

FIȘA DE VERIFICARE A ÎNDEPLINIRII STANDARDELOR MINIMALE

Domeniul: INGINERIE MECANICĂ, MECATRONICĂ SI ROBOTICĂ

Candidat Teza Abilitare: Prof.dr.ing. PUSTAN Marius Sorin

Standardele minimale necesare și obligatorii pentru conferirea titlurilor didactice din învățământul superior și a gradelor profesionale de cercetare – dezvoltare conform MONITORUL OFICIAL AL ROMÂNIEI, PARTEA I, Nr. 890 bis/27.XII.2012, Anexa nr. 17 pentru domeniul științific “Inginerie mecanică, mecatronică și robotică”:

| Criteriul CDI | | | Criteriul DID | | | Criteriul RIA | | |
|---|---|----------|--|---------|--|--|---------|----------|
| Indicatori cu contribuție principală (obligatorie) în criteriu | | | | | | | | |
| | Necesar | Realizat | | Necesar | Realizat | | Necesar | Realizat |
| | Rezultate și comunicări publicate ca articole științifice (CDI-ART) | 6 | | 66,25 | Manuale - suport curs, format tipărit sau format electronic (DID-MS) | | 6 | 12,3 |
| Indicatori cu contribuție complementară în criteriu | | | | | | | | |
| a) Brevete de invenție (CDI-BRV) b) Produse, tehnologii și servicii inovative (CDI-PTS) c) Monografiile de specialitate (CDI-MON) | | 45,62 | a) Laboratoare / standuri pentru activități didactice (DID-LAB) b) Platforme informatice educaționale (DID-PIE) | | 4 | Activitate de cercetare – dezvoltare – inovare în cadrul granturilor / proiectelor | | 1,24 |
| TOTAL | 10 | 111,87 | | 10 | 16,3 | | 10 | 42,06 |

Data 21.09.2015

Candidat,
Prof.dr.ing. Marius Sorin PUSTAN

Vizat Școala Doctorală,
Prof.dr.ing.Doina PÎSLĂ
Director adjunct Școala Doctorală Inginerie Mecanică

Prof.dr.ing. Pustan Marius Sorin
Universitatea Tehnica din Cluj-Napoca
Departamentul de Ingineria Sistemelor Mecanice

A) CDI-ART: Rezultate și comunicări publicate ca articole științifice

| Nr. | Autori | Titlu lucrare / revista (conferinta), pagini, tara/localitatea, anul, ISSN | Categorie (ISI/BDI) | Lucrare / Citare | Factor de impact | Punctaj |
|-----|---|--|---------------------|------------------|------------------|---------|
| 1 | Pustan M., Dudescu C., Birleanu C. | (2015) The effect of sensing area position on the mechanical response of mass-detecting cantilever sensor, Microsystems Technologies, Volume 21, Issue 9, 28 April 2015, Pages 1827-1834 | ISI | Lucrare | 0.82 | 0.92 |
| 2 | Pustan M., Dudescu C., Birleanu C. | (2015) Nanomechanical and nanotribological characterization of a MEMS micromembrane supported by two folded hinges, Analog Integrated Circuits and Signal Processing, ISSN: 0925-1030 (Print) 1573-1979 (Online), Volume 82, Issue 3, 2015, Pages 627-635, DOI 10.1007/s10470-014-0482-y | ISI | Lucrare | 0.553 | 0.653 |
| 3 | Voicu R., Pustan M., Birleanu C., Baracu A., Muller R. | (2015) Mechanical and tribological properties of thin films under changes of temperature conditions, Surface and Coatings Technology, doi:10.1016/j.surfcoat.2015.01.026 (in press) | ISI | Lucrare | 2.199 | 2.299 |
| 4 | Rusu F., Pustan M., Birleanu C., Muller R., Voicu R., Baracu A. | (2015) Analysis of the surface effects on adhesion in MEMS structures, J. Applied Surface Science, September 2015 (In Press), doi:10.1016/j.apsusc.2015.09.052 | ISI | Lucrare | 2.538 | 2.638 |
| 5 | Merie V., Pustan M., Birleanu C., Negrea G., Belcin O. | (2015) Substrate Influence on the Mechanical and Tribological Characteristics of Gold Thin Films for MEMS Applications, Advanced Engineering Forum . 2015, Vol. 13, p59-66. 8p | BDI | Lucrare | | 0.1 |
| 6 | Merie V., Pustan M., Negrea G., Birleanu C. | (2015) Research on titanium nitride thin films deposited by reactive magnetron sputtering for MEMS applications, J. Applied Surface Science, doi:10.1016/j.apsusc.2015.07.063 | ISI | Lucrare | 2.538 | 2.638 |
| 7 | Pustan M., Chiorean R., Birleanu C., Dudescu C., | (2015) Reliability design of thermally actuated MEMS switches supported by V -Beams, IEEE Symposium on Design, Test, Integration and Packaging of MEMS/MOEMS (DTIP) 2015, Montpellier, 27-30 April 2015, ISBN 978-1-4799-8627-9 | ISI | Lucrare | | 0.1 |

