



ACADEMIA ROMÂNĂ
SCOSAAR

AVIZAT

PREȘEDINTE SCOSAAR

Bogdan C. Simionescu
Acad. Bogdan C. SIMIONESCU

ÎNDEPLINIREA STANDARDELOR MINIMALE

DA

|

NU

**FIȘA DE ÎNDEPLINIRE A STANDARDELOR MINIMALE
conform CNATDCU**

Candidat: Victor Vlădăreanu

FIȘA DE VERIFICARE
a îndeplinirii standardelor minimale

Data: 23.03.2021

Semnătura:



Îndeplinirea standardelor minimale necesare și obligatorii pentru conferirea titlurilor didactice din învățământul superior și a gradelor profesionale de cercetare – dezvoltare

A2. Activitatea de cercetare științifică, dezvoltare tehnologică și inovare – CDI

A2.1. Articole și publicații științifice indexate Web of Science Thomson Reuters (WOS), unde $n = nr. de autori$ și FI este factorul de impact

Nr.	Autori	Titlu	Sursa	WOS	FI	n	P1.1
1	Vlădăreanu, V; Schiopu, P; Vlădăreanu, L	Theory And Application Of Extension Hybrid Force-Position Control In Robotics	University Politehnica Of Bucharest Scientific Bulletin-Series A-Applied Mathematics And Physics Volume: 76 Issue: 3 Pages: 43-54 Published: 2014 ISSN: 1223-7027	WOS:000340335100004	0.461	3	1.322
2	Vlădăreanu, V., Căpitanu, L., Vlădăreanu, L.	Neuro-Fuzzy Modelling of the Metallic Surface Characterization on Linear Dry Contact between Plastic Material Reinforced with SGF and Alloyed Steel	Materials (Basel, Switzerland), Volume 11, Issue 7, DOI:10.3390/ma11071181, Published: July 10, 2018, NLM Unique ID:101555929. ISSN:1996-1944	WOS:000442117300132 PubMed ID:29996527	2.467	3	5.334
					Total P1.1	6.656	
Nr.	Autori	Titlu	Sursa	WOS	FI	n	P1.2
3	Vlădăreanu, V; Dumitrache, I; Vlădăreanu, L; Sacala, IS; Tont, G; Moiescu, MA	Versatile Intelligent Portable Robot Control Platform Based on Cyber Physical Systems Principles	Studies In Informatics And Control Volume: 24 Issue: 4 Pages: 409-418 Published: Dec 2015, ISSN: 1220-1766, eISSN: 1841-429X	WOS:000366543700005	1.02	5	1.464
4	Iliescu, M; Vlădăreanu, V*; Serbanescu, M; Lazar, M	Sensor Input Learning for Time-of-Flight Scan Laser	Control Engineering and Applied Informatics, Volume:19 Issue: 2 Pages: 51-60 Published: June 2017 ISSN: 1454-8658	WOS:000404695500006	0.698	4	1.347

Vlădăreanu, V; Voiculescu, VG; Grosu, VA; Vlădăreanu, L; Trivediu, AM; Yan, H; Wang, HB; Ruse, L	Detection of Anomalous Behavior in Modern Smartphones Using Software Sensor-Based Data	Sensors Volume: 20 Issue: 10 Article Nr: 2768 Doi: 10.3390/S20102768 Published: May 2020, PubMed ID: 32413952, eISSN: 1424-8220	WOS:000539323700022	3.275	8	2.606
Total P1.2 5.417						

P1.3 = 0 .

Nr.	Autori	Titlu	Sursa	WOS	FI	n	P1.4
5	Dumitriu, D; Munteanu, L; Brisan, C; Chiroiu, V; Vasiu, RV; Melinte, O; Vlădăreanu, V	On the Continuum Modeling of the Tire/Road Dynamic Contact	CMES-Computer Modeling In Engineering & Sciences Volume: 94 Issue: 2 Pages: 159-173 Published: Aug 2013 ISSN: 1526-1492; eISSN: 1526-1506, FI: 1.183 in Aug 2013	WOS:000328307400003	1.183	7	0.593
6	Constantin, V; Carap, AC; Zaharia, L; Bobic, S; Ciudin, A; Bratila, E; Vlădăreanu, V; Socea, B	High correlation of lung ultrasound and chest X-ray after tube drainage in patients with primary spontaneous pneumothorax: can we omit X-rays for tube management?	European Surgery-Acta Chirurgica Austriaca Volume: 47 Issue: 4 Pages: 175-180 DOI: 10.1007/s10353-015-0333-9 Published: Aug 2015, ISSN: 1682-8631; eISSN: 1682-4016, FI 0.533 in Aug 2015	WOS:000358736300005	0.533	8	0.275
7	Sandru, OI; Vlădăreanu, L; Schiopu, P; Vlădăreanu, V; Sandru, A	Multidimensional Extenics Theory	University Politehnica Of Bucharest Scientific Bulletin-Series A-Applied Mathematics And Physics Volume: 75 Issue: 1 Pages: 3-12 Published: 2013 ISSN: 1223-7027	WOS:000315547300001	0.461	5	0.397
8	Feng, Y; Wang, H; Lu, T; Vlădăreanu, V; Li, Q; Zhao, C	Teaching Training Method of a Lower Limb Rehabilitation Robot	International Journal of Advanced Robotic Systems Volume: 13 Number: 2 Pages: 57-65 DOI: 10.5772/62445 Published: 2016 ISSN 1729-8806; eISSN 1729-8814	WOS:000372839300001	0.952	6	0.576

