

Anexa 2a

Titlu proiect: Metode matematice aplicate în studiul sistemelor mecanice

Categoria de proiect: Proiecte de cercetare pentru stimularea constituirii de tinere echipe de cercetare independente

Contractul de finanțare: nr. 127/01.10.2015, PN-II-RU-TE-2014-4-0320

Manager proiect: Dr. Ionel-Dumitrel GHIBA

Lista rezultate

Nr. crt.	NUME AUTORI	TITLUL ARTICOLULUI/ CĂRȚII / COMUNICĂRII ȘTIINȚIFICE	REVISTA / VOLUMUL/EDITURA IN CARE A APARUT / CONFERINȚA LA CARE S-A COMUNICAT	ANUL PUBLICĂRII/ COMUNICĂRII
ARTICOLE ISI				
1.	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: 477-487,	2016
2.	I.D. Ghiba, P. Neff, R.J. Martin	An ellipticity domain for the distortional Hencky-logarithmic strain energy	Proceedings of the Royal Society A: Mathematical, Physical & Engineering Sciences 471, doi:10.1098/rspa.2015.0510	2015
3.	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): 571-597	2017
4.	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: 7-30	2017
5.	A. Celletti, C. Gales	Dynamical investigation of minor resonances for space debris	Celestial Mechanics and Dynamical Astronomy 123: 203-222	2015
6.	A. Celletti, C. Gales, G. Pucacco	Bifurcation of lunisolar secular resonances for space debris orbits	SIAM Journal on Applied Dynamical Systems 15: 1352-1383	2016
7.	C. Lhotka,	Poynting-Robertson drag and solar	Monthly Notices of the Royal	2016

	A. Celletti, C. Gales	wind in the space debris problem	Astronomical Society 460: 802-815	
8.	A. Celletti, C. Gales, G. Pucacco, A. Rosengren,	Analytical development of the lunisolar disturbing function and the critical inclination secular resonance	Celestial Mechanics and Dynamical Astronomy, 127: 259-283,	2017
9.	A. Bucur	Rayleigh surface waves problem in linear thermoviscoelasticity with voids	Acta mechanica 227: 1199-1212	2016
10.	I. Roventa	A note on majorization via perturbed minimizers	Journal of Mathematical Inequalities, in print	2017
11.	P. Lissy, I. Roventa	Optimal filtration for the approximation of boundary controls for the one-dimensional wave equation	Mathematics of Computation, DOI: https://doi.org/10.1090/mcom/3345	2017
12.	C. Burtea	New long time existence results for a class of Boussinesq-type systems	Journal de Mathematiques Pures et Appliquees 106: 203-236	2016
13.	C. Burtea	Long time existence results for bore-type initial data for BBM-Boussinesq systems	Journal of Differential Equation 261: 4729-5288	2016
14.	C. Burtea	Optimal well-posedness for the inhomogeneous incompressible Navier-Stokes system with general viscosity	Analysis and PDE Vol. 10, 2: 439-479	2017
15.	C. Burtea, F. Charve	Lagrangian methods for a general inhomogeneous incompressible Navier-Stokes-Korteweg system with variable capillarity and viscosity coefficients	SIAM J. on Math. Analysis, Vol. 49, Issue 5, pp. 3476-3495	2017
16.	A. (Arusoaie) Bucur	Spatial Behavior in Linear Theory of Thermoelastic Materials with a Double Porosity Structure	Journal of Thermal Stresses (accepted) DOI 10.1080/01495739.2017.1387882	2017
ARTICOLE ALTE BAZE DE DATE				
1	A. Celletti, C. Gales	A study of the lunisolar secular resonance $\dot{\omega} + \dot{\Omega} = 0$	Frontiers in Astronomy and Space Sciences - Fundamental Astronomy, 31 March 2016, (on-line paper) http://dx.doi.org/10.3389/fspas.2016.00011	2016
2	A. (Arusoaie) Bucur	Existence and Uniqueness in the Linear Theory of Thermoviscoelastic Materials with Voids	in print Annals of the University of Bucharest (mathematical series)	2017
CARTI				