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| 8 | Baracu A., Voicu R., Muller R., Avram A., Pustan M., Chiorean R., Birleanu C., Dudescu M. | (2015) Design and fabrication of a MEMS chevron-type thermal actuator, Int. Conf. on Nanotechnology and Organic Electronics, AIP Conf. Proc. 1646, 25 (2015); http://dx.doi.org/10.1063/1.4908578 | ISI | Lucrare | | 0.1 |
| 9 | Birleanu C., Pustan M. | (2015) Analysis of the adhesion effect in RF-MEMS switches using atomic force microscope, Analog Integrated Circuits and Signal Processing, ISSN: 0925-1030 (Print) 1573-1979 (Online), Volume 82, Issue 3, 2015, Pages 571-581, DOI 10.1007/s10470- | ISI | Lucrare | 0.553 | 0.653 |
| 10 | Culea E.N., Pascuta P., Pustan M., Tamas-Gavrea D.R., Pop L., Vida- | (2015) Effects of Eu:Ag codoping on structural, magnetic and mechanical properties of lead tellurite glass ceramics, Journal of Non-Crystalline Solids, Volume 408, 15 January 2015, Pages 18–25 | ISI | Lucrare | 1.716 | 1.816 |
| 10.1 | Wu L., Huang Bo., Yang F., Qi Y., Peng S., Zhou Y., Li J. | (2015) Heat-treating temperature dependent 1.53 μm fluorescence enhancement in Er ³⁺ /Yb ³⁺ codoped tellurite glasses containing silver NPs, Materials Letters, Volume 152, 1 August 2015, Pages 220–223 | ISI | Citare | 2.4 | 2.5 |
| 11 | Pustan M., Dudescu C., Birleanu C. | (2014) Reliability Design Based on Experimental Investigations of Paddle MEMS Cantilevers Used in Mass Sensing Applications, Sensor Letters ISSN: 1546-198X (Print): EISSN: 1546-1971 (Online) Copyright © 2000- 2014 American Scientific Publishers. All | ISI | Lucrare | 0.517 | 0.617 |
| 12 | Merie V., Pustan M., Birleanu C., Candea V., Popa C. | (2014) Tribological and micro/nano-structural characterization of some Fe-based sintered composites, International Journal of Materials Research, DOI: 10.3139/146.111084, http://www.hanser-elibrary.com/doi/abs/10.3139/146.111084 | ISI | Lucrare | 0.675 | 0.775 |
| 13 | Pustan M., Birleanu C., Rusu F., Haragas S. | (2014) Dynamic Behavior of MEMS Resonators, Applied Mechanics and Materials Vol. 658 (2014) pp 694-699, (2014) Trans Tech Publications, Switzerland; DOI:10.4028 / www.scientific.net/AMM.658.694 | BDI | Lucrare | | 0.1 |
| 14 | Merie V., Pustan M., Birleanu C., Negrea G. | (2014) The Influence of Substrate on the Mechanical and Tribological Characteristics of MEMS Materials for Space Applications, Applied Mechanics and Materials Vol. 658 (2014) pp 329-334, (2014) Trans Tech Publications, Switzerland; DOI:10.4028/ www.scientific.net/AMM.658.329 | BDI | Lucrare | | 0.1 |
| 15 | Merie V., Pustan M., Birleanu C., Negrea G. | (2014) Nanocharacterization of titanium nitride thin films obtained by reactive magnetron sputtering, NANOSTRUC 2014 International Conference on Structural Nano Composites, 20-21 May, Madrid, Spain, http://www.nanostruc.info/ , http://dx.doi.org/10.6084/m9.figshare.1094067 | ISI | Lucrare | | 0.1 |

