



Europass Curriculum Vitae



Personal information

First name(s) / Surname(s) **Chiroiu, Veturia**
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E-mail veturiachiroiu@yahoo.com
Nationality romanian
Date of birth 27.11.1942
Gender female

Occupational field Scientific Research - Ph. D. Mathematics, Senior Researcher

Work experience

Dates	1966-1969
Occupation or position held	Assistant Researcher
Main activities and responsibilities	Mechanics of Deformable Media. Optimum design. Vibrations.
Name and address of employer	Institute <i>Traian Vuia</i> , Romanian Academy
Dates	1969-1977
Occupation or position held	Researcher
Main activities and responsibilities	Nonlocal Theories of Deformable Media. Dynamical Structures. Optimization. Biomechanics.
Name and address of employer	Institute <i>Traian Vuia</i> , Romanian Academy
Dates	1977-1992
Occupation or position held	Senior Researcher (CS III)
Main activities and responsibilities	Characterization of materials. Vibration and waves. Acoustics. Smart materials. Control and Optimization.
Name and address of employer	Center of Solid Mechanics, Institute of Physics and Technology of Materials (ICEFIZ)
Dates	1992-1994
Occupation or position held	Senior Researcher (CS II)
Main activities and responsibilities	Smart Materials and Structures. Sonic composites. Sonoelasticity. Acoustics. Optimum Design. Control of Vibrations and Waves. Biomechanics, Robotics.
Name and address of employer	Institute of Solid Mechanics, Romanian Academy
Dates	1994-present
Occupation or position held	Senior Researcher (CS I)
Main activities and responsibilities	Nanomechanics. Biomechanics. Control of sound and noise. Multiscale modeling of acoustic invisibility. Control of Vibrations and Waves, Biomechanics, Robotics. Contact/ impact modeling and control.
Name and address of employer	Institute of Solid Mechanics, Romanian Academy (www.imsar.ro)

Education and training

Dates	1961-1966
Title of qualification awarded	MSc in Mathematics
Name and type of organisation providing education and training	University of Bucharest, Faculty of Mathematics, Department of Solid Mechanics, Bucharest, Romania
Dates	1972-1973
Title of qualification awarded	Advanced Studies in Nonlocality
Name and type of organisation providing education and training	Fulbright Fellowship, Princeton University, Department of Aerospace and Mechanical Science, USA
Dates	1969-1980
Title of qualification awarded	PhD in Mathematics
Name and type of organisation providing education and training	University of Bucharest, Faculty of Mathematics, Department of Solid Mechanics, Bucharest, Romania

Personal skills and competences

Mother tongue(s) romanian

Other language(s) **English**

Self-assessment
European level ()*

English

Understanding		Speaking		Writing			
Listening		Reading		Spoken interaction		Spoken production	
	C2		C2		C2		C1

(*) [Common European Framework of Reference for Languages](#)

Publications

Short description:

Books: 7 (Publishing House of the Romanian Academy).

Co-edited Books: 10 (Publishing House of the Romanian Academy).

Chapters in Books: 18 (Beniham Science Publishers Ltd, Publishing House of the Romanian Academy).

ISI Journals: 39 (Smart Materials and Structures, New Journal of Physics; Mechanical Systems and Signal Processing; European Journal of Mechanics-A/Solids; CMC: Computers, Materials & Continua; Mechanics Research Communications; Mechanics Research Communications; International Journal of Heat and Mass Transfer; Physiological Measurement, Institute of Physics Publishing; Inverse Problems, Institute of Physics Publishing; Acoustics Journal of the Acoustical Society of America; Proceedings of the Romanian Academy, Series A: Mathematics, Physics, Technical Sciences, Information Science).

Other papers: 237 (World Journal of Mechanics; Computer and Experimental Simulations in Engineering and Science-CESES; Transactions on Mathematics; Acta Tehnica Napocensis, series Mechanical Engineering. Materials Science; International Review of Mechanical Engineering-IREME; AMSE: Modelling, Measurement and Control, Series B: Mechanics and Thermics, PVP:Natural Hazard Phenomena and Mitigation; Anales of the Universityi Eftimie Murgu Reșița, Theta Series in Advanced Mathematics; Scientific Bulletin of the University of Pitesti, series Applied Mechanics, Proceedings of the Institute of Solid Mechanics, and so on).