9	Wang, HB, Feng, YF, Yu, HN, Wang, ZH, Viădăreanu, V , Du, YX	Mechanical design and trajectory planning of a lower limb rehabilitation robot with a variable workspace	International Journal of Advanced Robotic Systems, Volume 5, Issue 3, Article Number: 1729881418776855, DOI: 10.1177/1729881418776855, May 17, 2018, ISSN: 1729-8814	WOS:000432614000001	0.952	6	0.576
	Yan, H; Wang, HB; Viădăreanu, L; Lin, MS; Viădăreanu, V ; Li, YG	Detection of Participation and Training Task Difficulty Applied to the Multi-Sensor Systems of Rehabilitation Robots	Sensors, Volume: 19 Issue: 21, Article Number: 4681, DOI: 10.3390/s19214681, Published: NOV 2019, PubMed ID: 31661870, eISSN: 1424-8220	WOS:000498834000078	3.275	6	1.738
					Total P1.4		4.154

* - autor corespondent

Dacă nu este specificat în Sursă, factorul de impact este cel de la data înscrierii la concurs.

$$P1 = P1.1 + P1.2 + P1.3 + P1.4 = 6.656 + 5.417 + 0 + 4.154 = 16.227$$

A2.2. Articole și publicații științifice BDI neincluse la A2.1.

Nr.	Autori	Titlu	Sursa
1	Viădăreanu, V ; Boscoianu, C; Munteanu, RI; Yu, HN; Viădăreanu, L	Dynamic control of a walking robot using the Versatile Intelligent Portable Robot Platform	2015 20th international conference on control systems and computer science Pages: 38-45 DOI: 10.1109/CSCS.2015.48 Published: 2015 : WOS:000380375200006 ISBN: 978-1-4799-1780-8
2	Viădăreanu, V ; Munteanu, RI; Mumtaz, A; Smarandache, F; Viădăreanu, L	The optimization of intelligent control interfaces using Versatile Intelligent Portable Robot Platform	International Conference On Communications, Management, And Information Technology (ICCMIT'2015) Book Series: Procedia Computer Science Volume: 65 Pages: 225-232 DOI: 10.1016/j.procs.2015.09.115 Published: 2015 WOS:000373831000026 ISSN: 1877-0509

3	Vlădăreanu, V; Schiopu, P; Sandru, OI; Vlădăreanu, L	Advanced Intelligent Control Methods in Open Architecture Systems for Cooperative Works on 4 Nano-Micro-Manipulators Platform	Advanced Topics In Optoelectronics, Microelectronics, And Nanotechnologies VII Book Series: Proceedings of SPIE Volume: 9258 Article Number: 925804 DOI: 10.1117/12.2070342 Published: 2015 WOS:000354179700004 ISSN: 0277-786X
4	Vlădăreanu, V; Schiopu, P; Deng, MC; Yu, HN	Intelligent Extended Control of the Walking Robot Motion	2014 International Conference On Advanced Mechatronic Systems (ICAMECHS) Book Series: International Conference on Advanced Mechatronic Systems Pages: 489-495 Published: 2014 WOS:000361466100091
5	Vlădăreanu, V; Schiopu, P; Cang, SA; Yu, HN; Deng, MC	Enhanced Extenics Controller for Real Time Control of Rescue Robot Actuators	2014 UKACC International Conference On Control (CONTROL) Pages: 725-730 Published: 2014 : WOS:000352626000124
6	Vlădăreanu, V; Smarandache, F; Vlădăreanu, L	Extension Hybrid Force-Position Robot Control in Higher Dimensions	OPTIROB 2013: Optimization Of The Intelligent Systems And Their Applications In Aerospace, Robotics, Mechanical Engineering, Manufacturing Systems, Biomechanics And Neurorehabilitation Book Series: Applied Mechanics and Materials Volume: 332 Pages: 260-269 DOI: 10.4028/www.scientific.net/AMM.332.260 Published: 2014 WOS:000345269700039 ISSN: 1660-9336
7	Vlădăreanu, V; Schiopu, P; Deng, MC	Robots Extension Control using Fuzzy Smoothing	2013 International Conference On Advanced Mechatronic Systems (ICAMECHS) Book Series: International Conference on Advanced Mechatronic Systems Pages: 511-516 Published: 2013 WOS:000330345600099 ISSN: 2325-0682
8	Vlădăreanu, V; Tonț, G; Vlădăreanu, L; Smarandache, F;	The navigation of mobile robots in non-stationary and non-structured environments	International Journal of Advanced Mechatronic Systems Volume: 5 Number: 4 Pages:232-242 Published: 2013, Inderscience Publishers DOI: 10.1504/IJAMECHS.2013.057663 ISSN: 1756-8412; eISSN: 1756-8420 (BDI: Scopus/Elsevier)
9	Vlădăreanu, V; Moga, R, Șchiopu, P; Vlădăreanu, I,	Multi-Sensors Systems Using Semi-Active Control for Monitoring and Diagnoses of the Power Systems	Convergence of Information Technologies and Control Methods with Power Systems Volume: 2 Issue:1 Pages: 78-83 Published: Cluj-Napoca 2013 DOI:10.3182/20130522-3-RO- 4035.00044 ISSN: 1474-6670 (BDI: Scopus/Elsevier)

10	Vlădăreanu, V; Şchiopu, P; Deng, M; Yu, HN	Extended control of walking motion for use in an autonomous robot platform	International Journal of Advanced Mechatronic Systems (IJAMECS), Volume: 6, Number: 4, Pages: 137-146, Published: 2015 ISSN: 1756-8412; e-ISSN: 1756-8420
11	Vlădăreanu, V; Sandru, OI; Vlădăreanu, L; Yu, HN	Extension Dynamical Stability Control Strategy for the Walking Robots	International Journal of Technology Management, SKIMA 2013, ISSN: 0267-5730; eISSN: 1741-5276 (BDI: Scopus/Elsevier)
Total N3.1			

