J. Martin, I.D. Ghiba, P. Neff. Rank-one convexity implies polyconvexity for isotropic, objective and isochoric elastic energies in the two-dimensional case, Proceedings of the Royal Society of Edinburgh, Section: A Mathematics 147 (3), pp. 571-597, 2017. (SRI 2016: 1.616, , IF 2016: 1.158)</p> <p><i>Citată în:</i></p> <p>1) Weak Lower Semicontinuity of Integral Functionals and Applications By: Benesova, Barbora; Kruzik, Martin SIAM REVIEW Volume: 59 Issue: 4 Pages: 703-766 Published: DEC 2017 (IF 2016: 4.897)</p> <p>G. Barbagallo, M.V. D'Agostino, R. Abreu, I.D. Ghiba, A. Madeo, P. Neff. Transparent anisotropy for the relaxed micromorphic model: macroscopic consistency conditions and long wave length asymptotics, International Journal of Solids and Structures, 120, pp. 7-30, 2017. (SRI 2016: 1.915, IF 2016: 2.76)</p> <p><i>Citată în:</i></p> <p>2) On the role of micro-inertia in enriched continuum mechanics By: Madeo, Angela; Neff, Patrizio; Aifantis, Elias C.; et al. PROCEEDINGS OF THE</p>	<p>35.98</p> <p>8.82</p>	3239.239

CRITERII	DESCRIPTORI	PUNCTAJE ACORDATE	PUNCTE OBTINUTE
	<p>ROYAL SOCIETY A-MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES Volume: 473 Issue: 2198 Article Number: 20160722 Published: FEB 1 2017 (IF 2016: 2.146)</p> <p>3) Complete band gaps including non-local effects occur only in the relaxed micromorphic model By: Madeo, Angela; Neff, Patrizio; d'Agostino, Marco Valerio; et al. COMPTES RENDUS MECANIQUE Volume: 344 Issue: 11-12 Pages: 784-796 Published: NOV-DEC 2016 (IF 2016: 1.029)</p> <p>4) First evidence of non-locality in real band-gap metamaterials: determining parameters in the relaxed micromorphic model By: Madeo, Angela; Barbagallo, Gabriele; d'Agostino, Marco Valerio; et al. PROCEEDINGS OF THE ROYAL SOCIETY A-MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES Volume: 472 Issue: 2190 Article Number: 20160169 Published: JUN 1 2016 (IF 2016: 2.146)</p> <p>I.D. Ghiba, P. Neff, A. Madeo, I. Munch. A variant of the linear isotropic indeterminate couple stress model with symmetric local force-stress, symmetric nonlocal force-stress, symmetric couple-stresses and complete traction boundary conditions, Mathematics and Mechanics of Solids 22, pp. 1221-1266, 2017. (SRI 2016: 1.328, IF 2016: 2.953)</p> <p><i>Citată în:</i></p> <p>5) A non-classical model for an orthotropic Kirchhoff plate embedded in a viscoelastic medium By: Zhang, G. Y.; Gao, X. -L.; Guo, Z. Y. ACTA MECHANICA Volume: 228 Issue: 11 Pages: 3811-3825 Published: NOV 2017 (IF 2016: 1.851)</p> <p>P. Neff, A. Madeo, G. Barbagallo, M.V. D'Agostino, R. Abreu, I.D. Ghiba. Real wave</p>	<p>5.096</p> <p>8.82</p> <p>11.755</p>	

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	<p>propagation in the isotropic-relaxed micromorphic model, Proceedings of the Royal Society A 473, doi: 10.1098/rspa.2016.0790, 2017. (SRI 2016: 2.223 , IF 2016: 2.146)</p> <p><i>Citată în:</i></p> <p>6) On the role of micro-inertia in enriched continuum mechanics By: Madeo, Angela; Neff, Patrizio; Aifantis, Elias C.; et al. PROCEEDINGS OF THE ROYAL SOCIETY A-MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES Volume: 473 Issue: 2198 Article Number: 20160722 Published: FEB 1 2017 (IF 2016: 2.146)</p> <p>A. Madeo, P. Neff, I.D. Ghiba, G. Rosi. Reflection and transmission of elastic waves at interfaces embedded in non-local band-gap metamaterials: a comprehensive study via the relaxed micromorphic model, Journal of the Mechanics and Physics of Solids, 95, pp. 441-479, 2016. (SRI 2016: 4.399, IF 2016: 4.255)</p> <p><i>Citată în:</i></p> <p>7) On the role of micro-inertia in enriched continuum mechanics By: Madeo, Angela; Neff, Patrizio; Aifantis, Elias C.; et al. PROCEEDINGS OF THE ROYAL SOCIETY A-MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES Volume: 473 Issue: 2198 Article Number: 20160722 Published: FEB 1 2017 (IF 2016: 2.146)</p> <p>8) Integrability conditions between the first and second Cosserat deformation tensor in geometrically nonlinear micropolar models and existence of minimizers By: Lankeit, Johannes; Neff, Patrizio; Osterbrink, Frank ZEITSCHRIFT FUR ANGEWANDTE MATHEMATIK UND PHYSIK Volume: 68 Issue: 1 Article Number: UNSP 11 Published: FEB 2017 (IF 2016: 1.687)</p>	<p>8.82</p> <p>13.23</p> <p>10.935</p>	

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	<p>9) Internal Length Gradient (ILG) Material Mechanics Across Scales and Disciplines By: Aifantis, E. C. Edited by: Bordas, SPA; Balint, DS ADVANCES IN APPLIED MECHANICS, VOL 49 Book Series: Advances in Applied Mechanics Volume: 49 Pages: 1-110 Published: 2016 (IF 2016: 3.00)</p> <p>A. Madeo, I.D. Ghiba, P. Neff, I. Munch. A new view on boundary conditions in the Grioli-Koiter-Mindlin-Toupin indeterminate couple stress model, European Journal of Mechanics A/Solids, 59, pp. 294-322, 2016. (SRI 2016: 1.704, IF 2016: 2.846)</p> <p><i>Citată în:</i></p> <p>10) A penalty-based finite element framework for couple stress elasticity By: Chakravarty, Sourish; Hadjesfandiari, Ali R.; Dargush, Gary F. FINITE ELEMENTS IN ANALYSIS AND DESIGN Volume: 130 Pages: 65-79 Published: AUG 2017 (IF 2016: 2.161)</p> <p>11) Continuum and discrete models for unbalanced woven fabrics By: Madeo, Angela; Barbagallo, Gabriele; D'Agostino, Marco Valerio; et al. INTERNATIONAL JOURNAL OF SOLIDS AND STRUCTURES Volume: 94-95 Pages: 263-284 Published: SEP 2016 (IF 2016: 2.76)</p> <p>P. Neff, I. Munch, I.D. Ghiba, A. Madeo. On some fundamental misunderstandings in the indeterminate couple stress model. A comment on recent papers of A.R. Hadjesfandiari and G.F. Dargush, International Journal of Solids and Structures 81, pp. 233-243, 2016. (SRI 2016: 1.915, IF 2016: 2.76)</p> <p><i>Citată în:</i></p> <p>12) Sliding frictional contact analysis of an elastic solid with couple stresses By: Song, Hong-Xia; Ke, Liao-Liang; Wang, Yue-Sheng INTERNATIONAL</p>	<p>17.5</p> <p>13.305</p> <p>16.3</p> <p>16.92</p>	



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	<p>JOURNAL OF MECHANICAL SCIENCES Volume: 133 Pages: 804-816 Published: NOV 2017 (IF 2016: 2.884)</p> <p>13) A penalty-based finite element framework for couple stress elasticity By: Chakravarty, Sourish; Hadjesfandiari, Ali R.; Dargush, Gary F. FINITE ELEMENTS IN ANALYSIS AND DESIGN Volume: 130 Pages: 65-79 Published: AUG 2017 (IF 2016: 2.161)</p> <p>14) Mixed Lagrangian formulation for size-dependent couple stress elastodynamic response By: Deng, Guoqiang; Dargush, Gary F. ACTA MECHANICA Volume: 227 Issue: 12 Pages: 3451-3473 Published: DEC 2016 (IF 2016: 1.851)</p> <p>P. Neff, I.D. Ghiba. Loss of ellipticity in additive logarithmic finite strain plasticity, International Journal of Non-Linear Mechanics, 81, pp. 122-128, 2016. (SRI 2016: 1.364, IF 2016: 2.074)</p> <p><i>Citată în:</i></p> <p>15) Computational anisotropic hardening multiplicative elastoplasticity based on the corrector elastic logarithmic strain rate By: Sanz, Miguel A.; Montans, Francisco J.; Latorre, Marcos COMPUTER METHODS IN APPLIED MECHANICS AND ENGINEERING Volume: 320 Pages: 82-121 Published: JUN 15 2017 (IF 2016: 3.949)</p> <p>16) On the numerical implementation of the Closest Point Projection algorithm in anisotropic elasto-plasticity with nonlinear mixed hardening By: Minano, Mar; Caminero, Miguel A.; Montans, Francisco J. FINITE ELEMENTS IN ANALYSIS AND DESIGN Volume: 121 Pages: 1-17 Published: NOV 15</p>	<p>13.305</p> <p>11.755</p> <p>44.49</p> <p>26.61</p>	