Conference Proceedings: 109

See Annex 3. Selected list of publications

Miscellanea	<p>Supervisor of 20 PhD students in Engineering Sciences, Mechanical Engineering (11 successfully completed the PhD, 2 in progress and 6 excluded).</p> <p>Supervisor of 2 Postdoctoral researchers (Postdoc Project CEEEX 1531/2006, code 1/2005 - <i>Postdoctoral program for developing of new coupled atomistic-continuum theories with applications to nanocontacts and indentation modelling</i>) 2006-2008.</p> <p>Co-editor of 9 books in Publishing House of the Romanian Academy.</p> <p>Scientific Consultant- Naval Research Lab. 2003-2004 (with prof. P.P.Delsanto, Politecnico di Torino, Dipartimento di Fisica).</p> <p>Hirsch index 6 according to Web of Science.</p> <p>Total number of citations, according to Web of Science: 164</p> <p>Address of the researcherid.com profile: http://www.researcherid.com/rid/A-7174-2008 ResearcherID: A-7174-2008 http://www.cercetatori-romani.ro/on-line_intro_CEEEX.php https://www.brainmap.ro/veturia-chiroiu https://orcid.org/0000-0002-1086-8634</p> <p>Referee for journals: New Journal of Physics, Journal of Acoustical Society of America; Mechanics Research Communication; CMES: Computer Modeling Engineering & Sciences; CMC: Computers, Materials & Continua; Physiological Measurement; Inverse Problems; Computer Methods in Applied Mechanics and Engineering; Soft Nanoscience Letters (SNL) Scientific Research Publishing; World Journal of Mechanics (WJM), Scientific Research Publishing; International Journal for Numerical Methods in Engineering; Computers and Mathematics with Applications; The International Review of Mechanical Engineering, AMSE: Modelling, Measurement and Control, Series B: Mechanics and Thermics.</p>
Awards	<p>Prize <i>Traian Vuia</i> - Romanian Academy (1997).</p> <p>Doctor Honoris Causa, Technical University of Cluj-Napoca (2016)</p>
Patent	<p>Patent Number: RO109783-B1: <i>Vibration transducer for dynamic measurement of thickness of pre-fabricated concrete component</i>; RO109783-B1 Patent Assignee: Institute of Solid Mechanics, Inventors: Luigi Vladareanu, Tudor Sireteanu, Veturia Chiroiu.</p> <p>Patent Number A/00145 : Procedure and 3D printer for making items containing networks of composite materials, Inventors: <u>Brişan Cornel</u>, <u>Bara Mircea</u>, <u>Munteanu Ligia</u>, <u>Chiroiu Veturia</u>, 26 feb. 2015</p>
Managerial Experience	See Annex 1. Managerial Experience
Visibility of Scientific Contributions	See Annex 2. Visibility of Scientific Contributions
Driving licence	yes
Annexes	3

1. Managerial Experience

Managerial Experience (as Principal Investigator)

Program/Project	Period
Project GAR 3718/1995 Romanian Academy, code 16/1995, <i>Characterization of non traditional materials by using simulation wave focusing techniques.</i>	1995
Project GAR 5591/1996 Romanian Academy, code 8/1996, <i>Modelling and visualization of cracks and defects by using Stoneley motion simulation techniques.</i>	1996
Project GAR 2540/1997, code 33/97 Romanian Academy, <i>Genetic algorithms and algebraic reconstruction techniques in defect identification.</i>	1997
Project MCT 3037/1997, <i>Genetic algorithms and algebraic reconstruction techniques in defects identification.</i>	1997
Project GAR .4024/1998 Romanian Academy, code 8/1998, <i>Wavelets analysis in modelling of the supermodulus effect in modulated metallic foils.</i>	1998
Project MCT 4105 GR/1998, <i>Inverse strategies in composites modelling for obtaining new materials with desired properties.</i>	1998-1999
Project ANSTI nr.5208/1999, B3, <i>Optimal configuration of smart structures with applications in aeronautics and machine tools.</i>	1999