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| 16 | Chiorean R., Dudescu M.C., Pustan M., Hardau M. | (2014) V-Beam Thermal Actuator's Performance Analysis Using Digital Image Correlation, Applied Mechanics and Materials Vol. 658 (2014), pp.173-176, (2014) Trans Tech Publications, Switzerland, DOI: 10.4028/www.scientific.net/AMM.658.173 | BDI | Lucrare | 0.1 |
| 17 | Chiorean R., Dudescu M.C., Pustan M., Hardau M. | (2014) Analytical and numerical study on the maximum force developed by a V-beam thermal actuator, 7TH INTERNATIONAL CONFERENCE INTERDISCIPLINARITY IN ENGINEERING (INTER-ENG 2013), Procedia Technology, 12, pp359-363, DOI: 10.1016/j.protcy.2013.12.499 | ISI | Lucrare | 0.1 |
| 18 | Chiorean R., Dudescu M.C., Pustan M., Hardau M. | (2014) Deflection determination of V-beam thermal sensors using Digital Image Correlation, Key Engineering Materials, 601, pp. 41-44 | BDI | Lucrare | 0.1 |
| 19 | Chiorean R., Dudescu M.C., Pustan M., Hardau M. | (2014) Micro-tweezers Based on V-Beam Thermal Actuator, Springer International Publishing, International Conference on Advancements of Medicine and Health Care through Technology; 5th-7th June 2014, Cluj-Napoca, Romania, pp. 159-162 | BDI | Lucrare | 0.1 |
| 20 | Pustan M., Birleanu C., Rusu F., Dudescu C., Belcin O. | (2014) Size effect on the microbridges quality factor tested in free air space, 15th International Conference on Thermal, Mechanical and Multi-Physics Simulation and Experiments in Microelectronics and Microsystems, EuroSimE 2014, Gent, Belgium – April 7-8-9, 2014, 978-1-4799-4790-4/14/\$31.00 ©2014 IEEE | ISI | Lucrare | 0.1 |
| 21 | Pustan M., Dudescu C., Birleanu C. | (2014) Nanomechanical and Nanotribological characterization of a MEMS micromembrane supported by two folded hinges, DTIP, Design, Test, Integration & Packaging of MEMS/MOEMS 01-04 April 2014, Cannes, France, pp. 282-287, ©EDA Publishing/DTIP 2014 ISBN: 978-2-35500-028-7, IEEE Catalog Number: CFP14DTI-PRT | ISI | Lucrare | 0.1 |
| 22 | Birleanu C., Pustan M. | (2014) Analysis of the adhesion effect in RF-MEMS switches using atomic force microscope, DTIP, Design, Test, Integration & Packaging of MEMS/MOEMS 01-04 April 2014, Cannes, France, pp. 146-152, ©EDA Publishing/DTIP 2014 ISBN: 978-2-35500-028-7, IEEE Catalog Number: CFP14DTI-PRT | ISI | Lucrare | 0.1 |
| 23 | Baracu A., Voicu R., Müller R., Avram A, Pustan M., Chiorean R., Birleanu C., Dudescu C. | (2014) Design and fabrication of a MEMS chevron-type thermal actuator, 11 th International Conference on Nanoscience&Nanotechnologies (NN14), 8-11 July 2014, Thessaloniki, Greece, AIP Conference Proceedings Vol.1646, pp.25-30, DOI: 10.1063/1.4908578 | ISI | Lucrare | 0.1 |

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| 24 | Pustan M., Birleanu C., Rusu F., Haragas S . | (2014) Dynamic Behavior of MEMS Resonators, ACME 2014 The 6th International Conference on Advanced Concepts on Mechanical Engineering, 12-13 June, Iasi, Romania, | BDI | Lucrare | | 0.1 |
| 25 | Merie V., Pustan M., Birleanu C., Negrea G. | (2014) Analysis of the substrate effect on the mechanical behavior of MEMS materials for space applications, SMET 2014 European Conference on Spacecraft Structures, Materials & Environmental Testing, 01-04 April 2014, Braunschweig, Germany, https://dlr-fa.meetingmasters.de/packheart/page;jsessionid=44fosscksa57s?pp_page=Veranstaltung.view1 | BDI | Lucrare | | 0.1 |
| 26 | Rusu F., Pustan M., Birleanu C. | (2014) Analysis of the Environmental Conditions on the Dynamic Behavior of MEMS Resonators, The 13 th European Conference on SPACECRAFT, STRUCTURES, MATERIALS& ENVIRONMENTAL TESTING, 1-4 April 2014, Braunschweig, Germany | BDI | Lucrare | | 0.1 |
| 27 | Merie V., Pustan M., Birleanu C., Negrea G. | (2014) The influence of substrate on the mechanical and tribological characteristics of MEMS materials for space applications, ACME 2014 The 6th International Conference on Advanced Concepts on Mechanical Engineering, 12-13 June, Iasi, Romania, http://www.acme.mectuiasi.ro/ | BDI | Lucrare | | 0.1 |
| 28 | Pustan M., Belcin, O., Birleanu, C. | (2013) Mechanical seals with oscillating stator, Meccanica, 48 (5) Print ISSN 0025-6455, On-line ISSN 1572-9648, 1191-1200, DOI: 10.1007/s11012-012-9660-0 | ISI | Lucrare | 1.815 | |
| 28.1 | Qingkai H., Jingyu Z., Meiling W. | (2014) Nonsynchronous vibrations of rotor system induced by oil-block inside the rotating drum, MECCANICA Volume: 49 Issue: 10 Pages: 2335-2357 Published: OCT 2014 | ISI | Citare | 1.815 | 1.915 |
| 28.2 | Jung-Hun S., Kyung- Woong K. | (2014) Effect of surface non-flatness on the lubrication characteristics in the valve part of a swash-plate type axial piston pump, MECCANICA Volume: 49 Issue: 5 Pages: 1275-1295 Published: MAY 2014 | ISI | Citare | 1.815 | 1.915 |
| 29 | Pustan M., Dudescu C., Birleanu C. | (2013) Simulation and experimental analysis of thermo-mechanical behaviour of microresonators under dynamic loading, Microsystem Technologies, 19 (6), ISSN 1432-1858, 915-922, DOI: 10.1007/s00542-012-1728-1 | ISI | Lucrare | 0.952 | 1.052 |
| 30 | Pustan M., Dudescu C., Birleanu C. | (2013) The effect of sensing area position on the mechanical response of mass - detecting cantilever sensor, DTIP, Design, Test, Integration & Packaging of MEMS/MOEMS 16-18 April 2013, Barcelona, Spain, 87-92, ©EDA Publishing/DTIP 2013 ISBN: 978-2-35500-020-1, IEEE Catalog Number: CFP12DTI-PRT, http://cmp.imag.fr/conferences/dtip/dtip2012/documents/DTIP2013_Program.pdf . | ISI | Lucrare | | 0.1 |