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	<p>2016 (IF 2016: 2.161)</p> <p>17) The Exponentiated Hencky Strain Energy in Modeling Tire Derived Material for Moderately Large Deformations By: Montella, Giuseppe; Govindjee, Sanjay; Neff, Patrizio JOURNAL OF ENGINEERING MATERIALS AND TECHNOLOGY-TRANSACTIONS OF THE ASME Volume: 138 Issue: 3 Article Number: 031008 Published: JUL 2016 (IF 2016: 1.141)</p> <p>P. Neff, I.D. Ghiba. The exponentiated Hencky-logarithmic strain energy. Part III: Coupling with idealized multiplicative isotropic finite strain plasticity, Continuum Mechanics and Thermodynamics, 28, pp. 477-487, 2016. (SRI 2016: 1.808, IF 2016: 2.529)</p> <p><i>Citată în:</i></p> <p>18) Geometry of Logarithmic Strain Measures in Solid Mechanics By: Neff, Patrizio; Eidel, Bernhard; Martin, Robert J. ARCHIVE FOR RATIONAL MECHANICS AND ANALYSIS Volume: 222 Issue: 2 Pages: 507-572 Published: NOV 2016 (IF 2016: 2.392)</p> <p>19) The Exponentiated Hencky Strain Energy in Modeling Tire Derived Material for Moderately Large Deformations By: Montella, Giuseppe; Govindjee, Sanjay; Neff, Patrizio JOURNAL OF ENGINEERING MATERIALS AND TECHNOLOGY-TRANSACTIONS OF THE ASME Volume: 138 Issue: 3 Article Number: 031008 Published: JUL 2016 (IF 2016: 1.141)</p> <p>I.D. Ghiba, P. Neff, R.J. Martin. An ellipticity domain for the distortional Hencky-logarithmic strain energy, Proceedings of the Royal Society A 471, doi: 10.1098/rspa.2015.0510, 2016. (SRI 2016: 2.223, IF 2016: 2.146)</p>	<p>16.41</p> <p>28.92</p> <p>16.41</p>	

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	<p><i>Citată în:</i></p> <p>20) The Exponentiated Hencky Strain Energy in Modeling Tire Derived Material for Moderately Large Deformations By: Montella, Giuseppe; Govindjee, Sanjay; Neff, Patrizio JOURNAL OF ENGINEERING MATERIALS AND TECHNOLOGY-TRANSACTIONS OF THE ASME Volume: 138 Issue: 3 Article Number: 031008 Published: JUL 2016 (IF 2016: 1.141)</p> <p>I.D. Ghiba, P. Neff, M. Silhavy. The exponentiated Hencky-logarithmic strain energy. Improvement of the proof of planar polyconvexity, International Journal of Non-Linear Mechanics, 71, pp. 48-51, 2015. (SRI 2016: 1.364, IF 2016: 2.074)</p> <p><i>Citată în:</i></p> <p>21) Hyperelastic bodies under homogeneous Cauchy stress induced by non homogeneous finite deformations By: Mihai, L. Angela; Neff, Patrizio INTERNATIONAL JOURNAL OF NON-LINEAR MECHANICS Volume: 89 Pages: 93-100 Published: MAR 2017 (IF 2016: 2.074)</p> <p>22) Geometry of Logarithmic Strain Measures in Solid Mechanics By: Neff, Patrizio; Eidel, Bernhard; Martin, Robert J. ARCHIVE FOR RATIONAL MECHANICS AND ANALYSIS Volume: 222 Issue: 2 Pages: 507-572 Published: NOV 2016 (IF 2016: 2.392)</p> <p>23) The Exponentiated Hencky Strain Energy in Modeling Tire Derived Material for Moderately Large Deformations By: Montella, Giuseppe; Govindjee, Sanjay; Neff, Patrizio JOURNAL OF ENGINEERING MATERIALS AND TECHNOLOGY-TRANSACTIONS OF THE ASME Volume: 138 Issue: 3 Article Number: 031008 Published: JUL 2016 (IF 2016: 1.141)</p>	<p>7.61</p> <p>17.16</p> <p>19.28</p> <p>10.94</p>	

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	<p>24) Some remarks on the monotonicity of primary matrix functions on the set of symmetric matrices By: Martin, Robert J.; Neff, Patrizio ARCHIVE OF APPLIED MECHANICS Volume: 85 Issue: 12 Pages: 1761-1778 Published: DEC 2015 (IF 2016: 1.49)</p> <p>P. Neff, J. Lankeit, I.D. Ghiba, R. Martin, D. Steigmann. The exponentiated Hencky-logarithmic strain energy. Part II: Coercivity, planar polyconvexity and existence of minimizers, ZAMP, 66, pp. 1671-1693, 2015. (SRI 2016: 1.213, IF 2016: 1.687)</p> <p><i>Citată în:</i></p> <p>25) Elastic wave propagation in simple-sheared hyperelastic materials with different constitutive models By: Chen, Linli; Chang, Zheng; Qin, Taiyan INTERNATIONAL JOURNAL OF SOLIDS AND STRUCTURES Volume: 126 Pages: 1-7 Published: NOV 2017 (IF 2016: 2.76)</p> <p>26) Hyperelastic bodies under homogeneous Cauchy stress induced by non homogeneous finite deformations By: Mihai, L. Angela; Neff, Patrizio INTERNATIONAL JOURNAL OF NON-LINEAR MECHANICS Volume: 89 Pages: 93-100 Published: MAR 2017 (IF 2016: 2.074)</p> <p>27) Geometry of Logarithmic Strain Measures in Solid Mechanics By: Neff, Patrizio; Eidel, Bernhard; Martin, Robert J. ARCHIVE FOR RATIONAL MECHANICS AND ANALYSIS Volume: 222 Issue: 2 Pages: 507-572 Published: NOV 2016 (IF 2016: 2.392)</p> <p>28) The Exponentiated Hencky Strain Energy in Modeling Tire Derived Material for Moderately Large Deformations By: Montella, Giuseppe; Govindjee, Sanjay; Neff, Patrizio JOURNAL OF ENGINEERING MATERIALS AND</p>	<p>13.266</p> <p>13.04</p> <p>10.296</p> <p>11.568</p> <p>6.564</p>	

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	<p>solid By: Yavari, Arash MECHANICS RESEARCH COMMUNICATIONS Volume: 78 Special Issue: SI Pages: 55-59 Part: B Published: DEC 2016 (IF 2016: 1.667)</p> <p>34) Geometry of Logarithmic Strain Measures in Solid Mechanics By: Neff, Patrizio; Eidel, Bernhard; Martin, Robert J. ARCHIVE FOR RATIONAL MECHANICS AND ANALYSIS Volume: 222 Issue: 2 Pages: 507-572 Published: NOV 2016 (IF 2016: 2.392)</p> <p>35) Analytical network-averaging of the tube model: Rubber elasticity By: Vu Ngoc Khiem; Itskov, Mikhail JOURNAL OF THE MECHANICS AND PHYSICS OF SOLIDS Volume: 95 Pages: 254-269 Published: OCT 2016 (IF 2016: 4.255)</p> <p>36) On constitutive models of finite elasticity with possible zero apparent Poisson's ratio By: Nedjar, B. INTERNATIONAL JOURNAL OF SOLIDS AND STRUCTURES Volume: 91 Pages: 72-77 Published: AUG 2016 (IF 2016: 2.76)</p> <p>37) The Exponentiated Hencky Strain Energy in Modeling Tire Derived Material for Moderately Large Deformations By: Montella, Giuseppe; Govindjee, Sanjay; Neff, Patrizio JOURNAL OF ENGINEERING MATERIALS AND TECHNOLOGY-TRANSACTIONS OF THE ASME Volume: 138 Issue: 3 Article Number: 031008 Published: JUL 2016 (IF 2016: 1.141)</p> <p>38) Elastic, thermal expansion, plastic and rheological processes - theory and experiment By: Asszonyi, Csaba; Csatar, Attila; Fuegoep, Tamas PERIODICA POLYTECHNICA-CIVIL ENGINEERING Volume: 60 Issue: 4 Pages: 591-601 Published: 2016 (IF 2016: 0.313)</p>	<p>19.28</p> <p>31.7</p> <p>21.733</p> <p>10.94</p> <p>5.42</p>	

