

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
a îndeplinirii standardelor minimale ale universității (domeniul Matematică)
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: $C = 30.412$, $C_{recent} = 17.783$, $C_{up} = 9.419$

Puncte necesare: $C_{recent} \geq 1$, $C_{up} \geq 0.5$

	Articol, referința bibliografică	Publicat în ultimii 7 ani	Publicat în ultimii 3 ani	s_i	n_i	s_i / n_i
1.	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)	x	x	1.616	3	0.538
2.	G. Barbagallo, M.V. D'Agostino, R. Abreu, I.D. Ghiba, A. Madeo, P. Neff. Transparent anisotropy for the relaxed micromorphic model: macroscopic	x	x	1.915	6	0.319

	consistency conditions and long wave length asymptotics, International Journal of Solids and Structures, 120, pp. 7-30, 2017. (SRI 2016: 1.915)					
3.	I.D. Ghiba, P. Neff, A. Madeo, I. Münch. 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)	x	x	1.328	4	0.332
4.	I. Münch, 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)	x	x	1.207	4	0.301
5.	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)	x	x	1.207	5	0.241
6.	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)	x	x	2.223	6	0.37
7.	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)	x	x	4.399	4	1.099
8.	A. Madeo, I.D. Ghiba, P. Neff, I. Münch. 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)	x	x	1.704	4	0.426

9.	P. Neff, I. Münch, 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)	x	x	1.915	4	0.478
10	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)	x	x	1.364	2	0.682
11	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)	x	x	1.808	2	0.904
12	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)	x	x	2.223	3	0.741
13	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)	x	x	1.364	3	0.454
14	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)	x	x	1.213	5	0.242
15	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)	x	x	2.044	3	0.681
16	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)	x	x	1.207	5	0.241

17	I.D. Ghiba, P. Neff, A. Madeo, L. Placidi, G. Rosi. The relaxed linear micromorphic continuum: existence, uniqueness and continuous dependence in dynamics, <i>Mathematics and Mechanics of Solids</i> , 68, pp. 53-84, 2015. (SRI 2016: 1.328)	x	x	1.328	5	0.265
18	A. Madeo, P. Neff, I.D. Ghiba, L. Placidi, G. Rosi. Wave propagation in relaxed micromorphic continua: modelling metamaterials with frequency band-gaps, <i>Continuum Mechanics and Thermodynamics</i> , 27, pp, 551-570, 2015. (SRI 2016: 1.808)	x	x	1.808	5	0.361
19	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, <i>Quarterly Journal of Mechanics and Applied Mathematics</i> , 68 (1), pp. 53-84, 2015. (SRI 2016: 1.229)	x	x	1.229	4	0.307
20	I.D. Ghiba, E. Bulgariu. On spatial evolution of the solution of a non-standard problem in the bending theory of elastic plates, <i>IMA Journal of Applied Mathematics</i> , 80 (2), pp. 452-473, 2015. (SRI 2016: 0.875)	x	x	0.875	2	0.437
21	P. Neff, I.D. Ghiba, A. Madeo, L. Placidi, G. Rosi. A unifying perspective: the relaxed linear micromorphic continuum, <i>Continuum Mechanics and Thermodynamics</i> , 26, pp, 639-681, 2014. (SRI 2016: 1.808)	x		1.808	5	0.361
22	E. Bulgariu, I.D. Ghiba. On the thermal stresses in anisotropic porous cylinders, <i>Discrete and Continuous Dynamical Systems - Series S</i> , 6, December, pp. 1539-1550, 2013. (SRI 2016: necalculat)	x		0	2	0
23	I.D. Ghiba. On the spatial behaviour in bending theory of porous thermoelastic plates. <i>Journal of Mathematical Analysis and Applications</i> , 403, pp. 129-142, 2013. (SRI 2016: 1.125)	x		1.125	1	1.125
24	I.D. Ghiba, C. Galeş. Some qualitative results in the linear theory of micropolar	x		1.000	2	0.500

	solid-solid mixtures, Journal of Thermal Stresses, 36, pp. 426-445, 2013. (SRI 2016: 1.000)					
25	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)	x		1.207	1	1.207
26	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)	x		0.733	2	0.366
27	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)	x		2.646	2	1.323
28	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)	x		1.000	3	0.333
29	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)	x		1.704	1	1.704
30	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)	x		1.000	1	1.000
31	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)	x		0.891	2	0.445
32	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)			1.704	1	1.704
33	S. Chiriță, I.D. Ghiba. Inhomogeneous plane waves in elastic materials with voids,			1.415	2	0.707

	Wave Motion, 47, pp. 333-342, 2010. (SRI 2016: 1.415)					
34	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)			2.223	2	1.111
35	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)			1.030	1	1.030
36	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)			1.125	1	1.125
37	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)			2.044	3	0.681
38	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)			1.030	1	1.030
39	I.D. Ghiba. Asymptotic partition of energy in micropolar mixture theory of porous media, Meccanica, 43, pp. 639-649, 2008. (SRI 2016: 0.891)			0.891	1	0.891
40	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)			1.704	1	1.704
41	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)			2.646	1	2.646

TOTAL:		$C = 30.412$
		$C_{recent} = 17.783$
		$C_{up} = 9.419$

Notă:

s_i reprezintă scorul relativ de influență al revistei științifice în care a fost publicat articolul i , și este dat preluat de pe site-ul http://old.uefiscdi.ro/userfiles/file/CENAPOSS/RIS_2016.pdf;

n_i reprezintă numărul de autori ai articolului i ;

$$C = \sum_{i \in M} \frac{s_i}{n_i}, \quad C_{recent} = \sum_{i \in M_{recent}} \frac{s_i}{n_i}, \quad C_{up} = \sum_{i \in M_{up}} \frac{s_i}{n_i}, \text{ unde } M \text{ este mulțimea articolelor științifice care prezintă contribuții originale, în extenso,}$$

publicate de candidat, ca autor sau coautor, în reviste ISI care au un scor relativ de influență mai mare sau egal cu 0.5,

M_{recent} este mulțimea articolelor științifice care prezintă contribuții originale, în extenso, publicate de candidat, ca autor sau coautor, în ultimii 7 ani calendaristici anteriori depunerii dosarului pentru evaluare (incluzând anul înscrierii la concurs), în reviste care au un scor relativ de influență mai mare sau egal cu 0.5 iar M_{up} este mulțimea articolelor științifice care prezintă contribuții originale, în extenso, publicate de candidat, ca autor sau coautor, în ultimii 3 ani calendaristici anteriori depunerii dosarului pentru evaluare (incluzând anul înscrierii la concurs) (în cazul în care candidatul este din afara universității), în reviste care au un scor relativ de influență mai mare sau egal cu 0.5.

Modul de îndeplinire a standardelor minimale ale universității (domeniul Matematică):

$$C_{recent} = 17.783 \geq 1 \text{ și } C_{up} = 9.419 \geq 0.5$$

Data:

30.12.2017

Candidat:

Dr. Ionel-Dumitrel GHIBA