

RAPORT IMS 2018 – LUCRĂRI ȘTIINȚIFICE

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8. **Lucian Căpitanu**, Liliana - Laura Bădiță, **Constantin Tigăneșteanu**, Virgil Florescu, **Liviu Florin Isvoranu**. A Great Technical Tamping Which Was Considered A Promoting Discovery. Micro - Texturing Of The Surface Of The Prosthetic Femoral Head To Reduce Friction And Wear. Tribological Journal BULTRIB Vol. 7, 2018 Papers from the 13th International Conference BULTRIB '18 25-27 October 2018, Sofia, Bulgaria
9. **Lucian Căpitanu**, Liliana - Laura Bădiță, **Constantin Tigăneșteanu**, Virgil Florescu, **Liviu Florin Isvoranu**. The Trunion Fretting And Wear Of The Stem Of Total Hip Prosthesis And Its Influence On The Prosthesis Stability. Tribological Journal BULTRIB Vol. 7, 2018 Papers from the 13th International Conference BULTRIB '18, 25-27 October 2018, Sofia, Bulgaria
10. **Ionel-Alexandru Gal**, **Luige Vlădăreanu**, Shuang Cang, “ Advanced intelligent robot control interfaces for the virtual reality simulation applied to the induction hardening process”, International Conference on Communication, Management and Information Technology, ICCMIT 2018, Universidad Politecnica de Madrid, Special Session on: “Advanced Intelligent Control Methods in Robotics and Mechatronics”, Organized by: Prof. Luige Vlădăreanu, Prof. Hongbo Wang and Prof. Ibrahim El Emary, Madrid, Spain- April 2-4, 2018.
11. H. Wang, M. Lin, Z. Jin, X. Wang, J. Niu, H. Yu, L. Zhang, **L. Vlădăreanu**, „Virtual reality training system based on lower limb rehabilitation robot”, International Conference on Communication, Management and Information Technology, ICCMIT 2018, Universidad Politecnica de Madrid, Special Session on: “Advanced Intelligent Control Methods in Robotics and Mechatronics”, Organized by: Prof. Luige Vlădăreanu, Prof. Hongbo Wang and Prof. Ibrahim El Emary, Madrid, Spain- April 2-4, 2018,
12. G. Groza, **T. Sireteanu**, **A-M. Mitu**, **N. Pop**, E. Mastan, Modelling The Motion Of The Sdof Semi-Active Base Isolation Systems With Controllable Dry Friction Using Piecewise Analytic Functions, The Seventh International Workshop-2018, Constructive Methods For Non-Linear Boundary Value Problems, Dedicated To Professor Miklós Rontó On The Ocassion Of His 75th Birthday, July – 8. July, 2018, Miskolc, Hungary

Conferințe în România

1. **T. Sireteanu**, **Ana-Maria Mitu** and **Gheorghe Ghiță**, *Assessment of damping efficiency for rail vehicle shock absorbers based on acceleration measurements*, Proceedings of The 42th International Conference on “Mechanics of Solids, Acoustics and Vibrations” - ICMSAV 2018, p. 57-64.
2. **Lucian Căpitanu**, Liliana-Laura Bădiță, Virgil Florescu. Preliminary stability of uncemented acetabular liner. Proceedings of ACME, June 7-8, 2018, Iasi, Romania
3. **L.Munteanu**, **R.Ioan**, L. Majercsik, On the computation and control of a robotic surgery hybrid system, The 42th International Conference on “Mechanics of Solids, Acoustics and Vibrations” - ICMSAV 25-26 October, pp.1-6, 2018 Brasov.
4. **V. Chiroiu**, C. Dragne, A.Gliozzi, On the trajectories control of a hybrid robot, The 42th International Conference on “Mechanics of Solids, Acoustics and Vibrations” - ICMSAV 25-26 October, 2018, pp.7-12, Brasov.