Project 6109/2000, ANSTI, <i>Fracture processes in laminated composites with adhesive bonding.</i>	2000
Project 99/2003 and 95/2004 Romanian Academy, code 4/2003, <i>Shape memory alloys with applications to control of vibrations.</i>	2003-2004
Project .40197/2003, CNCSIS, code_CNCSIS 152, <i>On the intelligent control of damping in nanostructures and nanostructured materials with application in mechanics.</i>	2003-2005
Project Copernicus CIPA-CT94-0132, <i>Development of Mathematical Modelling and Computer Simulation Techniques for the Ultrasonic Characterization of Structural Materials</i> , European Community-Politecnico di Torino, Dip. di Fisica.	1995-1998
Research Project 3993/96/UdR-Topo-Pers., INFN-Istituto Nazionale per la Fisica della Materia, Torino, Politecnico di Torino, Dip. di Fisica, <i>The multiscale coupled theories with application in mechanics.</i>	1996
Research Project 35/98/UdR-Topo-Pers., INFN-Istituto Nazionale per la Fisica della Materia, Torino, Politecnico di Torino, Dip. di Fisica, <i>Modelling mechanics at the multiscale.</i>	1998
Project NATO 2000-2002, PST.CLG. 976864/2000, <i>Modelling of Nonlinear Mesoscopic Elastic Materials.</i>	2000-2002
Research Project 23/01/UdR-Topo-Pers., INFN-Istituto Nazionale per la Fisica della Materia, Torino, Politecnico di Torino, Dip. di Fisica, <i>Modelling dynamics at the mesoscopic scale.</i>	2001
Project 2657/2001, Svenska Institutet, Stockholm, <i>Active and passive damping with applications in manufacturing. Theory.</i>	2001-2004
Project nr. 01834/2004, Svenska Institutet, Stockholm, <i>Active and passive damping with applications in manufacturing. Applications.</i>	2004-2006
Project GAR 95/2005-2006, code 3/2005 Romanian Academy, <i>Vibrations of carbon nanotubes with single walls subjected to axial forces, transverse forces and bending moments on elastic medium, with applications to super-strength nanostructured materials.</i>	2005-2006
Project CEEX postdoctoral, 1531/2006, code 1/2005, <i>Postdoctoral program for developing of new coupled atomistic-continuum theories with applications to nanocontacts and indentation modelling.</i>	2006-2008
Project CEEX-partner, 2C32/2006, code_MEC 5632, <i>Mechanical system for coupling of power electrical and thermal sources for ecological autovehicles with hybrid propulsion.</i>	2006-2008
Proiect PN-III-P1-1.2-PCCDI-2017-0221, Programul 1 - Dezvoltarea sistemului național de cercetare-dezvoltare, Subprogramul 1.2. Performanță instituțională. Proiecte de dezvoltare instituțională - Proiecte Complexe realizate în consorții CDI, competiția 2017, contract UEFISCDI nr.59/2018, <i>Abordare inovativa de mare precizie privind tratamentul intraoperator asistat robotic al tumorilor hepatice pe baza diagnosticului integrat imagistic-molecular</i> , Director proiect prof. Doina Pisla UTCN Cluj, Partener IMSAR Proiect 5: <i>Control hibrid logic diferențial destinat sistemului robotic pentru tratamentul intraoperator al tumorilor hepatice nerezecabile</i> , Responsabil proiect V.Chiroiu, Valoare IMSAR 2018: 133400 lei. Adresă pagină web proiect: https://cester.utcluj.ro/improve/home.html	2018-2020

Investigator (Team Member): expert

Program/Project	Period
1. Project Copernicus CIPA-CT94-0132, <i>Development of Mathematical Modelling and Computer Simulation Techniques for the Ultrasonic Characterization of Structural Materials</i> , European Community - Politecnico di Torino, Dipartimento di Fisica.	1995-1998
2. Project GAR 4024/1998 Romanian Academy, code 8/1998, <i>Wavelets analysis in modelling of the supermodulus effect in modulated metallic foils.</i>	1998
3. Project MCT 4105 GR/1998, <i>Inverse strategies in composites modelling for obtaining new materials with desired properties.</i>	1998-1999
4. Project ANSTI 5208/1999, <i>Optimal configuration of smart structures with applications in aeronautics and machine tools.</i>	1999
5. Project 6109/2000, ANSTI, <i>Fracture processes in laminated composites with adhesive bonding.</i>	2000
6. Project NATO 2000-2002, PST.CLG. 976864/2000, <i>Modeling of Nonlinear Mesoscopic Elastic Materials.</i>	2000-2002
7. Projects 99/2003 and 95/2004 Romanian Academy, code 4/2003, <i>Shape memory alloys with applications to control of vibrations.</i>	2003-2004
8. Project 40197/2003, CNCSIS, A1, code_CNCSIS 152/2003, <i>On the intelligent control of damping in nanostructures and nanostructured materials with application in mechanics.</i>	2003-2005
9. Project 2657/2001, Svenska Institutet, Stockholm, <i>Active and passive damping with applications in manufacturing. Theory.</i>	2001-2004
10. Project 01834/2004, Svenska Institutet, Stockholm, <i>Active and passive damping with applications in manufacturing. Applications.</i>	2004-2006
11. Project GAR 95/2005-2006, code 3/2005 Romanian Academy, <i>Vibrations of carbon nanotubes with single walls subjected to axial forces, transverse forces and bending moments on elastic</i>	2005-2006