Nr.	Autori	Titlu	Sursa
1	Boscoianu, M; Cioaca, C; Vlădăreanu, V; Boscoianu, CE	An Active Support Instrument for Innovation in Deep Uncertainty - the Strategic Management Ingredients in Robotics and Mechatronics	International Conference On Communications, Management, And Information Technology (ICCMIT'2015) Book Series: Procedia Computer Science Volume: 65 Pages: 210-217 DOI: 10.1016/j.procs.2015.09.112 Published: 2015 WOS:000373831000024 ISSN: 1877-0509
2	Sandru, OI; Vlădăreanu, L; Schiopu, P; Sandru, A; Vlădăreanu, V	Applications of the Extension Theory in Machine Learning Field	2013 International Conference On Advanced Mechatronic Systems (ICAMECHS) Book Series: International Conference on Advanced Mechatronic Systems Pages: 524-529 Published: 2013 WOS:000330345600101 ISSN: 2325-0682
3	Vlădăreanu, L; Tont, G; Ion, I; Vlădăreanu, V; Mitroi, D	Modeling and Hybrid Position-Force Control of Walking Modular Robots	Proceedings Of The American Conference On Applied Mathematics: Recent Advances In Applied Mathematics Book Series: Mathematics and Computers in Science and Engineering Pages: 510-518 Published: 2009 WOS:000279344900083 ISBN: 978-960-474-150-2
4	Vlădăreanu, L, Smarandache, F, Ali, M, Vlădăreanu, V, Deng, MC	Robot System Identification using 3D Simulation Component Applied on VIPRO Platform	2016 International Conference on Advanced Mechatronic Systems (ICAMECHS), Book Series: International Conference on Advanced Mechatronic Systems, Pages: 406-411, Published:2016, WOS:000399457100072, ISBN:978-1-5090-5346-9, ISSN: 2325-0682
5	Vlădăreanu, L, Iiescu, M, Wang, HB, Feng,	CSP and "omics" Technology Applied on Versatile and Intelligent Portable Platform for Modeling Complex Bio-medical Data	2016 International Conference on Advanced Mechatronic Systems (ICAMECHS), Book Series: International Conference on Advanced Mechatronic Systems, Pages: 423-428, Published 2016.

	YF, Vlădăreanu, V , Yu, H, Smarandache, F		WOS:000399457100075, ISBN:978-1-5090-5346-9, ISSN: 2325-0682
6	Cretu, A, Munteanu, R, Iudean, D, Vlădăreanu, V , Karaisas, P	Reliability Assessment of Linear Generator Type Wave Energy Converters	2016 International Conference on Applied and Theoretical Electricity (ICATE) Book Series: International Conference on Applied and Theoretical Electricity Published: 2016, WOS:000390767500033, ISSN: 2376-4163, ISBN: 978-1-4673-8562-6
7	Cretu, A, Munteanu, R, Iudean, D, Karaisas, P, Vlădăreanu, V	Quality of Modern Products - A Case Study on SmartPhones	2016 International Conference on Production Research - Regional Conference Africa, Europe and the Middle East (ICPR-AEM 2016) and 4TH International Conference on Quality and Innovation in Engineering and Management (QIEM 2016) Pages: 38-42 Published 2016, WOS:000436122900007, ISBN 978-606-737-180-2
8	Cretu, A, Munteanu, R, Iudean, D, Vlădăreanu, V , Festila, C	Markov Analysis of an Induction Motor	Proceeding of 2016 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR) Book Series: IEEE, International Conference on Automation Quality and Testing Robotics Pages: 13-18 Published: 2016, WOS:000390997900003, ISSN: 1844-7872, ISBN: 978-1-4673-8690-6
9	Vlădăreanu, L; Vlădăreanu, V ; Melinte, O; Radulescu, M; Pandelea, M; Ciocirlan, AC	Mobile Robots applied on virtual and real environments	2019 22nd International Conference On Control Systems And Computer Science (CSCS), Book Group Author(s):IEEE, Book Series: International Conference on Control Systems and Computer Science CSCS, Pages: 610-615, DOI: 10.1109/CSCS.2019.00111, Published:2019, Accession Number: WOS:000491270300104, ISBN:978-1-7281-2331-8, ISSN: 2379-0474, eISSN: 2379-0482
10	Vlădăreanu, L; Vlădăreanu, V ; Yu, HN; Mitroi, D; Ciocirlan, AC	Intelligent Control Interfaces Using Extenics Multidimensional Theory Applied on VIPRO Platforms for Developing the IT INDUSTRY 4.0 Concept	IFAC Papersonline, Volume: 52 Issue: 13 Pages: 922-927, DOI: 10.1016/j.ifacol.2019.11.312, Published:2019, Accession Number: WOS:000504282400156, ISSN: 2405-8963
11	Vlădăreanu, L; Vlădăreanu, V ; Gal, IA;	IoT Open Architecture Ground Control System by Adaptive Fusion Intelligent Interfaces for	Future Access Enablers For Ubiquitous And Intelligent Infrastructures, Fabulous 2019, Edited by:Poulkov, V, Book Series: Lecture Notes of the Institute for Computer Sciences, Social