5. **C.Rugină**, C.Stirbu, On the coupled sonoelastic-sonification algorithms for capturing hardly detectable details in the images, The 42th International Conference on “Mechanics of Solids, Acoustics and Vibrations” - ICMSAV 25-26 October, 2018, pp. 13-18, Brasov.
6. M.Trif, C.Rad, **V.Chiroiu**, C.Brisan, Aspects concerning the relationship between circular economy and robotics, Academic Days of the Academy of technical Sciences of Romania, Energy and Environment of the 21 st century, 18-19 October, Ploiesti 2018.
7. **R. Ioan**, On dL algorithm for controlling hybrid systems, Annual Conference On Applied Mathematics And Informatics-CAMAI (Conferința Anuală de Matematici Aplicate și Informatică) 2008, 9-10 noiembrie 2018, Facultatea de Inginerie, Informatică și Geografie, Universitatea Spiru Haret.
8. **D. Dumitriu**, M. Ionescu, **O.D. Melinte**, M. Mărgăritescu, Stroke enhancement adapter for electric parallel gripper equipping a mobile x-y-z robotic system, The 42th International Conference on “Mechanics of Solids, Acoustics and Vibrations” – ICMSAV 2018, Brașov, 25-26 Octobrie 2018, pp. 49-52.
9. **Luige Vlădăreanu**, **Victor Vlădăreanu**, **Mihaiela Iiescu**, Vlad Alexandru Grosu, **Mihai Rădulescu**, Inverse, Kinematics using ANFIS applied to NAO Robot Leg, ”, International Conference in the Field of Aerospace, Robotics, Manufacturing Systems, Mechanical Engineering, Bioengineering, Materials Engineering, Renewable Energy and Neurorehabilitation, ICMERA 2018, Bucharest
10. **Mihaiela Iiescu**, **Luige Vlădăreanu**, **Marius Pandelea**, **Doina Marin**, Testing Mechanical Characteristics of Hardened LGS Profile Material, The 2nd International Conference “Experimental Mechanics in Engineering” – eMECH 2018, pp. 43 – 48, Brasov, 2018, ISSN 2457 – 8541, ISSN-L 2457 – 8541
11. **Marius Pandelea**, **Luige Vlădăreanu**, **Mihaiela Iiescu**, Radu Ioan Munteanu, **Mihai Rădulescu**, “Intelligent Advanced Control Strategies for Mobile Autonomous Robots Stability Through Versatile, Intelligent, Portable VIPRO Platform”, The 42th International Conference on “Mechanics of Solids, Acoustics and Vibrations” - ICMSAV 2018, pp.184-189, Brasov, 2018, ISSN 2457 – 8541, ISSN-L 2457 – 8541
12. **Mihaiela Iiescu**, **Luige Vlădăreanu**, Marian Lazar And Ioana Pintilie, “PRINTER for succesive deposition of ultra-thin films with different physical-chemical properties”, International Conference in the Field of Aerospace, Robotics, Manufacturing Systems, Mechanical Engineering, Bioengineering, Materials Engineering, Renewable Energy and Neurorehabilitation, ICMERA 2018, Bucharest
13. **Nicolae Pop**, **Luige Vlădăreanu** and Adrian I. Pop, A mathematical model for inverse optimal control to achieve stabilization and trajectory tracking for mobile robots, International Conference INNOVATIVE IDEAS IN SCIENCE 2018, Technical University of Cluj Napoca, North University Center, Baia Mare on 08 - 09 November 2018, Romania
14. **Dan Dumitriu**, Marius Ionescu, **Octavian Melinte**, Mihai Mărgăritescu, “Stroke enhancement adapter for electric parallel gripper equipping a mobile x-y-z robotic system”, The 42th International Conference on “Mechanics of Solids, Acoustics and Vibrations” – ICMSAV 2018, Brașov, 25-26 Octobrie 2018, pag. 49-52.

Lucrări prezentate la **XXVIIth Annual Symposium of the Institute of Solid Mechanics SISOM 2018 and Session of the Commission of Acoustics**, București, 24-25 Mai 2018.