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| 32 | Pustan M., Dudescu C., Birleanu C., Rymuza Z. | (2013) Nanomechanical studies and material characterization of metal/polymer bilayer cantilevers MEMS Structures, International Journal of Materials Research, 104 (4), ISSN 1862-5282, 408-414, DOI: 110.3139/146.110879 | ISI | Lucrare | 0.675 | 0.775 |
| 32.1 | Sojoudi H., McKinley G.H., Gleason K.K. | (2015) Linker-free grafting of fluorinated polymeric cross-linked network bilayers for durable reduction of ice adhesion, DOI: 10.1039/C4MH00162A (Communication) Mater. Horiz., 2015, 2, 91-99 | BDI | Citare | | 0.1 |
| 33 | Birleanu C., Pustan M., Belcin O., Calin L. | (2013) Nanomechanical investigation od dentalrestorative materials using atomic force microscopy, The 4 th International Conference "ADVANCED ENGINEERING IN MECHANICAL SYSTEMS", ADEMS'13 – 25-26.10.2013, Cluj-Napoca, Acta Technica Napocensis, Vol.56, Issue IV, seria: Applied Mathematics and Mechanics, ISSN 1221-5872, 607-614, Index Copernicus 2010 - 3.89. | BDI | Lucrare | | 0.1 |
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| 35 | Pustan M., Dudescu C., B | (2013) Micromembranes suported by serial - parallel connected hinges. 6th ECCOMAS Thematic Conference on Smart, Structures and Materials (SMART2013), Session SS6 Smart Micro & Nano Materials & Structures, vol.1220 | BDI | Lucrare | | 0.1 |
| 36 | Pustan M., Dudescu C., Birleanu C. | (2013) Measurement of energy loss coefficient of electrostatically actuated mems resonators, 4th International Conference on Integrity, Reliability and Failure, Funchal, Portugal, 23-27 June 2013, IRF 2013, TRACK_J: NANOTECHNOLOGIES AND NANOMATERIALS paper no. 3921, ISBN: 978-972-8826-27-7, 305-307. | ISI | Lucrare | | 0.1 |
| 37 | Merie M., Pustan M., Birleanu C. | (2013) Nanocharacterization of some Fe - based friction composites, The 4 th International Conference "ADVANCED ENGINEERING IN MECHANICAL SYSTEMS", ADEMS'13 – 25-26.10.2013, Cluj-Napoca, Acta Technica Napocensis, Vol.56, Issue IV, seria: Applied Mathematics and Mechanics, ISSN 1221-5872, 70-714, Index Copernicus 2010 - 3.89.09 | BDI | Lucrare | | 0.1 |