<i>medium, with applications to super-strength nanostructured materials.</i>	
12. Project CEEEX-partner, X2C32/2006, code MEC 5632, <i>Mechanical system for coupling of power electrical and thermal sources for ecological autovehicles with hybrid propulsion.</i>	2006-2008
13. Project PN-II-PT-PCCA-2011-3.1-0190, Contract 149/2012, <i>Reconfigurable Haptic Interfaces used in Dynamic Contact Reproduction -Theoretical and Experimental Developments</i> , manager dr. hab. Ligia Munteanu, partener Technical University from Cluj-Napoca, prof.dr.ing. Cornel Brisan.	2012-2016
14. Project PNII-ID-PCE-2012-4-0023, Contract 3/2013, <i>Local resonant sonic composites with applications in mechanics</i> , manager dr.hab. Ligia Munteanu	2013-2016
15. Proiect național PN-III-P1-1.2-PCCDI-2017-0086, contract no. 22 PCCDI /2018, <i>“Sisteme robotice autonome pentru managementul deșeurilor în contextul orașului inteligent”</i> (acronim: SIRAMAND), Coordonator: Institutul Național de Cercetare-Dezvoltare pentru Mecatronică și Tehnica Măsurării (INCDMTM, București), Director proiect: M. Mărgăritescu, Partener 1: Universitatea Tehnică din Cluj-Napoca (UTCN, responsabil C. Brisan), Partener 2: IMSAR, Responsabil partener: D. Dumitriu; Valoare pe anul 2018 pentru IMSAR: 197500 lei, Valoare totală IMSAR pentru 2018: 650000 lei; Adresă pagină web proiect: http://www.incdmtm.ro/siramand/	2018-2020
16. Proiect național PN-III-P2-2.1-PED-2016-0412, contract UEFISCDI nr. 50 PED /2017, <i>“Sistem robotic hexapodal cu mobilitate extinsă pentru acționare inteligentă în spații limitate sau medii ostile”</i> (acronim: HEXAGENT), Coordonator: Institutul Național de Cercetare-Dezvoltare pentru Mecatronică și Tehnica Măsurării (INCDMTM, București), Director proiect: M. Mărgăritescu, Partener: IMSAR, Responsabil partener: D. Dumitriu; Valoare pe anul 2018 pentru IMSAR: 25373 lei, Valoare totală IMSAR 2018: 80994 lei; Adresă pagină web proiect: https://incdmtm.ro/proiecte.php?proiectID=76 .	2016-2018
17. Rugina Cristian. Grant proiect PN-II-PT-PCCA- 2013-4-0236, <i>Tehnologie si echipament de înaltă productivitate si precizie pentru micro-electroeroziune asistată de ultrasunete</i> , coordonator proiect UPB, Ghiculescu Daniel, responsabil IMSAR dr. <u>Rugina Cristian</u> , valoare 2016: 38000 lei	2013-2016

2. Visibility of Scientific Contributions

1. **Honorary Member of the Technical Sciences Academy of Romania** since 2004.

3. **Invited talks at:** Politecnico di Torino, Dipartimento di Fisica, every year (1994-2015); Technical University of Braunschweig (2016), University from Lecce, Italy (2015), Friedrich-Alexander Universität (FAU) Erlangen-Nürnberg (2014), Gdansk University of Technology, Faculty of Mechanical Engineering (2009); Centre for Advanced Materials, Faculty of Engineering, The British University of Egypt (2009); Technical University of Moldova (2009); Center of Applied Space Technology and Microgravity (ZARM); University of Bremen (2008); Heraklion University of Crete Heraklion (2008); Pädagogische Akademie des Bundes in Wien (2007); Institute of Thermomechanics, Academy of Sciences of the Czech Republic Prague, every year in the period 1996-2003; Royal Institute of Technology, Department of Solid Mechanics, Stockholm (1999, 2004-2006); Chalmers University, Göteborg (1995).