1	-			
DOCUMENTATIE TEHNICA, BREVETE				
1	-			
COMUNICARI STIINTIFICE NATIONALE				
1	-			
COMUNICARI STIINTIFICE INTERNATIONALE				
	I.D. Ghiba	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, March 7-11	2016
2.	I.D. Ghiba	On some Hencky-type energies	XIII-eme Colloque Franco-Roumain de Mathematiques Applieques, Iasi, August 25-29	2016
3.	C. Gales	A study of the lunisolar secular resonances for space debris by using the Hamiltonian formalism	Computational perturbative methods for Hamiltonian systems - Applications in physics and astronomy Athens, June 11-July 13	2016
4.	C. Gales	Resonance effects in the dynamics of space debris	XIII-eme Colloque Franco-Roumain de Mathematiques Applieques, Iasi, August 25-29	2016
5.	C. Gales	Dynamics of resonances in the space debris problem	Final Stardust Conference, ESA ESTEC, Leiden (The Netherlands), October 31- November 4	2016
6.	C. Burtea	New long time existence results for a class of Boussinesq-type systems	XIII-eme Colloque Franco-Roumain de Mathematiques Applieques, Iasi, August 25-29	2016
7.	A. Bucur	Rayleigh surface waves problem in thermoviscoelastic medium with voids	11th International Congress on Thermal Stresses 2016 (TS 2016), Salerno, Italy, June 5-9	2016
8.	A. Bucur	Spatial behavior in linear theory of thermoviscoelasticity backward in time for porous media	XIII-eme Colloque Franco-Roumain de Mathematiques Applieques, Iasi, August 25-29	2016
9.	C. Gales	Dissipative effects in the space debris problem	9th Humboldt Colloquium on Celestial Mechanics, March 19-25, 2017, Bad Hofgastein (Austria)	2017
10.	C. Gales	Resonance effects within LEO, MEO and GEO regions	The Seventh International Meeting on Celestial Mechanics (CELMEC VII), September 3-9, 2017, San Martino al Cimino (VT), Italy	2017
11.	I.D. Ghiba	A non-rank-one convexity result involving geodesically motivated logarithmic strain measures	ISDMM, 26-29 June, Lyon, Franta	2017
ATLASE, DICTIONARE DE SPECIALITATE				
1	-			
ALTE PUBLICATII				
1	A. Madeo, P. Neff, G.	A review on wave propagation modeling in band-gap	in F. dell'Isola, M. Sofonea and D. Steigmann (eds), Mathematical Modelling	2017

	Barbagallo, M.V. D'Agostino, I.D. Ghiba	metamaterials via enriched continuum models	in Solid Mechanics, Volume 69 of the series Advanced Structured Materials, pp. 89-105, Springer, 2017	
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Lista achizițiilor realizate în cadrul proiectului

Denumire echipament	Categorie de achiziții* (numai mijloace fixe)	Valoarea (lei)	Locație
Laptop Apple Macbook	1	6.238,34	UAIC
Apple Mouse	1	374,85	UAIC
Adaptor Apple	1	148,75	UAIC
Apple Keyboard	1	487,90	UAIC
Laptop Lenovo	1	1.499,00	UAIC
Laptop Apple MacBook Pro 15 Retina	1	11.847,00	UAIC
Laptop Apple MacBook Pro 15 Retina	1	11.847,00	UAIC
Tableta Apple iPad Air 2	1	2.826,00	UAIC
2xApple Magic Keyboard MLA22Z/a	1	947,90	UAIC
2xApple Magic Mouse 2 MLA022ZM/a	1	712,08	UAIC
2xApple USB Ethernet Adaptor MC704ZM/a	1	233,04	UAIC
2xApple Mini Display Port to VGA Adaptor MB572z/b	1	275,64	UAIC
Laptop Lenovo B50- 80	1	1.830,00	UAIC

Categorie de achiziții*

1. Echipamente și aparatură de cercetare
2. Rețele de comunicații specializate
3. Baze de date și informații de specialitate
4. Echipamente și mijloace moderne de documentare și comunicare
5. Alte categorii

**Director proiect,
Dr. Ionel-Dumitrel GHIBA**