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| 38 | Pustan M., Birleanu C., Dudescu C., Calin L., | (2013) The influence of temperature on mechanical and tribological properties of dental materials, 4th International Conference on Integrity, Reliability and Failure, Funchal, Portugal, 23-27 June 2013, IRF 2013, SYMP_06: INTEGRITY, RELIABILITY AND FAILURE IN DENTAL MATERIALS, paper no. 3923, ISBN: 978-972-8826-27-7, 473 – 475. | ISI | Lucrare | | 0.1 |
| 39 | Pustan M., Birleanu C., Dudescu C., Belcin O. | (2013) Adhesion, Friction and Wear Measurement of Dental Materials using Atomic Force Microscope, ConsEuro, 9 - 11 May, Paris | BDI | Lucrare | | 0.1 |
| 40 | Birleanu C., Pustan M., Dudescu C., Belcin O., Zygmunt R. | (2012) Nanotribological Investigations on Adesion Effect Aplied to MEMS Materials, the 36th International Conference ICMSAV, 25-26 octombrie 2012, Cluj-Napoca, Acta Technica Napocensis, vol.55, Issue III, seria: Applied Mathematics and Mechanics, pp.671-676, ISSN 1221-5872, 2012. Index Copernicus 2010 - 3.89 | BDI | Lucrare | | 0.1 |
| 41 | Pustan M., Birleanu C., Dudescu C. | (2012) Simulation and Experimental Analysis of Thermo-Mechanical Behavior of Microresonators under Dynamic Loading, DTIP, Design, Test, Integration & Packaging of MEMS/MOEMS 25-27 April 2012, Cannes, France, pp 87-92, ©EDA Publishing/DTIP 2012 ISBN: 978-2-35500-020-1, IEEE Catalog Number: CFP12DTI-PRT | ISI | Lucrare | | 0.1 |
| 42 | Pustan M., Birleanu C., Dudescu C. | (2012) Mechanical and tribological characterizations for reliability design of micromembranes, 13th International Conference on Thermal, Mechanical and Multi-Physics Simulation and Experiments in Microelectronics and Mycrosystems, EuroSimE 2012, Cascais,Portugal – April 16-18, paper 132, ISBN 978-1-4673-1511-1, IEEE Catalog Number: CFP12566-CDR | BDI | Lucrare | | 0.1 |
| 43 | Voicu R., Muller R, Pustan M. | (2012) Investigation of dimensions effect on stress of bi-material cantilever beam, 34th International Spring Seminar on Electronics Technology: "New Trends in Micro/Nanotechnology", Copyright 2013 Elsevier B.V., pp.461-465 | BDI | Lucrare | | 0.1 |
| 44 | Pustan M., Birleanu C., Dudescu C., Belcin O., GolINVAL J-C. | (2012) Size effect on the Dynamical Behaviour of Electro Statically Actuated MEMS Resonators, the 36th International Conference ICMSAV, 25-26 octombrie 2012, Cluj-Napoca, Acta Technica Napocensis, Vol.55, Issue III, seria: Applied Mathematics and Mechanics, ISSN 1221-5872, 599-604, Index Copernicus 2010 - 3.89 | BDI | Lucrare | | 0.1 |
| 45 | Pustan M., Muller R., GolINVAL J.C. | (2012) Nanomechanical and nanotribological characterization of microelectromechanical system, Journal of Optoelectronics and Advance Materials, 18, ISSN 1454-4164, 246-250 | ISI | Lucrare | 0.516 | 0.616 |

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| 45.1 | Voicu R., Gavrilă R., Obreja ., Baracu A., Dinescu A., Müller R. | (2015) Design, microfabrication and analysis of polysilicon thin layers for MEMS vibrating structures, Analog Integrated Circuits and Signal Processing, March 2015, Volume 82, Issue 3, pp 611-620 DOI 10.1007/s10470-014-0485-8 | ISI | Citare | 0.401 | 0.501 |
| 45.2 | Voicu R., Obreja C., Gavrilă R., et al. | Investigations of surface properties of SiO ₂ and Si ₃ N ₄ thin layers, used for MEMS vibrating structures applications | ISI | Citare | | 0.1 |
| 46 | Pustan M, Rochus V, Golinval J-C. | (2012) Mechanical and tribological characterization of a thermally actuated MEMS cantilever, Microsystem Technologies, 18 (3), ISSN 1432-1858, 246-250 DOI: 10.1007/s00542-011-1423-7 | ISI | Lucrare | 0.827 | 0.927 |
| 46.1 | Xiuyuan L., Yulong Z., Tengjiang H., Wenju Xu · You Zhao · Yingwei Bai · Wei Ren | (2015) Design of a large displacement thermal actuator with a cascaded V-beam amplification for MEMS safety- and -arming devices, Microsystem Technology, Doi 10.1007/s00542-015-2447-1 | ISI | Citare | 0.952 | 1.052 |
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| 47 | Pustan M. | (2011) Nanomaterial behaviour of a gold microcantilever subjected to plastic deformations, Digest Journal of Nanomaterials and Biostructures, 6, ISSN 1842-3582, 287-292 | ISI | Lucrare | 1.2 | 1.3 |
| 48 | Pustan M, Paquay S, Rochus V, Golinval J-C | (2011) Modeling and finite element analysis of mechanical behavior of flexible MEMS components, Microsystem Technologies, 17 (4), ISSN 1432-1858, 553-562, DOI: 10.1007/s00542-011-1232-z | ISI | Lucrare | 0.931 | 1.031 |
| 49.1 | Gau W.-H., Chen K.-N., Hwang Y.-L | (2013) Dynamic characteristics and finite element model updating of micromachined torsion structures, Applied Mechanics and Materials, Volume 284-287, 2013, Pages 1831-1835 | ISI | Citare | | 0.1 |
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| 49.3 | Sharma J.N., Kaur R. | (2014) Response of anisotropic thermoelastic micro-beam resonators under dynamic loads, Applied Mathematical Modelling, (in press) doi:10.1016/j.apm.2014.11.019 | ISI | Citare | 2.158 | 2.258 |
| 49.4 | Stephany Abarca-Jiménez G., et al. | (2015) Electromechanical modeling and simulation by the Euler–Lagrange method of a MEMS inertial sensor using a FG MOS as a transducer, Microsystem Technologies, Print ISSN 0946-7076, Online ISSN 1432-1858, DOI 10.1007/s00542-015-2429-3 | ISI | Citare | 0.952 | 1.052 |