1. **Adrian Ioan Niculescu**, ½ with two tracks complex car model
2. **Lucian Căpitanu**, Liliana-Laura Bădiță, **Constantin Țigăneșteanu**, Virgil Florescu, **Liviu Florin Isvoranu**. Increasing the wear resistance of hip prosthesis by surface microtexturing of the femoral head.

3. **V.Chiroiu, L.Munteanu, R.Ioan, V.Mosneguțu, I.Girip**, On the dL algorithm for controlling the hybrid systems
4. **V.Chiroiu, L.Munteanu**, P. Știucă, **C. Rugină**, A. Vasilescu, A short review on the behaviour of the self-focusing and self-defocusing materials
5. **D. Dumitriu, O.D. Melinte**, Pontryagin Maximum Principle formulation for trajectory optimization of a 2R planar manipulator
6. **M. Migdalovici, L. Vlădeanu, N. Pop**, Gr. Secrieru, D. Baran, **G. Vlădeanu**, On physical identification of walking robots critical positions
7. Al. Vlădeanu, **M. Migdalovici, G. Vlădeanu**, The establishment of the variation of the motor moments in the case of some kinematic conditions imposed to the leg of a biped robot
8. **Ionel-Alexandru Gal, Luige Vlădeanu**, Hongo Wang, **Marius Pandealea**, Niu Jianye, Decision and control for hybrid fire-fighting robots
9. **Octavian Melinte, Luige Vlădeanu, Ionel-Alexandru Gal, Victor Vlădeanu, Mihaiela Iliescu**, Six-wheel robot real time control applied in VIPRO platform
10. **Marius Pandealea, Luige Vlădeanu, Ionel-Alexandru Gal, Mihaiela Iliescu, Mihai Rădulescu**, Intelligent control strategies of the tele-operated robots applied on disaster and emergency situations
11. **Mihaiela Iliescu, Luige Vlădeanu, Doina Marin, Marius Pandealea**, Customized Mechatronic System For Induction Hardening of Lgs Profiles
12. **Doina Marin, Mihaiela Iliescu**, Impact Test Applied To Machine Tool
13. **Mihaela Iliescu, Luige Vlădeanu**, Marian Lazar, **Doina Marin, Marius Pandealea, Octavian Melinte**, Ioana Pintilie, Complex mechatronic system used for obtaining perovskite solar cells
14. **N. Pop, L. Vlădeanu, M. Iliescu**, E. P. Mastan, **M. Pandealea, M. Rădulescu**, Stabilization Of An Underactuated Planar Biped Walking Robot
15. **Marcel Migdalovici, Luige Vlădeanu, Nicolae Pop**, Grigore Secrieru, Daniela Baran, **Gabriela Vlădeanu**, On Physical Identification Of Walking Robots Critical Positions
16. Ghiocel Groza, **Tudor Sireteanu, Ana-Maria Mitu, Nicolae Pop**, Modeling The Motion Of The Sdof Semi-Active Base Isolation Systems With Controllable Dry Friction Using Piecewise Analytic Functions
17. Miorita Ungureanu, Ioana Craciun, **Nicolae Pop**, Study For Elevator Cage Position
18. **Octavian Melinte, Luige Vlădeanu, Alexandru Gal, Mihaela Iliescu, Victor Vlădeanu**, Deep Learning using Decision Recommendation Systems and Artificial Intelligence for Robot Control in VIPRO Platform
19. **Octavian Melinte**, Nicusor Ogararu, Abigail Pop, NAO robot image processing using convolutional neural networks and QR code reading for information identification and motion control

ALTE LUCRARI

Premii internaționale/naționale, ale Academiei Române obținute de către cercetători (autori, lucrări premiate).
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Luige Vlădeanu – premiu internațional ICCMIT 2018.

Cooperări științifice naționale și internaționale, inclusiv în cadrul proiectelor (cu menționarea numărului proiectului și a partenerilor); vizitatori din străinătate.