3. **Memberships of Professional Organisations:** Gesellschaft fuer Angewandte Mathematik und Mechanik (GAMM), European Mechanics Society (EUROMECH), Romanian Society of Industrial and Applied Mathematics (ROMAI), Romanian Acoustical Society (SRA), New York Academy of Sciences.

4. **Member of Editorial Advisory Board:** Computer and Experimental Simulations in Engineering and Science (CESES); Soft Nanoscience Letters (SNL) Scientific Research Publishing Paseo Segovia, Irvine; Revue Roumaine des Sciences Techniques, série de Mécanique Appliquée; Scientific Bulletin, Applied Mechanics, University of Pitești.

5. **Doctor Honoris Causa** Technical University of Cluj-Napoca 2016

3. List of Publications

Books

1. V.Moșneguțu, V.Chiroiu, 2013. *Introduction to mathematical modeling of the knee joint*, Publishing House of the Romanian Academy (in Romanian).
2. N.D.Stanescu, L.Munteanu, V.Chiroiu, N.Pandrea, 2011. *Dynamical Systems. Theory and Applications*, vol.2, Publishing House of the Romanian Academy (in Romanian).
3. N.D.Stanescu, L.Munteanu, V.Chiroiu, N. Pandrea, 2007. *Dynamical Systems. Theory and Applications*, vol.1, Publishing House of the Romanian Academy, 489 pages (in Romanian).
4. V.Chiroiu, P.Stiuca, L.Munteanu, St.Donescu, 2005. *Introduction to Nanomechanics*, 300 pages, Publishing House of the Romanian Academy (in Romanian).
5. M.Mihăilescu, V.Chiroiu, 2004. *Advanced mechanics on shells and intelligent structures*, Publishing House of the Romanian Academy.
6. V.Chiroiu, C.Chiroiu, 2003. *Inverse problems in mechanics*, Publishing House of the Romanian Academy (in Romanian).
7. H.Popescu, V.Chiroiu, 1981. *Optimum design*, Publishing House of the Romanian Academy (in Romanian).

Co-editor Books

1. *Inverse Problems and Computational Mechanics*, 2016. vol.2, Publishing House of the Romanian Academy.
2. *Inverse Problems and Computational Mechanics*, 2011. vol.1, Publishing House of the Romanian Academy.
3. *Research Trends in Mechanics*, 2010. vol.4, Publishing House of the Romanian Academy.
4. *Research Trends in Mechanics*, 2009. vol.3, Publishing House of the Romanian Academy.
5. *Research Trends in Mechanics*, 2008. vol.2, Publishing House of the Romanian Academy.
6. *Research Trends in Mechanics*, 2007. vol.1, Publishing House of the Romanian Academy.
7. *Topics in Applied mechanics*, 2006. vol.3, Publishing House of the Romanian Academy
8. *Proceedings of the Annual Symposium of the Institute of Solid Mechanics*, 2006. Publishing House of the Romanian Academy.
9. *Topics in Applied mechanics*, 2004. vol.2, Publishing House of the Romanian Academy.
10. *Topics in Applied mechanics*, 2003. vol.1, Publishing House of the Romanian Academy.