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	<p>39) Some remarks on the monotonicity of primary matrix functions on the set of symmetric matrices By: Martin, Robert J.; Neff, Patrizio ARCHIVE OF APPLIED MECHANICS Volume: 85 Issue: 12 Pages: 1761-1778 Published: DEC 2015 (IF 2016: 1.49)</p> <p>A. Madeo, P. Neff, I.D. Ghiba, L. Placidi, G. Rosi. Band gaps in the relaxed linear micromorphic continuum, ZAMM, 95, pp. 880-887, 2015. (SRI 2016: 1.207, IF 2016: 1.332)</p> <p><i>Citată în:</i></p> <p>40) Semi-inverse method a la Saint-Venant for two-dimensional linear isotropic homogeneous second-gradient elasticity By: Placidi, Luca; El Dhaba, Amr Ramadan MATHEMATICS AND MECHANICS OF SOLIDS Volume: 22 Issue: 5 Pages: 919-937 Published: MAY 2017 (IF 2016: 2.953)</p> <p>41) Identification of two-dimensional pantographic structure via a linear D4 orthotropic second gradient elastic model By: Placidi, Luca; Andreaus, Ugo; Giorgio, Ivan JOURNAL OF ENGINEERING MATHEMATICS Volume: 103 Issue: 1 Pages: 1-21 Published: APR 2017 (IF 2016: 1.076)</p> <p>42) Dynamics of 1D nonlinear pantographic continua By: Giorgio, Ivan; Della Corte, Alessandro; dell'Isola, Francesco NONLINEAR DYNAMICS Volume: 88 Issue: 1 Pages: 21-31 Published: APR 2017 (IF 2016: 3.464)</p> <p>43) On the role of micro-inertia in enriched continuum mechanics By: Madeo, Angela; Neff, Patrizio; Aifantis, Elias C.; et al. PROCEEDINGS OF THE ROYAL SOCIETY A-MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES Volume: 473 Issue: 2198 Article Number: 20160722</p>	<p>13.266</p> <p>13.812</p> <p>6.304</p> <p>15.856</p> <p>10.584</p>	

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	<p>Published: FEB 1 2017 (IF 2016: 2.146)</p> <p>44) Numerical simulations of classical problems in two-dimensional (non) linear second gradient elasticity By: Andreaus, Ugo; dell'Isola, Francesco; Giorgio, Ivan; et al. INTERNATIONAL JOURNAL OF ENGINEERING SCIENCE Volume: 108 Pages: 34-50 Published: NOV 2016 (IF 2016: 4.261)</p> <p>45) First evidence of non-locality in real band-gap metamaterials: determining parameters in the relaxed micromorphic model By: Madeo, Angela; Barbagallo, Gabriele; d'Agostino, Marco Valerio; et al. PROCEEDINGS OF THE ROYAL SOCIETY A-MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES Volume: 472 Issue: 2190 Article Number: 20160169 Published: JUN 1 2016 (IF 2016: 2.146)</p> <p>46) Anisotropic and dispersive wave propagation within strain-gradient framework By: Rosi, G.; Auffray, N. WAVE MOTION Volume: 63 Pages: 120-134 Published: JUN 2016 (IF 2016: 1.575)</p> <p>47) On the whole spectrum of Timoshenko beams. Part I: a theoretical revisitation By: Cazzani, Antonio; Stochino, Flavio; Turco, Emilio ZEITSCHRIFT FUR ANGEWANDTE MATHEMATIK UND PHYSIK Volume: 67 Issue: 2 Article Number: 24 Published: APR 2016 (IF 2016: 1.687)</p> <p>48) Pantographic 2D sheets: Discussion of some numerical investigations and potential applications By: dell'Isola, Francesco; Della Corte, Alessandro; Giorgio, Ivan; et al. INTERNATIONAL JOURNAL OF NON-LINEAR MECHANICS Volume: 80 Special Issue: SI Pages: 200-208 Published:</p>	<p>19.044</p> <p>10.584</p> <p>8.3</p> <p>8.748</p> <p>10.296</p>	



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	<p>APR 2016 (IF 2016: 2.074)</p> <p>49) Large deformations of planar extensible beams and pantographic lattices: heuristic homogenization, experimental and numerical examples of equilibrium By: dell'Isola, F.; Giorgio, I.; Pawlikowski, M.; et al. PROCEEDINGS OF THE ROYAL SOCIETY A-MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES Volume: 472 Issue: 2185 Article Number: 20150790 Published: JAN 1 2016 (IF 2016: 2.146)</p> <p>50) The influence of hydrostatic stress on the frequency equation of flexural waves in a magnetoelastic transversely isotropic circular cylinder By: Abd-alla, Abo-el-nour N.; Raizah, Aishah; Placidi, Luca ZAMM-ZEITSCHRIFT FUR ANGEWANDTE MATHEMATIK UND MECHANIK Volume: 96 Issue: 1 Pages: 53-66 Published: JAN 2016 (IF 2016: 1.332)</p> <p>51) Soliton-like solutions based on geometrically nonlinear Cosserat micropolar elasticity By: Boehmer, Christian G.; Neff, Patrizio; Seymenoglu, Belgin WAVE MOTION Volume: 60 Pages: 158-165 Published: JAN 2016 (IF 2016: 1.575)</p> <p>52) Gedanken experiments for the determination of two-dimensional linear second gradient elasticity coefficients By: Placidi, Luca; Andreaus, Ugo; Della Corte, Alessandro; et al. ZEITSCHRIFT FUR ANGEWANDTE MATHEMATIK UND PHYSIK Volume: 66 Issue: 6 Pages: 3699-3725 Published: DEC 2015 (IF 2016: 1.687)</p> <p>53) Elastic pantographic 2D lattices: a numerical analysis on the static response and wave propagation By: dell'Isola, Francesco; Giorgio, Ivan; Andreaus,</p>	<p>10.584</p> <p>7.328</p> <p>8.3</p> <p>8.748</p> <p>4.948</p>	

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	<p>Ugo Conference: IUTAM SYMPOSIUM ON COMPLEXITY OF NONLINEAR WAVES Location: Tallinn, ESTONIA Date: SEP 08-12, 2014  Sponsor(s): Tallinn Univ Technol, Inst Cybernet, Ctr Nonlinear Stud PROCEEDINGS OF THE ESTONIAN ACADEMY OF SCIENCES  Volume: 64 Issue: 3 Special Issue: SI Pages: 219-225 Published: 2015 (IF 2016: 0.737)</p> <p>I.D. Ghiba, P. Neff, A. Madeo, L. Placidi, G. Rosi. The relaxed linear micromorphic continuum: existence, uniqueness and continuous dependence in dynamics, Mathematics and Mechanics of Solids, 68, pp. 53-84, 2015. (SRI 2016: 1.328, IF 2016: 2.953)</p> <p><i>Citată în:</i></p> <p>54) Nonlinear pull-in instability of microplates with piezoelectric layers using modified couple stress theory By: Kazemi, Mash; Vatankhah, Ramin; Farid, Mehrdad INTERNATIONAL JOURNAL OF MECHANICAL SCIENCES  Volume: 130 Pages: 90-98 Published: SEP 2017 (IF 2016: 2.884)</p> <p>55) Micromorphic prism element By: Ansari, R.; Bazdid-Vahdati, M.; Shakouri, A. H.; et al. MATHEMATICS AND MECHANICS OF SOLIDS Volume: 22  Issue: 6 Pages: 1438-1461 Published: JUN 2017 (IF 2016: 2.953)</p> <p>56) On the role of micro-inertia in enriched continuum mechanics By: Madeo, Angela; Neff, Patrizio; Aifantis, Elias C.; et al. PROCEEDINGS OF THE ROYAL SOCIETY A-MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES Volume: 473 Issue: 2198 Article Number: 20160722  Published: FEB 1 2017 (IF 2016: 2.146)</p> <p>57) Euromech 563 Cisterna di Latina 17-21 March 2014 Generalized continua and</p>	<p>13.536</p> <p>13.812</p> <p>10.584</p> <p>13.812</p>	

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	<p>their applications to the design of composites and metamaterials: A review of presentations and discussions By: Placidi, Luca; Giorgio, Ivan; Della Corte, Alessandro; et al. MATHEMATICS AND MECHANICS OF SOLIDS Volume: 22 Issue: 2 Pages: 144-157 Published: FEB 2017 (IF 2016: 2.953)</p> <p>58) Micromorphic continua: non-redundant formulations By: Romano, Giovanni; Barretta, Raffaele; Diaco, Marina CONTINUUM MECHANICS AND THERMODYNAMICS Volume: 28 Issue: 6 Pages: 1659-1670 Published: NOV 2016 (IF 2016: 2.529)</p> <p>59) Complete band gaps including non-local effects occur only in the relaxed micromorphic model By: Madeo, Angela; Neff, Patrizio; d'Agostino, Marco Valerio; et al. COMPTES RENDUS MECANIQUE Volume: 344 Issue: 11-12 Pages: 784-796 Published: NOV-DEC 2016 (IF 2016: 1.029)</p> <p>60) Continuum and discrete models for unbalanced woven fabrics By: Madeo, Angela; Barbagallo, Gabriele; D'Agostino, Marco Valerio; et al. INTERNATIONAL JOURNAL OF SOLIDS AND STRUCTURES Volume: 94-95 Pages: 263-284 Published: SEP 2016 (IF 2016: 2.76)</p> <p>61) First evidence of non-locality in real band-gap metamaterials: determining parameters in the relaxed micromorphic model By: Madeo, Angela; Barbagallo, Gabriele; d'Agostino, Marco Valerio; et al. PROCEEDINGS OF THE ROYAL SOCIETY A-MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES Volume: 472 Issue: 2190 Article Number: 20160169 Published: JUN 1 2016 (IF 2016: 2.146)</p> <p>62) Anisotropic and dispersive wave propagation within strain-gradient</p>	<p>12.116</p> <p>6.116</p> <p>13.04</p> <p>10.584</p>	