Melinte, DO; Grosu, V; Radulescu, M	Robot Vectors Applied to 5G Network Densification Era	Informatics, and Telecommunications Engineering, Volume: 283 Pages: 118-123, DOI: 10.1007/978-3-030-23976-3_12, Published:2019, Accession Number: WOS:000552334400012, ISBN:978-3-030-23976-3; 978-3-030-23975-6, ISSN: 1867-8211, eISSN: 1867-822X
Căpitanu, L; Vlădăreanu, V; Vlădăreanu, L; Bădiță, LL	A neural network approach to the steel surface wear on linear dry contact, plastic material reinforced with SGF/steel	Jurnal Tribologi, Volume: 22 Pages: 75-108, Published:SEP 2019, Accession Number: WOS:000488258400008, ISSN: 2289-7232
Vlădăreanu, L; Vlădăreanu, V; Pop, N; Migdalovici, M; Boscolianu, M; Pop, S; Ciocirlan, A	Robot Extenics Control Developed by Versatile, Intelligent and Portable Robot Vipro Platform Applied on Firefighting Robots	International Journal Of Online And Biomedical Engineering, Volume: 16 Issue: 8 Pages: 99-107, DOI: 10.3991/ijoe.v16i08.15309, Published:2020, Accession Number: WOS:000551815900007, eISSN: 2626-8493
Total N3.2		

$$N3 = N3.1 + N3.2 = 11 + 13 = 24$$

A2.3. Brevete de invenție indexate

Nr.	Autori	Titlu	Sursa	Derwent	FI	n	P2.1
1	Vlădăreanu L, Velea L M, Munteanu R A, Siriteanu T, Munteanu M S, Tont G, Vlădăreanu V, Balas C, Tont D G, Melinte D O, Gal I A, Sireteanu T	Method for the dynamic control of a walking robot, involves computing of errors generated by position and force components on the freedom axes of a walking robot	RO125970-A0 ; EP2384863-A2 ; EP2384863-A3	Derwent Primary Accession Number: 2011-B55907	2	11	0.6
2	Moga D, Munteanu M S, Munteanu R A, Velea A L M, Velea L M, Vlădăreanu L, Vlădăreanu V	Real-time control method for flow tested actuators, involves processing function so that real-time control of trial actuator is obtained, without input	EP2077476-A1 ; RO125563-A2	Derwent Primary Accession Number: 2009-L33821	2	7	0.943

		signals to be generated by actuator to be tested through direct measuring							
Total P2.1									
Nr.	Autori	Titlu	Sursa	Derwent	FI	n	P2.2	1.543	
3	Munteanu R I, Vlădăreanu L, Sandru O I, Velea L M, Yu H, Mastorakis N, Tont G, Diaconescu E, Munteanu R A, Vlădăreanu V , Sandru A,	Method and device for actuating and controlling inertial mobile robots	RO126268-A2	Derwent Primary Accession Number: 2011-G56033	0.5	11	0.191		
4	Vlădăreanu L, Munteanu R I, Shuang C, Hongnian Y, Hongbo W, Vlădăreanu V , Hou Z, Melinte O, Wang X, Bia G, Feng Y	Method And Device For Haptic Robot Control On Uneven Ground And Uncertain Environment	RO130159-A0	Derwent Primary Accession Number: 2015-27382F	0.5	11	0.191		
5	Vlădăreanu L, Munteanu R I, Sireteanu T, Albu E, Vlădăreanu V , Munteanu R A, Cononovici B S, Iliescu M, Melinte O, Gal I A, Mitroi D, Chenaru O	Method And Device For Developing Control Interfaces For Mechatronic Systems In Virtual Reality Environment	RO131524-A0	Derwent Primary Accession Number: 2016-73518X	0.5	12	0.175		
6	Vlădăreanu L, Vlădăreanu V	Method And Device For Acoustic And Tactile Perception Of Space	RO129857-A0	Derwent Primary Accession Number: 2015-10393J	0.5	2	0.7		
7	Vlădăreanu L, Cai W, Munteanu R I, Yan C, Vlădăreanu V , Munteanu R A, Li W, Smarandache F, Gal I A	Method And Device For The Extended Hybrid Force-Position Control Of Robotic And Mechatronic Systems	RO128910-A0	Derwent Primary Accession Number: 2013-U41455	0.5	9	0.233		
8	Sandru O I, Munteanu R I, Vlădăreanu L, Velea L M, Schiopu P, Munteanu M S, Sandru A, Tont G, Vlădăreanu V , Bacalu I, Stanciu L	Method And Device Of Propulsion Without Own Energy Source For Mobile Systems	RO126583-A2	Derwent Primary Accession Number: 2011-Q13223	0.5	11	0.191		
9	Vlădăreanu L, Munteanu R I, Sireteanu T, Dumitrache I, Iliescu M, Cononovici B	Method And Device For Hybrid Speed-Position Control With	RO131780-A0	Derwent Primary Accession	0.5	18	0.117		

S, Vlădăreanu V, Munteanu R A, Melinte O, Gal I A. Barbu V, Munteanu M S, Mitroi D, Moisescu M, Chenaru O, Ionel M, Sacala I S, Florea G	Applications In Intelligent Control Platforms	Number: 2017- 272243	Total P2.2 1.798
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$$P2 = P2.1 + P2.2 = 1.543 + 1.798 = 3.341$$

A2.4. Produse, tehnologii, platforme și servicii inovative (validate conform procedurilor specifice unităților de învățământ superior sau de cercetare)

$$N4.1 = 0$$

$$N4.2 = 0$$

A2.5. Monografii / cărți de specialitate, format tipărit / electronic (min. 100 pg.)