Chapters in books

1. L.Munteanu, V.Chiroiu, T.Sireteanu, R.Ioan, 2016. *Sonic multilayer composite films*, Inverse Problems and Computational Mechanics, vol.2, Publishing House of the Romanian Academy.
2. M.Ionescu, T.Sireteanu, V.Chiroiu, P.P.Teodorescu, 2011. *An inverse problem associated with the Bouc-Wen model*, Inverse Problems and Computational Mechanics, vol.1, 147-160, Publishing House of the Romanian Academy.
3. V.Mosnegutu, R. Ioan, V.Chiroiu, 2011. *Two inverse problems for the human knee*, Inverse Problems and Computational Mechanics, vol.1, 241-258, Publishing House of the Romanian Academy.
4. V.Chiroiu, L.Munteanu, V.P.Paun, 2010. *On the paddle resonator*. Series in Micro and Nanoengineering, Nanostructuring and Nanocharacterization, vol.16, 83-97, Publishing House of the Romanian Academy.
5. L.Munteanu, V.Chiroiu, P.P.Teodorescu, 2010. *Nanobeams with damping elements*, Series in Micro and Nanoengineering, Nanostructuring and Nanocharacterization, vol.16, 241-256, Publishing House of the Romanian Academy.
6. A.Toader, T.Sireteanu, V.Chiroiu, D.Dumitriu, 2010. *Decentralized control of large scale systems*, Research Trends in Mechanics, vol. 4, Publishing House of the Romanian Academy, 340-368.
7. A.M.Mitu, D.Baldovin, V.Chiroiu, 2010. *On the sonic nanocomposites*, Research Trends in Mechanics, vol 4, Publishing House of the Romanian Academy, 163-178.
8. V.Chiroiu, D.Dumitriu, A.M. Mitu, D.Baldovin, C.Secară, 2009. *On the damage in nonlinear mesoscopic materials*, Proceedings of the European Computing Conference, Lecture Notes in Electrical Engineering 28, vol.2, 421-426, Springer-Verlag.
9. D.Popa, L.Solomon, V.Chiroiu, N.-D.Stănescu, C.Secară, 2009. *On the uniaxial deformation of nonhomogeneous materials*, Research Trends in Mechanics, vol.3, 320-334, Publishing House of the Romanian Academy.
10. L.Munteanu, D. Dumitriu, Șt. Donescu, V.Chiroiu, 2009. *On the complexity of the auxetic systems*, Proc.of the European Computing Conference, Lecture Notes in Electrical Engineering nr.28, vol.2, 1543-1549, Springer-Verlag.
11. V.Chiroiu, L.Munteanu, V.P.Paun, P.P.Teodorescu, 2009. *On the bending and torsion of carbon nanotubes ropes* New Applications of Micro-and Nanotechnologies, Series of Micro and Nanoengineering, vol.14, 26-44, Publishing House of the Romanian Academy.
12. C.Secară, D.Popa, N.D.Stănescu, V.Chiroiu, C.Chiroiu, 2008. *On the control of chaos with applications to multibody dynamics*, Research Trends in Mechanics, vol.2, 311-324, Publishing House of the Romanian Academy.
13. D.Baldovin, D.Dumitriu, V.Chiroiu, L.Solomon, 2008. *On the elastic-plastic contact modeling*, Research Trends in Mechanics, vol.2, 9-32, Publishing House of the Romanian Academy.
14. V.Chiroiu, D.Dumitriu, L.Solomon, 2007. *On the nonlocal modeling of nanoindentation and nanocontacts*, in Research Trends in Mechanics, vol.1, 33-54, Publishing House of the Romanian Academy.
15. V.Chiroiu, M.Mihăilescu, L.Munteanu, 2006. *Applications of smart materials in engineering*, in Advanced Engineering in Applied Mechanics.
16. V.Chiroiu, L.Munteanu, P.Știucă, 2005. *On the modeling of nanostructured materials*, Topics in Applied Mechanics, vol.3, 31-56, Publishing House of the Romanian Academy.
17. P.Știucă, V.Chiroiu, C.M.Nicolescu, 2004. *On the mechanical behavior of nanostructured materials*, Topics in Applied Mechanics, vol.2, Publishing House of the Romanian Academy, 355-391.
18. V.Chiroiu, 2003. *Identification and inverse problems related to material properties and behavior*, Topics in Applied Mechanics, vol.1, Publishing House of the Romanian Academy.

ISI Journals

1. V.Chiroiu, C.Brișan, D.Dumitriu, L.Munteanu, *A sonification algorithm for developing the offroad models for driving simulators*, Mechanical Systems and Signal Processing, vol. 98, January 2018, 310-323, 2018, ISSN: 0888-3270

<https://doi.org/10.1016/j.ymsp.2017.05.002><http://www.sciencedirect.com/science/article/pii/S0888327017302479> factor influenza IF (2016) 2,771, scor de influenza (2016) RIS 2,788