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	framework By: Rosi, G.; Auffray, N. WAVE MOTION Volume: 63 Pages: 120-134 Published: JUN 2016 (IF 2016: 1.575)	8.3	
	63) Granular micromechanics based micromorphic model predicts frequency band gaps By: Misra, Anil; Poorsolhjoui, Payam CONTINUUM MECHANICS AND THERMODYNAMICS Volume: 28 Issue: 1-2 Special Issue: SI Pages: 215-234 Published: MAR 2016 (IF 2016: 2.529)	12.116	
	64) The postulations a la D'Alembert and a la Cauchy for higher gradient continuum theories are equivalent: a review of existing results By: dell'Isola, F.; Seppecher, P.; Della Corte, A. PROCEEDINGS OF THE ROYAL SOCIETY A-MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES Volume: 471 Issue: 2183 Article Number: 20150415 Published: NOV 8 2015 (IF 2016: 2.146)	10.584	
	65) Fractional dissipation generated by hidden wave-fields By: Carcaterra, A.; Roveri, N.; Pepe, G. MATHEMATICS AND MECHANICS OF SOLIDS Volume: 20 Issue: 10 Pages: 1251-1262 Published: NOV 2015 (IF 2016: 2.953)	13.812	
	66) Existence Theorem for Geometrically Nonlinear Cosserat Micropolar Model Under Uniform Convexity Requirements By: Neff, Patrizio; Birsan, Mircea; Osterbrink, Frank JOURNAL OF ELASTICITY Volume: 121 Issue: 1 Pages: 119-141 Published: OCT 2015 (IF 2016: 1.909)	9.636	
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	<p>Giorgio, Ivan; et al. MATHEMATICS AND MECHANICS OF SOLIDS Volume: 22 Issue: 4 Pages: 873-884 Published: APR 2017 (IF 2016: 2.953)</p> <p>73) On the role of micro-inertia in enriched continuum mechanics By: Madeo, Angela; Neff, Patrizio; Aifantis, Elias C.; et al. PROCEEDINGS OF THE ROYAL SOCIETY A-MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES Volume: 473 Issue: 2198 Article Number: 20160722 Published: FEB 1 2017 (IF 2016: 2.146)</p> <p>74) Reflection and transmission of elastic waves at five types of possible interfaces between two dipolar gradient elastic half-spaces By: Li, Yueqiu; Wei, Peijun ACTA MECHANICA SINICA Volume: 33 Issue: 1 Pages: 173-188 Published: FEB 2017 (IF 2016: 1.324)</p> <p>75) Variational Feedback Control for a nonlinear beam under an earthquake excitation By: Pepe, G.; Carcaterra, A.; Giorgio, I.; et al. MATHEMATICS AND MECHANICS OF SOLIDS Volume: 21 Issue: 10 Pages: 1234-1246 Published: NOV 2016 (IF 2016: 2.953)</p> <p>76) Complete band gaps including non-local effects occur only in the relaxed micromorphic model By: Madeo, Angela; Neff, Patrizio; d'Agostino, Marco Valerio; et al. COMPTES RENDUS MECANIQUE Volume: 344 Issue: 11-12 Pages: 784-796 Published: NOV-DEC 2016 (IF 2016: 1.029)</p> <p>77) Numerical simulations of classical problems in two-dimensional (non) linear second gradient elasticity By: Andreaus, Ugo; dell'Isola, Francesco; Giorgio, Ivan; et al. INTERNATIONAL JOURNAL OF ENGINEERING SCIENCE Volume: 108 Pages: 34-50 Published: NOV 2016 (IF 2016: 4.261)</p>	<p>10.584</p> <p>7.296</p> <p>13.812</p> <p>6.116</p> <p>19.044</p>	

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	78) Buckling modes in pantographic lattices By: Giorgio, Ivan; Della Corte, Alessandro; dell'Isola, Francesco; et al. COMPTES RENDUS MECANIQUE Volume: 344 Issue: 7 Pages: 487-501 Published: JUL 2016 (IF 2016: 1.029)	6.116	
	79) Coupled S-P wave propagation in nonlinear regularized micromorphic media By: Rapti, I.; Modaressi-Farahmand-Razavi, A.; Foucault, A.; et al. COMPUTERS AND GEOTECHNICS Volume: 77 Pages: 106-114 Published: JUL 2016 2016 (IF 2016: 2.358)	11.432	
	80) First evidence of non-locality in real band-gap metamaterials: determining parameters in the relaxed micromorphic model By: Madeo, Angela; Barbagallo, Gabriele; d'Agostino, Marco Valerio; et al. PROCEEDINGS OF THE ROYAL SOCIETY A-MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES Volume: 472 Issue: 2190 Article Number: 20160169 Published: JUN 1 2016 2016 (IF 2016: 2.146)	10.584	
	81) Anisotropic and dispersive wave propagation within strain-gradient framework By: Rosi, G.; Auffray, N. WAVE MOTION Volume: 63 Pages: 120-134 Published: JUN 2016 (IF 2016: 1.575)	8.3	
	82) Nonlinear regularization operators as derived from the micromorphic approach to gradient elasticity, viscoplasticity and damage By: Forest, Samuel PROCEEDINGS OF THE ROYAL SOCIETY A-MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES Volume: 472 Issue: 2188 Article Number: 20150755 Published: APR 1 2016 (IF 2016: 2.146)	10.584	
	83) On the whole spectrum of Timoshenko beams. Part I: a theoretical		

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	<p>revisitation By: Cazzani, Antonio; Stochino, Flavio; Turco, Emilio ZEITSCHRIFT FUR ANGEWANDTE MATHEMATIK UND PHYSIK Volume: 67 Issue: 2 Article Number: 24 Published: APR 2016 (IF 2016: 1.687)</p> <p>84) IDENTIFICATION OF HIGHER-ORDER ELASTIC CONSTANTS FOR GRAIN ASSEMBLIES BASED UPON GRANULAR MICROMECHANICS By: Misra, Anil; Poorsolhjoui, Payam MATHEMATICS AND MECHANICS OF COMPLEX SYSTEMS Volume: 3 Issue: 3 Pages: 285-308 Published: 2015</p> <p>P. Neff, I.D. Ghiba, M. Lazar, A. Madeo. The relaxed linear micromorphic continuum: well-posedness of the static problem and relations to the gauge theory of dislocations, Quarterly Journal of Mechanics and Applied Mathematics, 68 (1), pp. 53-84, 2015. (SRI 2016: 1.229, IF 2016: 1.213)</p> <p><i>Citată în:</i></p> <p>85) On the role of micro-inertia in enriched continuum mechanics By: Madeo, Angela; Neff, Patrizio; Aifantis, Elias C.; et al. PROCEEDINGS OF THE ROYAL SOCIETY A-MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES Volume: 473 Issue: 2198 Article Number: 20160722 Published: FEB 1 2017 (IF 2016: 2.146)</p> <p>86) Integrability conditions between the first and second Cosserat deformation tensor in geometrically nonlinear micropolar models and existence of minimizers By: Lankeit, Johannes; Neff, Patrizio; Osterbrink, Frank ZEITSCHRIFT FUR ANGEWANDTE MATHEMATIK UND PHYSIK Volume: 68 Issue: 1</p>	<p>8.748</p> <p>13.23</p> <p>10.935</p>	