1. Proiect de colaborare științifică încheiat în decembrie 2015, pentru o perioadă de patru ani 2016 – 2019, dintre IMSAR și Institutul de Matematică și Informatică al Academiei Republicii Moldova, *Modelarea, simularea și obținerea de soluții din sfera cercetării teoretice și aplicative - soluționarea unor probleme ale dinamicii corpului solid deformabil - cu utilizarea metodelor moderne computaționale și tehnologiilor calculului performant*”, Responsabil de proiect din partea IMSAR, cerc. st. grad I, Dr. mat. **Marcel Migdalovici**
2. Institutul Național de Cercetare-Dezvoltare pentru Mecatronică și Tehnica Măsurării INCDMTM, București (director proiect: M. Mărgăritescu), în cadrul proiectului național PN-III-P2-2.1-PED-2016-0412, contract UEFISCDI nr. 50 PED /2017, “*Sistem robotic hexapodal cu mobilitate extinsă pentru acționare inteligentă în spații limitate sau medii ostile*” (acronim: **HEXAGENT**), Responsabil partener: **D. Dumitriu**; Valoare pe anul 2018 pentru IM-SAR: 25373 lei, Valoare totală IMS-AR 2017 și 2018: 80994 lei; Pagină web proiect: <https://incdmtm.ro/proiecte.php?proiectID=76>
3. Universitatea Tehnică din Cluj-Napoca (prof. Doina Pisla, prof. C.Brisan) în cadrul proiectului UEFISCDI nr 59/2018, *Control hibrid logic diferențial destinat sistemului robotic pentru tratamentul intraoperator al tumorilor hepatice nerezecabile*. Responsabil proiect **V.Chiroiu**.
4. Institutul Național de Cercetare-Dezvoltare pentru Mecatronică și Tehnica Măsurării INCDMTM, București (director proiect: M. Mărgăritescu), și Universitatea Tehnică din Cluj-Napoca (UTCN, responsabil C. Brișan), în cadrul proiectului Proiect național PN-III-P1-1.2-PCCDI-2017-0086, contract no. 22 PCCDI /2018, “*Sisteme robotice autonome pentru managementul deșeurilor în contextul orașului inteligent*” (acronim: **SIRAMAND**), Coordonator: INCDMTM, Partener 1: UTCN, Partener 2: IMSAR, Responsabil partener: **D. Dumitriu**; Valoare pe anul 2018 pentru IMSAR: 197500 lei, Valoare totală IMSAR 2018-2020: 650000 lei; Adresă pagină web proiect: <http://www.incdmtm.ro/siramand/>
5. Phenomenological Universalities as a new tool for experimental and cross-disciplinary research: Sonification, A.Gliozzi, **L.Munteanu**, **V.Chiroiu**, **R. Ioan**, **C. Rugină**, C.Dragne, C.Stirbu, Politecnico di Torino, Dip.di Fisica, 2018-2022.
6. **Luige Vlădăreanu**, coordonator partener proiect “*SMart rObOTs for fire-fIgHting*”, Coordonator:Bournemouth University,United Kingdom, Participants: Institutul De Mecanica Solidelor-Romania, Robotnik Automation SI-Spain, Stimpex SA-Romania, Cedrat Technologies SA-France, Project ID: 734875, European Commission-M.S. Curie H2020-MSCA-RISE-2016.
7. **Luige Vlădăreanu**, coordonator proiect “*Joint Laboratory of Intelligent Rehabilitation Robots*”, Collaborative research agreement between Yanshan University,China and Institute of Solid Mechanics, Romania
8. **Luige Vlădăreanu**, coordonator proiect “*Cercetari privind tehnologia cheie de reabilitare roboti / Research on the key technology of rehabilitation robot*”, KEYT HROB”, *PN-III-P3-3.1-PM-RO-CN-2018-0144*, Cooperare bilaterala Romania-China (IMSAR-FUDAN University).
9. **Luige Vlădăreanu**, Vice-President at the International Conference on Communication, Management and Information Technology, ICCMIT 2018, Universidad Politecnica de Madrid, Spain- April 2-4, 2018
10. **Luige Vlădăreanu**, coordonare echipa IMSAR, **Victor Vlădăreanu**, **Octavian Melinte**, membrii la intalnirea cu Comisia EU si membrii echipei de cercetare UK, Shanghai University, Academia de Stiinte din China, Yanshan University, ROBOTIK – Spania in proiectul H2020, SMOOTH.
11. **Prof. Hongbo Wang**, professor Yanshan University, distins profesor al FUDAN University, vizita in proiectul H2020, SMOOTH.