Nr.	Autori	Titlu	Sursa
1	Vlădăreanu, V	Metode avansate de control inteligent în robotică și mecatronică. Aplicații ale Teoriei Extenicii în controlul inteligent al roboților	Editura MEDIAMIRA, ISBN 978-973-713-367-0, pp.160, iulie 2018
2	Vlădăreanu, V	Algoritmi inteligenți în robotică și mecatronică	Editura MEDIAMIRA, ISBN 978-973-713-366-3, pp.204, august 2018
Total N4.3			

$$N4.3 = 2$$

$$N4.4 = 0$$

$$N4 = N4.1 + N4.2 + N4.3 + N4.4 = 0 + 0 + 2 + 0 = 2$$

A3. Recunoașterea și impactul activității – RIA

A3.1. Atragere resurse financiare prin granturi / proiecte / contracte

Nr.	Proiect	Program	Coordonator	RON	EUR	S1
1	Multi Agent Aerial System with Mobile Ground Control Station for Information Management MASIM	Programul Parteneriate in domeniul prioritare - PN II, MEN-UEFISCDI, PN-II-PT-PCCA-2013-4-1349, proiect no. 255/2014	Academia Fortelor Aeriene Brasov	78000	17333	17.333
2	Apanova	Economic Nr. 9288 / 10.05.2016	Institutul de Mecanica Solidelor al Academiei Române	13500	3000	3
3	Proiectare și simulare sistem urmărirea obiective multiple bazată pe mișcare, destinat implementării pe platforme embedded	Economic Nr. 2111 / 27.07.2016	Institutul de Mecanica Solidelor al Academiei Române	24990	5553	5.553
4	Contract utilizare brevet „Metode și dispozitiv de control în timp real al roboților prin proiectie virtuală”	Economic 28.07.2015	Institutul de Mecanica Solidelor al Academiei Române	9000	2000	2
				Total S1		27.886

Nr.	Proiect	Program	Coordonator	RON	EUR	S2
5	Real-time adaptive networked control of rescue robots, acronim RABOT, RABOT-318902-FP7-IRSES, 2013-2017	7th Framework Program for Research, Project Marie Curie, International Research Staff Exchange Scheme (IRSES)	Staffordshire University, UK	18211.50	4047	4.047
6	Versatile Intelligent Portable Robot Platform VIPRO	ID2009/2013, no. 14/2014-2016 Granturi MEN-UEFISCDI, Program “PARTENERIATE”-PN II	Institutul de Mecanica Solidelor al Academiei Române	79268.1	17615	17.615
7	Interfețe haptice reconfigurabile utilizate în reproducerea contactului dinamic – Dezvoltări teoretice și experimentale	PN-II-PT-PCCA-2011-3.1-0190 Project of the National Authority for Scientific Research (ANCS, UEFISCSU) Contract 149/2012	Universitatea Tehnica Cluj-Napoca	4979.6	1106.57	1.107

8	Smart Robots for FireFighting SMOOTH	H2020-MSCA-RISE-2016-734875	Bournemouth University, UK	9927	2206	2.206
9	Construcții Metalice Ecologice și Sustenabile prin Tehnologii Eficiente de Fabricare Top MetEco Ambient	POC Nr. contract de finanțare: 107/09-09-2016	Top Ambient SRL	490275	109050	109.05
10	IMSAR – Yanshan University Joint Laboratory of Intelligent Rehabilitation Robot	PN-III-P3-3.1-PM-RO-CN-2018-0144	Institutul de Mecanica Solidelor al Academiei Române	9900	2200	2.2
11	Platformă de sisteme inteligente multiagent pentru monitorizarea calității apei pe sectorul românesc al Dunării și Deltei Dunării – MultiMond	PN-III-P1-1.2-PCCDI-2017-0637	Institutul Național de Cercetare-Dezvoltare pentru Fizica Laserilor, Plasmei și Radiației	1500	333	3.33
					Total S2	139.555

Cursul valutar considerat este: 1 EUR = 4.5 RON.

Componentă punctaj proiecte în calitate de Membru:

5. Real-time adaptive networked control of rescue robots, acronym RABOT, 2012-2015
 - Logistică: Mobilitati: 4047 Euro
 - Total: 4.047 EUR
6. Versatile Intelligent Portable Robot Platform VIPRO
 - Salarii: 17525 RON
 - Logistică: Echipamente: 61742.49 RON
 - Total: 79268.1 RON = 17615.133 EUR
7. Interfețe haptice reconfigurabile utilizate în reproducerea contactului dinamic – Dezvoltări teoretice și experimentale
 - Salarii: 4085 RON
 - Deplasări: 894.6 RON
 - Total: 4979.6 RON = 1106.57 EUR
8. Smart Robots for FireFighting SMOOTH
 - Logistică: Mobilități: 2.206 Euro
 - Total: 2.206 EUR
9. Construcții Metalice Ecologice și Sustenabile prin Tehnologii Eficiente de Fabricare Top MetEco Ambient
 - Salarii: 101600 RON = 22578 EUR
10. IMSAR – Yanshan University Joint Laboratory of Intelligent Rehabilitation Robot

- Logistică: Participari conferințe, publicări articole, echipamente: 2200 Euro

- Total: 2200 EUR

11. Platformă de sisteme inteligente multiagent pentru monitorizarea calității apei pe sectorul românesc al Dunării și Deltei Dunării – MultiMonD

- Salarii: 1500 RON

- Total: 1500 RON = 333 EUR

A3.2. Prezentarea / Diseminarea rezultatelor: prezență la manifestări științifice în calitate de autor / co-autor de lucrări, profesor invitat