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	<p>Article Number: UNSP 11 Published: FEB 2017 (IF 2016: 1.687)</p> <p>87) Irreducible decomposition of strain gradient tensor in isotropic strain gradient elasticity By: Lazar, Markus ZAMM-ZEITSCHRIFT FUR ANGEWANDTE MATHEMATIK UND MECHANIK Volume: 96 Issue: 11 Pages: 1291-1305 Published: NOV 2016 (IF 2016: 1.332)</p> <p>88) Micromorphic continua: non-redundant formulations By: Romano, Giovanni; Barretta, Raffaele; Diaco, Marina CONTINUUM MECHANICS AND THERMODYNAMICS Volume: 28 Issue: 6 Pages: 1659-1670 Published: NOV 2016 (IF 2016: 2.529)</p> <p>89) Complete band gaps including non-local effects occur only in the relaxed micromorphic model By: Madeo, Angela; Neff, Patrizio; d'Agostino, Marco Valerio; et al. COMPTES RENDUS MECANIQUE Volume: 344 Issue: 11-12 Pages: 784-796 Published: NOV-DEC 2016 (IF 2016: 1.029)</p> <p>90) Continuum and discrete models for unbalanced woven fabrics By: Madeo, Angela; Barbagallo, Gabriele; D'Agostino, Marco Valerio; et al. INTERNATIONAL JOURNAL OF SOLIDS AND STRUCTURES Volume: 94-95 Pages: 263-284 Published: SEP 2016 (IF 2016: 2.76)</p> <p>91) First evidence of non-locality in real band-gap metamaterials: determining parameters in the relaxed micromorphic model By: Madeo, Angela; Barbagallo, Gabriele; d'Agostino, Marco Valerio; et al. PROCEEDINGS OF THE ROYAL SOCIETY A-MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES Volume: 472 Issue: 2190 Article Number: 20160169 Published: JUN 1 2016 (IF 2016: 2.146)</p>	<p>9.16</p> <p>15.145</p> <p>7.645</p> <p>16.3</p> <p>13.23</p>	

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	<p>92) CONSTRAINT REACTION AND THE PEACH-KOEHLER FORCE FOR DISLOCATION NETWORKS By: Scala, Riccardo; Van Goethem, Nicolas MATHEMATICS AND MECHANICS OF COMPLEX SYSTEMS Volume: 4 Issue: 2 Pages: 105-138 Published: 2016</p> <p>I.D. Ghiba, E. Bulgariu. On spatial evolution of the solution of a non-standard problem in the bending theory of elastic plates, IMA Journal of Applied Mathematics, 80 (2), pp. 452-473, 2015. (SRI 2016: 0.875, IF 2016: 0.945)</p> <p><i>Citată în:</i></p> <p>93) Thick fibrous composite reinforcements behave as special second-gradient materials: three-point bending of 3D interlocks By: Madeo, Angela; Ferretti, Manuel; dell'Isola, Francesco; et al. ZEITSCHRIFT FUR ANGEWANDTE MATHEMATIK UND PHYSIK Volume: 66 Issue: 4 Pages: 2041-2060 Published: AUG 2015 (IF 2016: 1.687)</p> <p>94) Mechanics of contact between bi-material elastic solids perturbed by a flexible interface By: Selvadurai, A. P. S. IMA JOURNAL OF APPLIED MATHEMATICS Volume: 79 Issue: 5 Special Issue: SI Pages: 739-752 Published: OCT 2014 (IF 2016: 0.945)</p> <p>P. Neff, I.D. Ghiba, A. Madeo, L. Placidi, G. Rosi. A unifying perspective: the relaxed linear micromorphic continuum, Continuum Mechanics and Thermodynamics, 26, pp. 639-681, 2014. (marked as highly cited paper on Web of Science) (SRI 2016: 1.808, IF 2016: 2.529)</p> <p><i>Citată în:</i></p> <p>95) King post truss as a motif for internal structure of (meta) material with controlled</p>	<p>0</p> <p>21.87</p> <p>14.45</p> <p>10.972</p>	

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	<p>elastic properties By: Turco, Emilio; Giorgio, Ivan; Misra, Anil; et al. ROYAL SOCIETY OPEN SCIENCE Volume: 4 Issue: 10 Article Number: 171153 Published: OCT 2017 (IF 2016: 2.243)</p> <p>96) Mechanically-driven bone remodeling simulation: Application to LIPUS treated rat calvarial defects By: Scala, Ilaria; Spingarn, Camille; Remond, Yves; et al. MATHEMATICS AND MECHANICS OF SOLIDS Volume: 22 Issue: 10 Pages: 1976-1988 Published: OCT 2017 (IF 2016: 2.953)</p> <p>97) Theory and computation of higher gradient elasticity theories based on action principles By: Abali, B. Emek; Mueller, Wolfgang H.; dell'Isola, Francesco ARCHIVE OF APPLIED MECHANICS Volume: 87 Issue: 9 Pages: 1495-1510 Published: SEP 2017 (IF 2016: 1.49)</p> <p>98) A rapid numerical method for solving Serre-Green-Naghdi equations describing long free surface gravity waves By: Favrie, N.; Gavriluk, S. NONLINEARITY Volume: 30 Issue: 7 Pages: 2718-2736 Published: JUL 2017 (IF 2016: 1.767)</p> <p>99) Micromorphic prism element By: Ansari, R.; Bazdid-Vahdati, M.; Shakouri, A. H.; et al. MATHEMATICS AND MECHANICS OF SOLIDS Volume: 22 Issue: 6 Pages: 1438-1461 Published: JUN 2017 (IF 2016: 2.953)</p> <p>100) Semi-inverse method a la Saint-Venant for two-dimensional linear isotropic homogeneous second-gradient elasticity By: Placidi, Luca; El Dhaba, Amr Ramadan MATHEMATICS AND MECHANICS OF SOLIDS Volume: 22 Issue: 5 Pages: 919-937 Published: MAY 2017 (IF 2016: 2.953)</p> <p>101) The influence of different geometries of matrix/scaffold on the remodeling</p>	<p></p> <p>13.812</p> <p>7.96</p> <p>9.068</p> <p>13.812</p> <p>13.812</p> <p>13.812</p>	

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	2016: 1.687)		
	106) Micromorphic continua: non-redundant formulations By: Romano, Giovanni; Barretta, Raffaele; Diaco, Marina CONTINUUM MECHANICS AND THERMODYNAMICS Volume: 28 Issue: 6 Pages: 1659-1670 Published: NOV 2016 (IF 2016: 2.529)	12.116	
	107) Complete band gaps including non-local effects occur only in the relaxed micromorphic model By: Madeo, Angela; Neff, Patrizio; d'Agostino, Marco Valerio; et al. COMPTES RENDUS MECANIQUE Volume: 344 Issue: 11-12 Pages: 784-796 Published: NOV-DEC 2016 (IF 2016: 1.029)	6.116	
	108) Numerical simulations of classical problems in two-dimensional (non) linear second gradient elasticity By: Andreaus, Ugo; dell'Isola, Francesco; Giorgio, Ivan; et al. INTERNATIONAL JOURNAL OF ENGINEERING SCIENCE Volume: 108 Pages: 34-50 Published: NOV 2016 (IF 2016: 4.261)	19.044	
	109) On the Mindlin microelasticity in one dimension By: Berezovski, Arkadi MECHANICS RESEARCH COMMUNICATIONS Volume: 77 Pages: 60-64 Published: OCT 2016 (IF 2016: 1.667)	8.668	
	110) An analytical assessment of finite element and isogeometric analyses of the whole spectrum of Timoshenko beams By: Cazzani, Antonio; Stochino, Flavio; Turco, Emilio ZAMM-ZEITSCHRIFT FUR ANGEWANDTE MATHEMATIK UND MECHANIK Volume: 96 Issue: 10 Pages: 1220-1244 Published: OCT 2016 (IF 2016: 1.332)	7.328	
	111) Continuum and discrete models for unbalanced woven fabrics By: Madeo, Angela; Barbagallo, Gabriele; D'Agostino, Marco Valerio; et	13.04	

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	<p>al. INTERNATIONAL JOURNAL OF SOLIDS AND STRUCTURES Volume: 94-95 Pages: 263-284 Published: SEP 2016 (IF 2016: 2.76)</p> <p>112) First evidence of non-locality in real band-gap metamaterials: determining parameters in the relaxed micromorphic model By: Madeo, Angela; Barbagallo, Gabriele; d'Agostino, Marco Valerio; et al. PROCEEDINGS OF THE ROYAL SOCIETY A-MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES Volume: 472 Issue: 2190 Article Number: 20160169 Published: JUN 1 2016 (IF 2016: 2.146)</p> <p>113) Towards the design of an enriched concrete with enhanced dissipation performances By: Scerrato, D.; Giorgio, I.; Della Corte, A.; et al. CEMENT AND CONCRETE RESEARCH Volume: 84 Pages: 48-61 Published: JUN 2016 (IF 2016: 4.762)</p> <p>114) Anisotropic and dispersive wave propagation within strain-gradient framework By: Rosi, G.; Auffray, N. WAVE MOTION Volume: 63 Pages: 120-134 Published: JUN 2016 (IF 2016: 1.575)</p> <p>115) Numerical treatment of a geometrically nonlinear planar Cosserat shell model By: Sander, Oliver; Neff, Patrizio; Birsan, Mircea COMPUTATIONAL MECHANICS Volume: 57 Issue: 5 Pages: 817-841 Published: MAY 2016 (IF 2016: 2.861)</p> <p>116) Nonlinear regularization operators as derived from the micromorphic approach to gradient elasticity, viscoplasticity and damage By: Forest, Samuel PROCEEDINGS OF THE ROYAL SOCIETY A-MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES Volume: 472 Issue: 2188</p>	<p>10.584</p> <p>21.048</p> <p>8.3</p> <p>13.444</p> <p>10.584</p>	