2. V.Chiroiu, L.Munteanu, C.Rugină, *On the control of a cooperatively robotic system by using a hybrid logic algorithm*, Proceedings of the Romanian Academy, series A: Mathematics, Physics, technical Sciences, Information Science, vol.19, no.4, 589-596, 2018, ISSN: 1454-9069, FI (2017/2018) 1,752.
http://www.academiaromana.ro/sectii2002/proceedings/proc_pag_ln.htm
3. V.Chiroiu, I.Girip, R.Ilie, *Acoustical Wave Propagation in Sonic Composites*, Journal of Vibration, Engineering & Technologies, Special issue SysStruc June 2017, pp.217-222, ISSN 2321-3558 . ISSN 2321-3558 http://old.uefiscdi.ro/userfiles/file/CENAPOSS/FRI_2016.pdf
[http://www.tvi-in.com/IF\(2016\)0,098](http://www.tvi-in.com/IF(2016)0,098), RIS (2016) 0,018.
4. L. Munteanu, V. Moşneguţu, V. Chiroiu, R. Ilie, *The cnoidal method with application to sonic composites*, Scientific Bulletin, University Politehnica from Bucharest, series A, vol.77, iss.3, 271-284, 2015, ISSN 1223-7027, IF (2014/2015) 0,405.
5. L. Ilea, L. Munteanu, D. Dumitriu, M. Dudescu, C. Brişan, V. Chiroiu, *Aspects of generating 3D surfaces with applications to 3D normal tire/off-road contact*, Proceedings of the Romanian Academy, series A, vol. 16, nr. 4, 531-538, 2015, ISSN 1454-9069 IF (2014/2015) 1.658.
6. V. Chiroiu, M.F. Ionescu, T. Sireteanu, R. Ioan, L. Munteanu, 2015. *On intrinsic time measure in the modeling of cyclic behavior of a Nitinol cubic block*, Smart Materials and Structures, 24(3), 035022 1-11, 2015, ISSN: 0964-1726, IF (2014/2015) 2.502, RIS 1,793.
7. L. Munteanu, V. Chiroiu, C. Brişan, D. Dumitriu, T. Sireteanu, S. Petre, 2015. *On the 3D normal tire/off-road vibro-contact problem with friction*, Mechanical Systems and Signal Processing, 54-55, pp.377-393, 2015, ISSN: 0888-3270, IF 2,465 (pe 2013/2014) RIS 2,598.
8. L. Munteanu, D. Dumitriu, V. Chiroiu, C. Brişan, M. Bara, D.Marin, 2015. *On the tactile sensing based on the smart materials*, CMC: Computers, Materials & Continua, vol.46, nr.2, pp.79-103, ISSN 1546-2218, IF (2014/2015) 0,964, RIS 0,911.
9. L. Munteanu, V. Chiroiu, T. Sireteanu, D. Dumitriu, 2015. *A multilayer sonic film*, Journal of Applied Physics, 118, 165302, 2015, ISSN 0021-8979, IF (2015/2015) 2,183, RIS 1,654.
10. L. Munteanu, V. Moşneguţu, V. Chiroiu, R. Ilie, 2015. *The cnoidal method with application to sonic composites*, Scientific Bulletin, University Politehnica from Bucharest, series A, vol.77, iss.3, 271-284, 2015, ISSN 1223-7027, IF (2014/2015) 0,405.
11. L. Munteanu, D. Dumitriu, V. Chiroiu, C. Brişan, M. Bara, D.Marin, 2015. *On the tactile sensing based on the smart materials*, CMC: Computers, Materials & Continua, vol.46, nr.2, pp.79-103, ISSN 1546-2218, IF (2014/2015) 0,964, RIS 0,911.
12. L. Munteanu, V. Chiroiu, T. Sireteanu, D. Dumitriu, 2015. *A multilayer sonic film*, Journal of Applied Physics, 118, 165302, 2015, ISSN 0021-8979, IF (2015/2015) 2,183, RIS 1,654.
13. L. Munteanu, V. Moşneguţu, V. Chiroiu, R. Ilie, 2015. *The cnoidal method with application to sonic composites*, Scientific Bulletin, University Politehnica from Bucharest, series A, vol.77, iss.3, 271-284, 2015, ISSN 1223-7027, IF (2014/2015) 0,405.
14. L. Munteanu, V. Chiroiu, Şt. Donescu, C. Brişan, 2014. *A new class of sonic composites*, Journal of Applied Physics, 115, 104904, 2014, ISSN 0021-8979 IF 2,185 (pe 2013/2014) RIS 1,654
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