12. **Luige Vlădăreanu, Mihai Rădulescu**, vizita FUDAN University, in proiect bilateral Romania-China.
13. **Alexandru Gal, Marius Pandelea**, vizita de cooperare 2 luni la YSU si CASIA, proiect H2020, SMOOTH
14. **Octavian Melinte**, vizita cooperare de 2 luni la YSU si CASIA , proiect H2020, SMOOTH
15. **Mihai Rădulescu**, , vizita de cooperare 1 luni la YSU si CASIA, proiect H2020, SMOOTH
16. **Yan Hao, M. Lin**, Yanshan University, vizita in proiectul “*Joint Laboratory of Intelligent Rehabilitation Robots*”

Conferințe (simpozioane)/manifestări științifice organizate de institut
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1. **SISOM 2018 and Symposium of Acoustics**, Organized by Romanian Academy, Institute of Solid Mechanics, Co-organizers: Academy of Technical Sciences, Commission of Acoustics of Romanian Academy, Chair - Prof. Tudor Sireteanu, Acad. Dorel Banabic, Prof. Radu I. Munteanu, Prof. Luige Vlădăreanu, International Chair - Hongnian Yu, Bournemouth University, UK, Florentin Smarandache, University of New Mexico, USA, Co-Chair - Prof. Veturia Chiroiu, Prof. Ioan Magheti, Prof. Doina Frunzăverde, Prof. Adrian Olaru, Prof. Iulian Tabara.
2. **Luige Vlădăreanu**, Chair of the Special Session on: “Advanced Intelligent Control Methods in Robotics and Mechatronics”, Organized at the International Conference on Communication, Management and Information Technology, ICCMIT 2018, Universidad Politecnica de Madrid, Spain- April 2-4, 2018

Granturi/proiecte câștigate în competiții naționale/europene (titlul, director grant/proiect, organismul finanțator, durata grantului/proiectului, valoarea totală /valoarea pentru anul 2018).
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A se vedea ANEXA 4.

Alte rezultate

1. **V.Chiroiu**, Editor- in- Chief, Romanian Journal of Mechanics <http://journals.srmta.ro/index.php/rjm>
2. **V.Chiroiu**, Member Editorial Board of thre Scientific Journal of Politehnica University, seria D - Mechanical Engineering https://www.scientificbulletin.upb.ro/SeriaD_-_Inginerie_Mecanica.php?page=colegiul2
3. **V.Chiroiu**, Member Editorial Board of the Romanian Journal of technical Sciences Applied Mechanics, <https://rjts-am.utcluj.ro/#titleBoards>
4. **L.Munteanu**, Member Editorial Board of the Romania Journal of Mechanics <http://journals.srmta.ro/index.php/rjm/about/editorialTeam>
5. **R. Ioan**, Member Editorial Board of the Romanian Journal of Mechanics <http://journals.srmta.ro/index.php/rjm/about/editorialTeam>
6. **D. Dumitriu**, Scientific editorial secretary of the Romanian Journal of technical Sciences Applied Mechanics, <https://rjts-am.utcluj.ro/#titleBoards>