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	<p>Article Number: 20150755 Published: APR 1 2016 (IF 2016: 2.146)</p> <p>117) On the whole spectrum of Timoshenko beams. Part II: further applications By: Cazzani, Antonio; Stochino, Flavio; Turco, Emilio ZEITSCHRIFT FUR ANGEWANDTE MATHEMATIK UND PHYSIK Volume: 67 Issue: 2 Article Number: 25 Published: APR 2016 (IF 2016: 1.687)</p> <p>118) On the whole spectrum of Timoshenko beams. Part I: a theoretical revisitation By: Cazzani, Antonio; Stochino, Flavio; Turco, Emilio ZEITSCHRIFT FUR ANGEWANDTE MATHEMATIK UND PHYSIK Volume: 67 Issue: 2 Article Number: 24 Published: APR 2016 (IF 2016: 1.687)</p> <p>119) Material symmetry group and constitutive equations of micropolar anisotropic elastic solids By: Eremeyev, Victor A.; Pietraszkiewicz, Wojciech MATHEMATICS AND MECHANICS OF SOLIDS Volume: 21 Issue: 2 Special Issue: SI Pages: 210-221 Published: FEB 2016 (IF 2016: 2.953)</p> <p>120) Deformation of an elastic magnetizable square rod due to a uniform electric current inside the rod and an external transverse magnetic field By: El Dhaba, A. R.; Ghaleb, A. F.; Placidi, L. MATHEMATICS AND MECHANICS OF SOLIDS Volume: 21 Issue: 2 Special Issue: SI Pages: 222-241 Published: FEB 2016 (IF 2016: 2.953)</p> <p>121) Dev-Div- And Devsym-DevCurl-Inequalities For Incompatible Square Tensor Fields With Mixed Boundary Conditions By: Bauer, Sebastian; Neff, Patrizio; Pauly, Dirk; et al. ESAIM-CONTROL OPTIMISATION AND CALCULUS OF</p>	<p>8.748</p> <p>8.748</p> <p>13.812</p> <p>13.812</p> <p>8.16</p>	

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	126) Numerical investigations of ultrasound wave propagating in long bones using a poroelastic model By: Rosi, Giuseppe; Vu-Hieu Nguyen; Naili, Salah MATHEMATICS AND MECHANICS OF SOLIDS Volume: 21 Issue: 1 Special Issue: SI Pages: 119-133 Published: JAN 2016 (IF 2016: 2.953)	13.812	
	127) A micro-structural model for dissipation phenomena in the concrete By: Scerrato, D.; Giorgio, I.; Della Corte, A.; et al. INTERNATIONAL JOURNAL FOR NUMERICAL AND ANALYTICAL METHODS IN GEOMECHANICS Volume: 39 Issue: 18 Pages: 2037-2052 Published: DEC 25 2015 (IF 2016: 2.342)	11.368	
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	<p>AG MATHEMATICS AND MECHANICS OF SOLIDS Volume: 20 Issue: 7 Special Issue: SI Pages: 806-822 Published: AUG 2015 (IF 2016: 2.146)</p> <p>135) Elastic pantographic 2D lattices: a numerical analysis on the static response and wave propagation By: dell'Isola, Francesco; Giorgio, Ivan; Andreaus, Ugo Conference: IUTAM SYMPOSIUM ON COMPLEXITY OF NONLINEAR WAVES Location: Tallinn, ESTONIA Date: SEP 08-12, 2014 Sponsor(s): Tallinn Univ Technol, Inst Cybernet, Ctr Nonlinear Stud PROCEEDINGS OF THE ESTONIAN ACADEMY OF SCIENCES Volume: 64 Issue: 3 Special Issue: SI Pages: 219-225 Published: 2015 (IF 2016: 0.737)</p> <p>136) Piezo-electromechanical smart materials with distributed arrays of piezoelectric transducers: Current and upcoming applications By: Giorgio, Ivan; Galantucci, Luca; Della Corte, Alessandro; et al. INTERNATIONAL JOURNAL OF APPLIED ELECTROMAGNETICS AND MECHANICS Volume: 47 Issue: 4 Pages: 1051-1084 Published: 2015 (IF 2016: 0.769)</p> <p>E. Bulgariu, I.D. Ghiba. On the thermal stresses in anisotropic porous cylinders, Discrete and Continuous Dynamical Systems - Series S, 6, December, pp. 1539-1550, 2013. (SRI 2016: necalculat, IF 2016: 0.781)</p> <p><i>Citată în:</i></p> <p>137) Thick fibrous composite reinforcements behave as special second-gradient materials: three-point bending of 3D interlocks By: Madeo, Angela; Ferretti, Manuel; dell'Isola, Francesco; et al. ZEITSCHRIFT FUR ANGEWANDTE MATHEMATIK UND PHYSIK Volume: 66 Issue: 4 Pages: 2041-2060</p>	<p>4.948</p> <p>5.076</p> <p>21.87</p>	

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	<p>142) Analysis of nonlinear characteristics for thermoelastic half plane with voids By: Zhu, Yuan-Yuan; Li, Ying; Cheng, Chang-Jun JOURNAL OF THERMAL STRESSES Volume: 37 Issue: 7 Pages: 794-816 Published: 2014 (IF 2016: 1.493)</p> <p>S. Chiriță, I.D. Ghiba. Rayleigh waves in Cosserat elastic materials, International Journal of Engineering Science, 51, pp. 117-127, 2012. (SRI 2016: 2.646, IF 2016: 4.261)</p> <p><i>Citată în:</i></p> <p>143) Reflection of longitudinal displacement wave at the viscoelastically supported boundary of micropolar half-space By: Zhang, Peng; Wei, Peijun; Li, Yueqiu MECCANICA Volume: 52 Issue: 7 Pages: 1641-1654 Published: MAY 2017 (IF 2016: 2.196)</p> <p>144) Non-classical continuum theory for solids incorporating internal rotations and rotations of Cosserat theories By: Surana, K. S.; Joy, A. D.; Reddy, J. N. CONTINUUM MECHANICS AND THERMODYNAMICS Volume: 29 Issue: 2 Pages: 665-698 Published: MAR 2017 (IF 2016: 2.529)</p> <p>145) Effect of microtemperatures for micropolar thermoelastic bodies By: Marin, Marin; Baleanu, Dumitru; Vlas, Sorin STRUCTURAL ENGINEERING AND MECHANICS Volume: 61 Issue: 3 Pages: 381-387 Published: FEB 10 2017 (IF 2016: 1.118)</p> <p>146) Wave Propagation Through a Micropolar Slab Sandwiched by Two Elastic Half-Spaces By: Zhang, Peng; Wei, Peijun; Li, Yueqiu JOURNAL OF VIBRATION AND ACOUSTICS-TRANSACTIONS OF THE ASME Volume: 138 Issue: 4 Article Number: 041008 Published: AUG 2016 (IF</p>	<p>39.86</p> <p>26.96</p> <p>30.29</p> <p>16.18</p> <p>21.92</p>	

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	<p>2016: 0.422)</p> <p>156) Potential Method in the Linear Theory of Viscoelastic Materials with Voids By: Svanadze, Maia M. JOURNAL OF ELASTICITY Volume: 114 Issue: 1 Pages: 101-126 Published: JAN 2014 (IF 2016: 1.909)</p> <p>157) Rayleigh Waves on an Exponentially Graded Poroelastic Half Space By: Chirita, Stan JOURNAL OF ELASTICITY Volume: 110 Issue: 2 Pages: 185-199 Published: FEB 2013 (IF 2016: 1.909)</p> <p>158) On a Theory of Thermoviscoelastic Materials with Voids By: Iesan, D. JOURNAL OF ELASTICITY Volume: 104 Issue: 1-2 Special Issue: SI Pages: 369-384 Published: AUG 2011 (IF 2016: 1.909)</p> <p>S. Chiriță, I.D. Ghiba. Strong ellipticity and progressive waves in elastic materials with voids, Proceedings of the Royal Society A, 466, pp. 439-458, 2010. (SRI 2016: 2.223, IF 2016: 2.146)</p> <p><i>Citată în:</i></p> <p>159) Porous-micro-dilatation theory for random crystallization: Monte Carlo simulation for delayed ettringite formation By: Jeong, Jena; Ramezani, Hamidreza; Leklou, Nordine ACTA MECHANICA Volume: 228 Issue: 9 Pages: 3223-3249 Published: SEP 2017 (IF 2016: 1.851)</p> <p>160) Uniqueness and stability in triple porosity thermoelasticity By: Straughan, Brian RENDICONTI LINCEI-MATEMATICA E APPLICAZIONI Volume: 28 Issue: 2 Pages: 191-208 Published: 2017 (IF 2016: 1.096)</p> <p>161) Why does the modified Arrhenius' law fail to describe the hydration modeling of recycled aggregate? By: Jeong, Jena; Ramezani, Hamidreza; Leklou,</p>	<p>24.09</p> <p>24.09</p> <p>24.09</p> <p>23.21</p> <p>15.93</p> <p>27.36</p>	