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| 50 | Wu L., Noel L., Rochus V., Pustan M., Golinval JC | (2011) Micro-Macro Approach to Predict Stiction due to Surface Contact in Micro Electro- Mechanical Systems, IEEE/ASME Journal of Microelectromechanical Systems, 20 (4), ISSN 1057-7157, 976-990-412, DOI: 10.1109/JMEMS.2011.2153823 | ISI | Lucrare | 2.098 | 2.198 |
| 50.1 | Benjamin F. T, Coutu R. Jr, McBride W.J. | (2013) A review of micro-contact physics for microelectromechanical systems (MEMS) metal contact switches, J. Micromech. Microeng. 23 103001 doi:10.1088/0960-1317/23/10/103001 | ISI | Citare | 1.725 | 1.825 |
| 50.2 | Ardito R., Frangi A., Corigliano A. | (2013) Modelling of spontaneous adhesion phenomena in micro-electro-mechanical systems, European Journal of Mechanics - A/Solids, Volume 39, May–June 2013, Pages 144–152 | ISI | Citare | 1.904 | 2.004 |
| 50.3 | Wu L., Golinval JC., Noel L. | (2013) A micro-model for elasto-plastic adhesive–contact in micro-switches: Application to cyclic loading, Tribology International, Volume 57, January 2013, Pages 137–146, DOI doi:10.1016/j.triboint.2012.08.003 | ISI | Citare | 2.151 | 2.251 |
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| 50.6 | Ardito R., Corigliano A., Frangi A., Rizzini F. | (2014) Advanced models for the calculation of capillary attraction in axisymmetric configurations, European Journal of Mechanics - A/Solids, Volume 47, September–October 2014, Pages 298–308, DOI 10.1016/j.euromechsol.2014.05.002 | ISI | Citare | 1.904 | 2.004 |
| 50.7 | Wu L., Golinval JC., Noel L. | (2011) Influence of the elasto-plastic adhesive contact on Micro-Switches, Proceedings of the 5th International Conference on Advanced Computational Methods in Engineering (ACOMEN2011), 14-17 november 2011 | BDI | Citare | | 0.1 |
| 50.8 | Hoang T.V., Wu L., Paquay S., Obreja A.C., Voicu R.Muller R. Golinval J.C., Noels L. | A probabilistic model for predicting the uncertainties of the humid stiction phenomenon on hard materials, Journal of Computational & Applied Mathematics, ISSN 0377-0427 (in Press), DOI : 10.1016/j.cam.2015.02.022 | ISI | Citare | 1.077 | 1.177 |
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| 58 | Pustan M., Golinval J.C., Rochus V. | (2010) Geometrical Effects on the Dynamical Behavior of MEMS structures, IV European Conference on Computational Mechanics, Paris, France, May 16-21, 2010 | BDI | Lucrare | | 0.1 |

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| 91 | Pustan M. | (2002) Considerații privind pierderile de fluid în cazul etanșărilor frontale, Simpozionul național cu participare internațională, PRASIC'02, Brașov | | Lucrare | 0.1 |
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| 94 | Pustan M. | (2003) Etanșare frontală cu alimentare discontinuă. Analiza stabilității statice, A Treia Conferință - cu participare internațională – „Profesorul Dorin Pavel - fondatorul hidroenergeticii românești”, Sebeș, ISBN 973-8130-82-4, 413-418 | | Lucrare | 0.1 |

Total punctaj CDI-ART: 66.252

B) CDI-MON: Monografii de specialitate sau capitole în monografii de specialitate