7. **V. Moșneguțu**, Scientific editorial secretary of the Romanian Journal of technical Sciences Applied Mechanics, <https://rjts-am.utcluj.ro/#titleBoards>
8. Premiere 2018 UEFISCDI articol: **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> IF (2016) 2,771, RIS 2,788.
9. **Luige Vlădăreanu**, **Mihaiela Iliescu**, **Victor Vlădăreanu**, **Alexandru Gal**, **Octavian Melinte**, **Mihai Rădulescu**, **Mădălina Frățilă**, Dotarea Laboratorului de robotica IMSAR cu 3 roboți de reabilitate, în colaborare cu Yanshan University, prin cooperare internațională finanțată de Agenția de cercetare din China. Valoare investitie: 267.731 Euros
10. **Luige Vlădăreanu**, **Mihaiela Iliescu**, **Victor Vlădăreanu**, **Alexandru Gal**, **Octavian Melinte**, **Nicolae Pop**, **Marcel Migdalovici**, **Mihai Rădulescu**, Realizare Robot SMOOTH (parțială), în cadrul proiectului H2020, în colaborare cu BU-UK, universități din China, unități de cercetare din Spania și Franța. Valoare proiect: 513.000 Euro
11. **Luige Vlădăreanu**, **Mihaiela Iliescu**, **Victor Vlădăreanu**, **Alexandru Gal**, **Octavian Melinte**, **Nicolae Pop**, **Marcel Migdalovici**, **Mihai Rădulescu**, Realizare robot de reabilitare KEYT HROB în colaborare cu Fudan University, în cadrul proiectului de colaborare bilaterală Romania-China.
12. **Vlădăreanu L**, Chair, **Mihaiela Iliescu**, Hongho Wang, Co-Chairs – XXVIIth Annual Symposium Of The Institute Of Solid Mechanics Sisom 2018 And Session Of The Comission Of Acoustics, București, 24-25 Mai, 2018, Robotics Session1 (11:00 – 15:40) And Work-Shop On Robotics
13. **Mihaiela Iliescu**, Plenary lecture in International Conference in the Field of Aerospace, Robotics, Manufacturing Systems, Mechanical Engineering, Bioengineering, Materials Engineering, Renewable Energy and Neurorehabilitation, ICMERA 2018, Bucharest
14. **Victor Vlădăreanu**, Plenary lecture in International Conference in the Field of Aerospace, Robotics, Manufacturing Systems, Mechanical Engineering, Bioengineering, Materials Engineering, Renewable Energy and Neurorehabilitation, ICMERA 2018, Bucharest
15. **Nicolae Pop**, Membru in board-ul revistelor Creative Mathematics and Informatics (revista B+) și Carpathian Journal of Mathematics, (rev. ISI)
16. **Luige Vlădăreanu**, IEEE Review Manuscript ID Access-2018-10211, "The Simple Hybrid Support Vector Machine Model for Supporting Wise Decision Making through High-Uncertain Dataset", IEEE Access journal, ISSN 5937-5947 (ISI, IF: 3.244), 2018
17. **Luige Vlădăreanu**, IEEE Review Manuscript ID ROB-REG-18-0247, "Quaternion and Five-segment S-curve's application on Manipulator Motion Planning.", ROBOTICA, (ISI, IF 1.177), 2018
18. **Luige Vlădăreanu**, Elsevier Review Manuscript Ref. No.: MECH-D-18-00038, „Model-free development of control systems for a multi-degree-of-freedom robot”, Mechatronics, (ISI, IF 2,423), 2018
19. **Mihaiela Iliescu**, **Victor Vlădăreanu**, Elsevier Book Proposal Review - review proposal for The Emerging Science of Omics: From Genetic to Social Engineering, authored by Dr. Nawin C. Mishra, Professor of Genetics & Genomics Emeritus, Department of Biological Sciences, University of South Carolina.
20. **Mihaiela Iliescu**, Reviewer for Journal: Robotics and Computer-Integrated Manufacturing, Title: Experimental investigation and modeling of material removal characteristics in robotic belt grinding considering the effects of cut-in and cut-off, Journal: Robotics and Computer-Integrated Manufacturing, Corresponding Author: Corresponding Author: Sijie Yan, Co-authors: Co-authors: Xiaohu Xu, Gaofeng Pan, Dahu Zhu, Han Ding