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	<p>172) A Spatial Decay Estimate In Thermoviscoelastic Composite Cylinders By: Gales, Catalin ANALELE STIINTIFICE ALE UNIVERSITATII AL I CUZA DIN IASI-SERIE NOUA-MATEMATICA Volume: 57 Issue: 1 Pages: 111-129 Published: 2011 (IF 2016: 0.108)</p> <p>S. Chiriță, C. Galeș, I.D. Ghiba. On spatial behavior of the harmonic vibrations in Kelvin-Voigt materials, Journal of Elasticity, 93, pp. 81-92, 2008. (SRI 2016: 2.044, IF 2016: 1.909)</p> <p><i>Citată în:</i></p> <p>173) Plane waves and problems of steady vibrations in the theory of viscoelasticity for Kelvin-Voigt materials with double porosity By: Svanadze, M. M. ARCHIVES OF MECHANICS Volume: 68 Issue: 6 Pages: 441-458 Published: 2016 (IF 2016: 1.157)</p> <p>174) Reflection and Transmission of Plane Dilatational Wave at a Plane Interface Between an Elastic Solid Half-Space and a Thermo-viscoelastic Solid Half-Space with Voids By: Bhagwan, Jai; Tomar, S. K. JOURNAL OF ELASTICITY Volume: 121 Issue: 1 Pages: 69-88 Published: OCT 2015 (IF 2016: 1.909)</p> <p>175) On The Spatial Behavior Of The Steady-State Vibrations In Thermoviscoelastic Porous Materials By: Chirita, Stan JOURNAL OF THERMAL STRESSES Volume: 38 Issue: 1 Pages: 96-109 Published: 2015 (IF 2016: 1.493)</p> <p>176) Spatial Behavior In The Vibrating Thermoviscoelastic Porous Materials By: Chirita, Stan DISCRETE AND CONTINUOUS DYNAMICAL SYSTEMS-SERIES B Volume: 19 Issue: 7 Special Issue: SI Pages: 2027-2038</p>	<p>6.08</p> <p>11.046</p> <p>16.06</p> <p>13.286</p> <p>9.96</p>	

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	<p>183) On the Harmonic Vibrations in Linear Thermoelasticity Without Energy Dissipation By: Chirita, S.; Ciarletta, M. JOURNAL OF THERMAL STRESSES Volume: 33 Issue: 9 Pages: 858-878 Article Number: PII 925504999 Published: 2010 (IF 2016: 1.493)</p> <p>184) On Spatial Behavior of the Harmonic Vibrations in Thermoviscoelastic Mixtures By: Gales, C. JOURNAL OF THERMAL STRESSES Volume: 32 Issue: 5 Pages: 512-529 Article Number: PII 909820750 Published: 2009 (IF 2016: 1.493)</p> <p>I.D. Ghiba. Spatial estimates concerning the harmonic vibrations in rectangular plates with voids, Archives of Mechanics, 60, pp. 263-279, 2008. (SRI 2016: 1.030, IF 2016: 1.157)</p> <p><i>Citată în:</i></p> <p>185) Existence of torsional surface wave in a porous crustal layer over an initially stressed inhomogeneous half-space By: Gupta, Shishir; Sultana, Rehena; Verma, Arun Kumar JOURNAL OF VIBRATION AND CONTROL Volume: 22 Issue: 7 Pages: 1717-1728 Published: APR 2016 (IF 2016: 2.101)</p> <p>186) Rayleigh Waves on an Exponentially Graded Poroelastic Half Space By: Chirita, Stan JOURNAL OF ELASTICITY Volume: 110 Issue: 2 Pages: 185-199 Published: FEB 2013 (IF 2016: 1.909)</p> <p>187) On spatial behavior of harmonic vibrations in viscoelastic Reissner-Mindlin plates By: Gales, C. INTERNATIONAL JOURNAL OF SOLIDS AND STRUCTURES Volume: 48 Issue: 2 Pages: 243-248 Published: JAN 15 2011 (IF 2016: 2.76)</p>	<p>13.286</p> <p>13.286</p> <p>52.02</p> <p>48.18</p> <p>65.2</p>	

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CRITERII	DESCRIPTORI	PUNCTAJE ACORDATE	PUNCTE OBȚINUTE
	<p>MATERIALS AND STRUCTURES Book Series: Advanced Structured Materials Volume: 60 Pages: 391-413 Published: 2016</p> <p>A. Madeo, P. Neff, I.D. Ghiba, L. Placidi, G. Rosi. Wave propagation in relaxed micromorphic continua: modelling metamaterials with frequency band-gaps, Continuum Mechanics and Thermodynamics, 27, pp, 551-570, 2015. (SRI 2016: 1.808, IF 2016: 2.529)</p> <p><i>Citată în:</i></p> <p>196) On the Dislocation Density Tensor in the Cosserat Theory of Elastic Shells By: Birsan, Mircea; Neff, Patrizio Edited by: Naumenko, K; Assmus, M ADVANCED METHODS OF CONTINUUM MECHANICS FOR MATERIALS AND STRUCTURES Book Series: Advanced Structured Materials Volume: 60 Pages: 391-413 Published: 2016</p> <p>P. Neff, I.D. Ghiba, A. Madeo, L. Placidi, G. Rosi. A unifying perspective: the relaxed linear micromorphic continuum, Continuum Mechanics and Thermodynamics, 26, pp, 639-681, 2014. (marked as highly cited paper on Web of Science) (SRI 2016: 1.808, IF 2016: 2.529)</p> <p><i>Citată în:</i></p> <p>197) On the Dislocation Density Tensor in the Cosserat Theory of Elastic Shells By: Birsan, Mircea; Neff, Patrizio Edited by: Naumenko, K; Assmus, M ADVANCED METHODS OF CONTINUUM MECHANICS FOR MATERIALS AND STRUCTURES Book Series: Advanced Structured Materials Volume: 60 Pages: 391-413 Published: 2016</p> <p>S. Chiriță, I.D. Ghiba. Inhomogeneous plane waves in elastic materials with voids, Wave</p>	<p>10</p> <p>10</p>	



CRITERII	DESCRIPTORI	PUNCTAJE ACORDATE	PUNCTE OBTINUTE
	Motion, 47, pp. 333-342, 2010. (SRI 2016: 1.415, IF 2016: 1.575) <i>Citată în:</i> 198) On a Theory of Thermoviscoelastic Materials with Voids By: Iesan, D. Edited by: Fosdick, R; Fried, E; Tortorelli, D METHODS AND TASTES IN MODERN CONTINUUM MECHANICS: TO THE MEMORY OF DONALD E. CARLSON Pages: 369-384 Published: 2011	10	
	199) Heat Waves By: Straughan, Brian HEAT WAVES Book Series: Applied Mathematical Sciences-Series Volume: 177 Pages: 1-314 Published: 2011 S. Chiriță, I.D. Ghiba. Strong ellipticity and progressive waves in elastic materials with voids, Proceedings of the Royal Society A, 466, pp. 439-458, 2010. (SRI 2016: 2.223, IF 2016: 2.146) <i>Citată în:</i> 200) Heat Waves By: Straughan, Brian HEAT WAVES Book Series: Applied Mathematical Sciences-Series Volume: 177 Pages: 1-314 Published: 2011	10	
		monografii academice din țară: 25 puncte / număr autori, pentru fiecare citare	X
	<b>13. Lucrări susținute în calitate de invitat la manifestări științifice (conferințe, congrese, simpozioane, seminarii și ateliere de lucru)</b>  1. A non-rank-one convexity result involving logarithmic strain measures, 14 Decembrie, INSA-Lyon, Franța, 2017. 2. A non-rank-one convexity result involving geodesically motivated logarithmic strain measures, ISDMM, Lyon, Franța, 26-29 Iunie 2017.	străinătate: 25 puncte pentru fiecare activitate  13x25=325 puncte	325 puncte
		țară: 10 puncte pentru	70 puncte