| Nr. | Autori | Titlu capitol/monografie, editura, tara, localitate, ISBN | An | Editura | Nr.pagini | Punctaj |
|-----|--|---|------|----------------|-----------|---------|
| 1 | Belcin Ovidiu, Birleanu Corina, Pustan Marius | Organe de masini.Elemente de proiectare, Risoprint, Romania, Cluj-Napoca, ISBN 978-973-53-1487-3 | 2015 | Nationala | 585 | 11.7 |
| 2 | Pustan Marius, Birleanu Corina, Dudescu Cristian, Golinval J.-C. | DYNAMICAL BEHAVIOR OF SMART MEMS IN INDUSTRIAL APPLICATIONS, in book Smart sensors and MEMS: Intelligent devices and microsystems for industrial applications, Edited by S Nihtianov and A L Estepa, Woodhead Publishing Series in Electronic and Optical Materials No. 51, ISBN 0 85709 502 1, ISBN-13: 978 0 85709 502 2, | 2014 | Internationala | 25 | 2.5 |
| 3 | Ovidiu Belcin, Corina Birleanu, Marius Pustan | Organe de Masini, Elemente constructive in proiectare, Cluj-Napoca, 2011, Ed. Risoprint Cluj-Napoca, ISBN 978-973-53-0684-7 | 2011 | Nationala | 350 | 7 |
| 4 | Belcin Ovidiu, Pustan Marius | ORGANE DE MAȘINI. CUPLAJE – Probleme rezolvate, Ed. Risoprint, Cluj-Napoca, ISBN 978-973-53-0107-1 | 2009 | Nationala | 145 | 2.9 |
| 5 | Belcin Ovidiu, Pustan Marius | ORGANE DE MAȘINI. ANGRENAJE –Probleme rezolvate. Ed. Risoprint, Cluj-Napoca, ISBN 978-973-751-871-2 | 2008 | Nationala | 145 | 2.9 |
| 6 | Tudose, L., Pop, D., Haragâs, S., Nistor, G., Jucan, D., Pustan, M | PROIECTAREA OPTIMALĂ A SISTEMELOR COMPLEXE, Ed. Mediamira, Cluj-Napoca, ISBN 973-713-076-6 | 2006 | Nationala | 318 | 6.36 |
| 7 | Belcin Ovidiu, Pustan Marius | ORGANE DE MAȘINI. RULMENȚI, FUSURI ȘI PIVOȚI – Probleme rezolvate, Ed. Risoprint, Cluj-Napoca, ISBN 973-751-118-2 | 2006 | Nationala | 125 | 2.5 |
| 8 | Belcin Ovidiu, Pustan Marius | ORGANE DE MAȘINI. OSII ȘI ARBORI DREPTI – Probleme rezolvate, Ed. Risoprint, Cluj-Napoca, ISBN 973-656-971-3 | 2005 | Nationala | 115 | 2.3 |
| 10 | Belcin Ovidiu, Turcu Ioan Pustan Marius | ORGANE DE MAȘINI. ASAMBLĂRI DEMONTABILE – Probleme rezolvate, Ed. Risoprint, Cluj-Napoca, ISBN 973-656-552-1 | 2004 | Nationala | 170 | 3.4 |
| 11 | Pop, D., Tudose, L., Popa, C., Pustan, M., Haragas S. | Reductoare cu două trepte. Calculul angrenajelor , Editura Todesco, ISBN 973-8198-56-9 | 2003 | Nationala | 203 | 4.06 |

Total punctaj CDI-MON: 45.62

C) DID-MSC: Manuale suport curs, format tipărit sau format electronic

| Nr. | Autori | Titlu manual suport curs, editura, tara, localitate, ISBN | An | Nr.pagini | Punctaj |
|-------------------------------|--|---|------|-----------|-------------|
| 1 | Pustan Marius, Belcin Ovidiu, Corina Birleanu | ORGANE DE MAȘINI - Asamblari demontabile, Osii si arbori drepti, Arcuri metalice, Ed. UTPRESS, Cluj-Napoca, ISBN 978-973-662-821-4, 469 pagini. | 2013 | 470 | 9.4 |
| 2 | Pustan Marius, Zygmunt Rymuza | MECHANICAL AND TRIBOLOGICAL CHARACTERIZATION OF MEMS STRUCTURES, Ed.Risoprint, Cluj-Napoca, ISBN 978-973-751-641-1 | 2007 | 145 | 2.9 |
| Total punctaj DID-MSC: | | | | | 12.3 |

D) DID-LAB: Standuri/laboratoare pentru activități didactice realizate sau dezvoltate de candidat, cu lucrări de laborator elaborate de

| Nr. | Autori | Descriere stand/laborator, cu lucrari incluse in indrumator | An | Punctaj |
|-------------------------------|---------------|--|------|----------|
| 1 | Pustan Marius | Studiul experimental al asamblarilor prin strangere proprie / Organe de masini, mecanisme si tribologie. Studii de caz. Ed. Toderco, Cluj-Napoca 2008, ISBN 978-973-7695-65-9 | 2008 | 1 |
| 2 | Pustan Marius | Tribologie. Analiza lubrifierii elastohidrodinamice prin metode optice / Organe de masini, mecanisme si tribologie. Studii de caz. Ed. Toderco, Cluj-Napoca 2008, ISBN 978-973-7695-65-9 | 2008 | 1 |
| 3 | Pustan Marius | Cuple cinematice si reprezentarea structurala a mecanismelor cu bare / Mecanisme si organe de masini. Lucrari de laborator. Editura Toderco, Cluj-Napoca 2004, ISBN 973-8198-83-6 | 2008 | 1 |
| 4 | Pustan Marius | Studiul structural al mecanismelor plane / Mecanisme si organe de masini. Lucrari de laborator. Editura Toderco, Cluj-Napoca 2004, ISBN 973-8198-83-6 | 2008 | 1 |
| Total punctaj DID-LAB: | | | | 4 |