Nr.	Autori	Titlu	Conferință	Data	Loc
1	Vlădăreanu, L.; Tont, G.; Ion, I.; Vlădăreanu, V.; Mitroi, D	Modeling and Hybrid Position-Force Control of Walking Modular Robots	American Conference on Applied Mathematics	Jan 27-29, 2010	Harvard Univ, Cambridge, SUA
2	Smarandache, F, Vlădăreanu, V	Applications of Extenics to 2D-Space and 3D-Space	6th Conference on Software, Knowledge, Information Management and Applications (SKIMA 2012)	Sep 21-23, 2012	Chengdu, China
3	Vlădăreanu, L., Tont, G., Vlădăreanu, V., Smarandache, F., Capitanu, L	The navigation mobile robot systems using Bayesian approach through the virtual projection method.	International Conference on Advanced Mechatronic Systems (ICAMechS 2012)	Sep 18-21, 2012	Tokyo, Japan
4	Vlădăreanu, L, Vlădăreanu, V, Șchiopu, P	Hybrid Force-Position Dynamic Control of the Robots Using Fuzzy Applications	2nd International Conference on Biomechanics, Neuro rehabilitation, Mechanical Engineering, Manufacturing Systems, Robotics and Aerospace (ICMERA 2012)	Nov 15-17, 2012	București, România
5	Vlădăreanu, L, Șandru, OI, Vlădăreanu, V	The Robot Real Time Control using the Extenics Multidimensional Theory	1st International Conference on Mechanical and Robotics Engineering (MREN 2013)	May 14-16, 2013	Vouliagmeni, Greece
6	Vlădăreanu, V; Smarandache, F; Vlădăreanu, L	Extension Hybrid Force-Position Robot Control in Higher Dimensions	8th IEEE/IACSIT/SCIEI International Conference on Optimization of the Intelligent Systems and Their Applications in Aerospace, Robotics, Mechanical Engineering, Manufacturing Systems, Biomechanics and Neurorehabilitation (OPTIROB 2013)	Jun 20-23, 2013	Constanța, România

7	Vlădăreanu, V; Şchiopu, P; Deng, MC	Robots Extension Control using Fuzzy Smoothing	International Conference on Advanced Mechatronic Systems (ICAMechS 2013)	Sep 25-27, 2013	Luoyang, Peoples R China
8	Vlădăreanu, L, Sandru, OI, Vlădăreanu, V	Extension Hybrid Force-Position Control of Mechatronics Systems	INTERNATIONAL SYMPOSIUM ON EXTENICS AND INNOVATION METHOD (ISEIM 2013)	Aug 16-18, 2013	Beijing, China
9	Vlădăreanu, V; Schiopu, P; Sandru, OI; Vlădăreanu, L	Advanced Intelligent Control Methods in Open Architecture Systems for Cooperative Works on 4 Nano-Micro-Manipulators Platform	7th International Conference on Advanced Topics in Optoelectronics, Microelectronics, and Nanotechnologies (ATOM-N 2014)	Aug 21-24, 2014	Constanța, România
10	Vlădăreanu, V; Schiopu, P; Deng, MC; Yu, HN	Intelligent Extended Control of the Walking Robot Motion	International Conference on Advanced Mechatronic Systems (ICAMechS 2014)	Aug 10-12, 2014	Kumamoto, Japan
11	Vlădăreanu, V; Schiopu, P; Cang, SA; Yu, HN; Deng, MC	Enhanced Extenics Controller for Real Time Control of Rescue Robot Actuators	United-Kingdom-Automatic-Control-Council (UKACC) 10th International Conference on Control (CONTROL)	Jul 09-11, 2014	Loughborough, United Kingdom
12	Gai, IA, Pop N, Vlădăreanu, V, Ilicscu M, Vlădăreanu, L	Applications Of The Virtual Intelligent Portable Vipro Platform For 3d Contact Problems With Friction In The Humanoid Robots Control	6th International Conference Computational Mechanics and Virtual Engineering (COMEC 2015)	Oct 15 – 16, 2015	Braşov, România
13	Vlădăreanu, V; Boscoianu, C; Munteanu, RI; Yu, HN; Vlădăreanu, L	Dynamic control of a walking robot using the Versatile Intelligent Portable Robot Platform	20th International Conference on Control Systems and Computer Science 2015 (CSCS 2015)	May 27-29, 2015	Bucureşti, România
14	Boscoianu, M; Cioaca, C; Vlădăreanu, V; Boscoianu, CE Vlădăreanu, V; Munteanu, RI; Mumtaz, A; Smarandache, F; Vlădăreanu, L	An Active Support Instrument for Innovation in Deep Uncertainty - the Strategic Management Ingredients in Robotics and Mechatronics The optimization of intelligent control interfaces using Versatile Intelligent Portable Robot Platform	International Conference on Communications, Management, and Information Technology (ICCMIT 2015)	Apr 20-22, 2015	Prague, Czech Republic

15	Vlădăreanu, L; Smarandache, F; Ali, M; Vlădăreanu, V; Deng, M	Robot System Identification using 3D Simulation Component Applied on VIPRO Platform	International Conference on Advanced Mechatronic Systems (ICAMechS 2016)	Nov. 30 - Dec. 3, 2016	Melbourne, Australia
16	Cononovici, SB; Vlădăreanu, V; Wang, H; Feng, Y	Control Strategies for Synchronous Generation of Resistive Loads Correlated to the Robot Motion Environment	International Workshop on Cyber Physical Systems (IWocPS-2016)	May 26-27 2016	București, România
17	Vlădăreanu, V; Cononovici, SB; Munteanu, RI; Wang, H; Feng, Y; Vlădăreanu, L	Modelling Inverse Kinematics for Virtual Environment Robot Simulation	The 21th International Conference on Control Systems and Computer Science (CSCS 2017)	May 29 - 31, 2017	București, România
18	Vlădăreanu, V; Cononovici, SB	Application for Position and Load Reference Generation of a Simulated Mechatronic Chain	International Conference on Communications, Management, and Information Technology (ICCMIT 2017)	April, 3-5, 2017	Warsaw, Poland
19	Vlădăreanu, V; Mitroi, D; Migdalovici, M; Wang, H; Feng, Y; Niu, J; Vlădăreanu, L	The Functional and Experimental Model for Exterics Simulations of the Mobile Robots	International Conference on Modelling and Optimisation in the fields of Aerospace, Astronautics, Robotics, Mechanical Engineering, Manufacturing Systems, New Technology of Materials, Non Conventional Energy and Neurorehabilitation (OPTIROB 2017)	June 29 - July 3, 2017	Jupiter, România
20	Vlădăreanu, V; Smarandache, F; Vlădăreanu, L	Neutrosophic Application for Decision Logic in Robot Intelligent Control Systems	The 2017 IEEE International Conference on INnovations in Intelligent SysTems and Applications (INISTA 2017)	July 3-5, 2017	Gdynia, Poland
Total N5					