CRITERII	DESCRIPTORI	PUNCTAJE ACORDATE	PUNCTE OBTINUTE
	<p>3. About some questions regarding the polyconvexity and rank-one convexity of Hencky-type energies and loss of ellipticity, Emerging trends in applied mathematics and mechanics, Laboratory of Mathematics and Physics, Perpignan, Franța, 30 Mai-3 Iunie 2016.</p> <p>4. On some Hencky-type energies, XIII-eme Colloque Franco-Roumain de Mathematiques Appliquees, Alexandru Ioan Cuza of Iași, România, 25-29 August 2016</p> <p>5. Loss of ellipticity for non-coaxial plastic deformations in additive logarithmic finite strain plasticity and other related results on Hencky-type energies, 86th Annual Meeting of the GAMM, Braunschweig, Germany, 7-11 Martie 2016.</p> <p>6. The relaxed micromorphic continuum model, 85th Annual Meeting of the GAMM, Erlangen, Germany, 10-14 Martie 2014.</p> <p>7. On the study of Saint-Venant problem for porous cylinders using a semi-inverse method, University of Duisburg-Essen, Faculty of Mathematics, 27 Septembrie 2012.</p> <p>8. Semi-inverse solutions for the deformation of porous cylinders, 8th European Solid Mechanics Conference, Graz, Austria, 9-13 Iulie 2012.</p> <p>9. Representation formulas and existence results in the theory of micropolar solid-fluid mixtures under steady state vibrations, 6th European Congress of Mathematics, Krakow, Poland, 2-7 Iulie 2012.</p> <p>10. Homogeneous and inhomogeneous plane waves in elastic materials with voids, International Conference on Material Modelling (ICMM2), Paris, France, 29 August-3 Septembrie 2011.</p> <p>11. Strong ellipticity and waves in elastic materials with voids, The Seventh</p>	<p>fiecare activitate</p> <p>7x10=70 puncte</p>	

CRITERII	DESCRIPTORI	PUNCTAJE ACORDATE	PUNCTE OBTINUTE
	<p>Congress of Romanian Mathematicians, Brasov, România, 29 Iunie-5 Iulie 2011.</p> <p>12. Homogeneous and inhomogeneous plane waves in elastic materials with voids, in the Nonlinear Water Waves Programmes, The Erwin Schrodinger International Institute for Mathematical Physics (ESI), Vienna, Austria, 14 Iunie 2011.</p> <p>13. On the asymptotic partition of energy in micromorphic thermopiezoelectricity, 9th International Congress on Thermal Stresses, Budapest, Hungary, 5-9 Iunie 2011.</p> <p>14. On the relaxed Saint-Venant's problem for transversely isotropic porous elastic circular cylinder, 10eme Colloque Franco-Roumain de Mathematiques Appliquees, Poitiers, Franța, 26-31 August 2010.</p> <p>15. Some estimates describing the behaviour of the solution in micropolar solid-fluid mixture theory, International Student Conference on Pure and Applied Mathematics, Iași, România, 2010.</p> <p>16. Representations of the solution and existence results in micropolar solid-fluid mixtures theory, "Alexandru Myller" Mathematical Seminar Centennial Conference, Iași, România, 12-16 Iunie 2010.</p> <p>17. On the existence and behaviour of the solution in the theory of micropolar mixtures, "Alexandru Mylle" National Mathematics Conference for University Students, Iași, România, Iulie 2009.</p> <p>18. On the deformation of elastic cylinders with voids, 9eme Colloque Franco-Roumain de Mathematiques Appliquees, Brașov, România, 28 August-2 Septembrie 2008</p>		

CRITERII	DESCRIPTORI	PUNCTAJE ACORDATE	PUNCTE OBTINUTE
	<p>19. Existence and Uniqueness Results in the Micropolar Mixture Theory of Porous Media, ICAADE, Iași, România, 4-9 Septembrie 2006.</p> <p>20. On the Micropolar Mixture Theory of Porous Media, Conference of young scientists, Computer Algebra and Scientific Computation, Chișinău, Republica Moldova, Septembrie 2006.</p>		
	<p><b>13.</b> Profesor / cercetător invitat la universități / institute de cercetare</p> <ul style="list-style-type: none"> <li>• INSA-Lyon, 8-20 Decembrie 2017.</li> <li>• Universitatea Duisburg-Essen, Germania, 29 Aprilie-9 Mai 2017.</li> <li>• Universitatea Duisburg-Essen, Germania, 28 Noiembrie-5 Decembrie 2016.</li> <li>• Universitatea Duisburg-Essen, Germania, 1-30 Septembrie 2013.</li> <li>• Universitatea Duisburg-Essen, Germania, 6 Iunie-4 Iulie 2013.</li> <li>• Universitatea Duisburg-Essen, Germania, 27 August-29 Septembrie 2012.</li> <li>• The Erwin Schrodinger International Institute for Mathematical Physics (ESI), Viena, Austria, 12-26 Iunie 2011.</li> </ul>	<p>străinătate: 25 puncte pentru fiecare activitate 7x 25=175 puncte</p>	175 puncte
		<p>țară: 10 puncte pentru fiecare activitate</p>	X
		<p>reviste cotate <i>Web of Science</i>: editor, 30 puncte pentru fiecare revistă; membru, 20 puncte pentru fiecare revistă</p>	X
	<p><b>15.</b> Editor/Membru în <i>Editorial Board &amp; Advisory Board</i></p>	<p>reviste internaționale și alte reviste ale Universității: editor - 15 puncte pentru fiecare revistă; membru - 10 puncte pentru fiecare revistă</p>	X
	<p><b>16.</b> Premii internaționale obținute printr-un proces de selecție</p>	100 puncte / categorie / număr	X



CRITERII	DESCRIPTORI	PUNCTAJE ACORDATE	PUNCTE OBTINUTE
	<ul style="list-style-type: none"> <li>Chairman al International Student Conference on Pure and Applied Mathematics (ISCOPAM), Iași, România, iulie 2010.</li> <li>Membru în comitetul de organizare a Sesiunii Naționale de Comunicări științifice Studentești de Matematică (SNCSSM) organizată de Facultatea de Matematică, Universitatea "Alexandru Ioan Cuza", Iași, 2007.</li> <li>Membru în comitetul de organizare a Sesiunii Naționale de Comunicări științifice Studentești de Matematică (SNCSSM) organizată de Facultatea de Matematică, Universitatea "Alexandru Ioan Cuza", Iași, 2006.</li> <li>Membru în comitetul de organizare a Sesiunii Naționale de Comunicări științifice Studentești de Matematică (SNCSSM) organizată de Facultatea de Matematică, Universitatea "Alexandru Ioan Cuza", Iași, 2005.</li> </ul>	<p>pentru fiecare activitate</p> <ul style="list-style-type: none"> <li>15 puncte</li> <li>5 puncte</li> <li>5 puncte</li> <li>5 puncte</li> </ul>	
<b>II. ACTIVITATEA DIDACTICĂ (30%)</b>	1. Tratatate și manuale universitare	30 puncte la 100 pagini / număr de autori	X
	2. Proiecte didactice (înființare/dotare laboratoare licență, master, săli workshop, biblioteci proprii facultăților, departamentelor, laboratoarelor și grupurilor de cercetare)	40 puncte pentru fiecare activitate	X
	3. Materiale suport curs, seminar, lucrări practice și programe analitice detaliate <ul style="list-style-type: none"> <li>Suport de curs si seminar pentru disciplina Mecanica predată la anul II licență, Facultatea de Matematică a Universității Alexandru Ioan Cuza din Iași <a href="http://www.math.uaic.ro/~ghiba/teaching.html">http://www.math.uaic.ro/~ghiba/teaching.html</a></li> <li>Suport de curs si seminar pentru disciplina Gewöhnliche Differentialgleichungen</li> </ul>	10 puncte pentru fiecare activitate  10 puncte  10 puncte	50 puncte

CRITERII	DESCRIPTORI	PUNCTAJE ACORDATE	PUNCTE OBTINUTE
	<p>WS 2014/15, Facultatea de Matematică a Universității Duisburg-Essen  <a href="https://moodle.uni-due.de/course/view.php?id=4838">https://moodle.uni-due.de/course/view.php?id=4838</a></p> <ul style="list-style-type: none"> <li>• Suport de seminar pentru disciplina Analysis 1 SoSe 2015, SoSe 2016, Facultatea de Matematică a Universității Duisburg-Essen  <a href="https://moodle.uni-due.de/course/view.php?id=5761">https://moodle.uni-due.de/course/view.php?id=5761</a></li> <li>• Suport de seminar pentru disciplina Analysis 2 WiSe 2016, Facultatea de Matematică a Universității Duisburg-Essen  <a href="https://moodle.uni-due.de/course/view.php?id=7008">https://moodle.uni-due.de/course/view.php?id=7008</a></li> <li>• Suport de seminar pentru disciplina Algebră liniară predată la anul I licență, Facultatea de Matematică a Universității Alexandru Ioan Cuza din Iași  <a href="http://www.math.uaic.ro/~ghiba/teaching.html">http://www.math.uaic.ro/~ghiba/teaching.html</a></li> </ul>	10 puncte	
	4. Organizare de aplicații și practică de specialitate	5 puncte pentru fiecare activitate	X

**I. ACTIVITATEA DE CERCETARE: 7413.608 puncte**

**II. ACTIVITATEA DIDACTICĂ 50 puncte**

**TOTAL  $70/100 \times 7413.608$  puncte +  $30/100 \times 50$  puncte = 5204.525 puncte**

**Dr. Ionel-Dumitrel GHIBA**