E) RIA-GRA: Director sau responsabil partener, grant internațional / national

| Nr. | Candidat | Denumire/descriere grant | Grant / Contract | national/ internation al | Suma incasata | Punctaj |
|---|---------------|---|------------------|--------------------------------|----------------|---------|
| 1 | Pustan Marius | Proiectul tip: PN-II-RU-TE-2011-3-0106 / 2011-2014 - Nanomechanical and nanotribological characterizations for reliability design of MEMS resonators, | Grant | National | 909450 | 18.189 |
| 2 | Pustan Marius | Programul de Cercetare-Dezvoltare-Inovare pentru Tehnologie Spațială și Cercetare Avansată – Proiect STAR nr. 32/19.11.2012, perioada 2012-2015, Reliability design of RF-MEMS switches for space applications | Grant | National | 410400 | 8.208 |
| 3 | Pustan Marius | Proiectul din Programul : FP7 – ERA.NET- 2012 – 2015 - Modelare 3D pentru proiectarea robustica a microsenzorilor de vibratie (3SMVIB), | Grant | Internation al | 110000 | 11 |
| 4 | Pustan Marius | Proiectul National de cercatare PNII -Parteneriate nr. 72-2012/2008, Microsisteme avansate bazate pe microconsole realizate cu tehnici MEMS. | Grant | National | 55000 | 1.1 |
| 5 | Pustan Marius | Proiectul National de Cercetare nr. 547/ 2002 AT, Tema nr.24, Cod CNCISIS 547 Etanșări frontale cu impulsuri, Universitatea Tehnica din Cluj-Napoca, Romania | Grant | National | 55000 | 1.1 |
| 6 | Pustan Marius | Proiectul National de Cercetare nr. 33532/ 2003 AT, Tema nr.14, Cod CNCISIS 156 Instalație pilot pentru studiul experimental al etanșărilor frontale cu impulsuri, Universitatea Tehnica din Cluj-Napoca, Romania | Grant | National | 36000 | 0.72 |
| 7 | Pustan Marius | International Exploratory Workshop “Nanomechanics and nanotribology for reliability design of micro and nano systems” CNCS-UEFISCDI Project number PN II-ID-WE-2012-4-063/2012 | Grant | National | 25580 | 0.5116 |
| Total punctaj RIA-GRA, CTR - Director: | | | | | 40.8286 | |

F) RIA-GRA: Membru in echipa, grant internațional / national

| Nr. | Candidat | Denumire/descriere grant | Grant / Contract | national/ international | Suma incasata | Punctaj |
|---|---------------|---|------------------|----------------------------|---------------|----------------|
| 1 | Pustan Marius | Programul de Cercetare-Dezvoltare-Inovare pentru Tehnologie Spațială și Cercetare Avansată – Proiect STAR nr. 97/09.12.2013, perioada 2013-2016, Tribomechanical Characterization of MEMS Materials for Space Applications under harsh environments | Grant | National | 168000 | 0.84 |
| 2 | Pustan Marius | Proiectul National de Cercetare CNCSIS nr.2783/2006, Tema A15, Cod CNCSIS 1286, Proiectarea optimală multiobiectiv a sistemelor mecanice complexe. | Grant | National | 48000 | 0.24 |
| 3 | Pustan Marius | Proiectul National de Cercetare CNCSIS nr.33385/2004, Tema A32, Cod CNCSIS 896, Faza I si Faza II, Cercetari teoretice si experimentale asupra emulsiilor, utilizate ca si lubrifianti in cuplele de frecare | Grant | National | 16380 | 0.0819 |
| 4 | Pustan Marius | Proiectul National de Cercetare CNCSIS nr.33385/2004, Tema A66, Cod CNCSIS 417, Proiectarea optimala cu algoritmi genetici a sistemelor eterogene in corelatie cu sistemele de fabricatie si de desfacere | Grant | National | 12024 | 0.06012 |
| 5 | Pustan Marius | Proiectul National de Cercetare CNCSIS nr. 34970/2001, Tema A32, Cod CNCSIS, Centru de Cercetare si Proiectare Optimala. | Grant | National | 4000 | 0.02 |
| Total punctaj RIA-GRA, CTR - Membru: | | | | | | 1.24202 |

Data:
20/09/2015

Prof. Dr. Ing. Marius PUSTAN