A3.3. Citări în publicații BDI (se exclud autocitățile)

Nr.	Autori	Titlu	Sursă	WOS	FI
1	Vlădăreanu, V; Schiopu, P; Vlădăreanu, L Elbagoury, BM; Vlădăreanu, L	<i>Theory and Application of Extension Hybrid Force-Position Control in Robotics</i> A Hybrid Real-Time EMG Intelligent Rehabilitation Robot Motions Control based on Kalman Filter, Support Vector Machines and Particle Swarm Optimization	<i>University Politehnica of Bucharest Scientific Bulletin - Series A - Applied Mathematics and Physics Volume: 76 Issue: 3 Pages: 43-54 published 2014</i> Proceedings of the 2016 10th International Conference on Software, Knowledge, Information Management and Applications (SKIMA), Book Series: International Conference on Software Knowledge Information Management and Applications, Pages: 439-444, Published: 2016, Conference: 10th International Conference on Software, Knowledge, Information Management and Applications (SKIMA), Location: Chengdu, Peoples R China, Date: DEC 15-17, 2016, ISBN:978-1-5090-3298-3, ISSN: 2373-082X	WOS:000340335100004 WOS:000403599100074	0
2	Sandru, OI; Vlădăreanu, L; Schiopu, P; Vlădăreanu, V; Sandru, A Li, X; Liu, H; Chen, C; et al.	<i>Multidimensional Extenics Theory</i> A Hybrid Information Construction Model on Factor Space and Extenics	<i>University Politehnica of Bucharest Scientific Bulletin - Series A - Applied Mathematics and Physics Volume: 75 Issue: 1 Pages: 3-12 published 2013</i> Book Series: Procedia Computer Science, Volume: 122, Pages: 1168-1174, DOI: 10.1016/j.procs.2017.11.488, Published: 2017, Conference: 5th International Conference on Information Technology and Quantitative Management (ITQM), Location: New Delhi, India, Date: DEC 08-10, 2017, ISSN: 1877-0509 Journal of Advance Mechanical Design Systems and Manufacturing, Volume 11, Issue 5, Article Number: 17-00273, DOI: 10.1299/jamdsm.2017jamdsm0059, Published: 2017, ISSN: 1881-3054	WOS:000315547300001 WOS:000426698300155	0
3	Qiao, S; Xia, Y; Liu, Z; et al.	Performance evaluation of bolter miner cutting head by using multicriteria decision-making approaches		WOS:000423942400001	0.387

4	Pop, N; Vlădăreanu, I; Popescu, IN; et al.	A numerical dynamic behaviour model for 3D contact problems with friction	Computational Materials Science, Volume 94, Pages 285-291, Special Issue. DOI: 10.1016/j.commatsci.2014.05.072, Published: NOV 2014, ISSN: 0927-0256, eISSN: 1879-0801	WOS:0003423600000034	2.292
5	Sandru, OI; Smarandache, F; Sandru, A	A Position Indicator with Applications in the Field of Designing Forms with Artificial Intelligence	University Politehnica of Bucharest Scientific Bulletin - Series A - Applied Mathematics and Physics Volume: 75 Issue: 2 Pages: 133-138 published 2013, ISSN: 1223-7027	WOS:000324280400012	0.279
	Vlădăreanu, V; Dumitrache, I; Vlădăreanu, L. et al.	<i>Versatile Intelligent Portable Robot Control Platform Based on Cyber Physical Systems Principles</i>	<i>Studies in Informatics and Control, Volume 24, Issue 4, Pages 409-418, Published Dec 2015, ISSN: 1220-1766</i>	WOS:000366543700005	
6	Precup, RE; David, RC; Radae, MB; et al.	Experiment-Based Comparison of Nature-Inspired Algorithms for Optimal Tuning of PI-Fuzzy Controlled Nonlinear DC Servo Systems	2016 International Symposium on Power Electronics, Electrical Drives, Automations and Motion (SPEEDAM), IEEE Book Group Authors, Pages 1261-1266, Published 2016, Conference: International Symposium on Power Electronics, Electrical Drives, Automation and Motion (SPEEDAM), Location: Capri, Italy, Date: JUN 22-24, 2016, ISBN:978-1-5090-2067-6	WOS:000387110600208	0
	Vlădăreanu, V; Munteanu, RI; Mumtaz, Ali; et al.	<i>The optimization of intelligent control interfaces using Versatile Intelligent Portable Robot Platform</i>	<i>Procedia Computer Science, Volume 65, Pages 225-232, DOI: 10.1016/j.procs.2015.09.115, Published 2015, Conference: International Conference on Communications, Management, and Information Technology (ICCMIT), Location: Prague, Czech Republic, Date: APR 20-22, 2015, ISSN: 1877-0509</i>	WOS:000373831000026	
7	Ethagoury, BM; Salem, ABM; Vlădăreanu, L	Intelligent Adaptive Precrash Control For Autonomous Vehicle Agents (Cbr Engine & Hybrid A* Path Planner)	Conference: International Conference on Advanced Mechatronic Systems (ICAMEchS) Location: Melbourne, AUSTRALIA Date: NOV 30-DEC 03, 2016, Sponsor(s): IEEE; Swinburne Univ Technol., 2016 International Conference On Advanced Mechatronic Systems (ICAMECHS) Book Series: International Conference on Advanced Mechatronic Systems Pages:	WOS:000399457100076	0

			429-436 Published: 2016, ISBN:978-1-5090-5346-9, ISSN: 2325-0682	
8	Teodorescu, M; Gifu, D; Smarandache, F	Maintenance Operating System Uncertainties Approached through Neutrosophic Theory	Conference: IEEE International Conference on Fuzzy Systems (FUZZ-IEEE) Location: Vancouver, CANADA Date: JUL 24-29, 2016, Sponsor(s): IEEE; IEEE Computat Intelligence Soc; Int Neural Network Soc; Evolutionary Programming Soc; IET; Gulf Univ Sci & Technol; IEEE Big Data Initiat, 2016 IEEE International Conference On Fuzzy Systems (FUZZ-IEEE) Book Series: IEEE International Fuzzy Systems Conference Proceedings Pages: 2452-2459 Published: 2016, ISBN:978-1-5090-0625-0, ISSN: 1544-5615	WOS:000392150700342 0
	Dumitriu, D; Munteanu, L; Brisan, C; Chiroiu, V; Vasiu, RV; Melinte, O; Vlădăreanu, V	On the Continuum Modeling of the Tire/Road Dynamic Contact	CMES-Computer Modeling In Engineering & Sciences, Volume: 94 Issue: 2 Pages: 159-173, Published: AUG 2013, ISSN: 1526-1492, eISSN: 1526-1506	WOS:000328307400003
9	Wu, J.; Zhang, C.; Wang, Y.; et al.	Wear Predicted Model of Tread Rubber Based on Experimental and Numerical Method	Experimental Techniques, Volume: 42 Issue: 2 Pages: 191-198, DOI: 10.1007/s40799-017-0214-1, Published: APR 2018, ISSN: 0732-8818, eISSN: 1747-1567	WOS:000432309300006 0.932
10	Chiroiu, V; Brisan, C; Dumitriu, D; et al.	A sonification algorithm for developing the off-roads models for driving simulators	Mechanical Systems And Signal Processing, Volume: 98 Pages: 310-323, DOI: 10.1016/j.ymssp.2017.05.002, Published: JAN 1 2018, ISSN: 0888-3270	WOS:000413055900019 4.116
11	Munteanu, L; Chiroiu, V; Brisan, C; et al.	On the 3D normal tire/off-road vibro-contact problem with friction	Mechanical Systems And Signal Processing, Volume: 54-55 Pages: 377-393, DOI: 10.1016/j.ymssp.2014.09.009, Published: MAR 2015, ISSN: 0888-3270	WOS:000347856300027 4.116

	<i>Vlădăreanu, V; Schiopu, P; Deng, M</i>	<i>Robots Extension Control using Fuzzy Smoothing</i>	<i>Conference: International Conference on Advanced Mechatronic Systems (ICAMechS) Location: Luoyang, Peoples R China Date: SEP 25-27, 2013, Sponsor(s): IEEE; Henan Univ Sci & Technol, 2013 International Conference On Advanced Mechatronic Systems (ICAMECHS) Book Series: International Conference on Advanced Mechatronic Systems Pages: 511-516 Published: 2013, ISBN:978-1-4799-2518-6; 978-1-4799-2519-3, ISSN: 2325-0682</i>	<i>WOS:000330345600099</i>		
12	Lu, X; Miao, X; Liu, W; et al.	Extension control strategy of a single converter for hybrid PEMFC/battery power source	Applied Thermal Engineering, Volume: 128 Pages: 887-897, DOI: 10.1016/j.applthermaleng.2017.09.003, Published: JAN 5 2018, ISSN: 1359-4311	WOS:000414884700084	3.444	
13	Wang, M; Wang, X; Su, X; et al.	Generator governing system based on grey prediction and extension control	IET Generation Transmission & Distribution, Volume: 11 Issue: 15 Pages: 3776-3782 Special Issue: SI, DOI: 10.1049/iet-gtd.2016.0947, Published: OCT 19 2017, ISSN: 1751-8687, eISSN: 1751-8695	WOS:000415379700015	2.213	
	<i>Feng, Y; Wang, H; Lu, T; Vlădăreanu, V; Li, Q; Zhao, C</i>	<i>Teaching Training Method of a Lower Limb Rehabilitation Robot</i>	<i>International Journal of Advanced Robotic Systems Volume: 13 Number: 2 Pages: 57-65 DOI: 10.5772/62445 Published: 2016 ISSN 1729-8806; eISSN 1729-8814</i>	<i>WOS:000372839300001</i>		
14	Wang, HB, Feng, YF, Yu, HN, Wang, ZH, Vlădăreanu, V, Du, YX	Mechanical design and trajectory planning of a lower limb rehabilitation robot with a variable workspace	International Journal Of Advanced Robotic Systems, Volume 15, Issue 3, Article Number: 1729881418776855, DOI: 10.1177/1729881418776855, Published May 17, 2018, ISSN: 1729-8814	WOS:000432614000001	0.952	
15	Feng, YF, Wang, HB, Du, YX, Chen, F, Yan, H, Yu, HF	Trajectory planning of a novel lower limb rehabilitation robot for stroke patient passive training	Advances In Mechanical Engineering, Volume 9, Issue 12, Article Number: 1687814017737666, DOI: 10.1177/1687814017737666, Published Dec 16, 2017, ISSN: 1687-8140	WOS:000418167800001	0.848	
Total CI					Total S FI	19.579

$$C = C1 + S_FI = 15 + 19.579 = 34.579$$

Îndeplinire cerințe minimale

Activitate	Criteriu	Minim	Obținut	Calcul
A2. Activitatea de cercetare științifică, dezvoltare tehnologică și inovare -- CDI	P1 + P2	10	19.568	$P1 + P2 = 16.227 + 3.341 = 19.568$
	P1	6	16.227	$P1 = P1.1 + P1.2 + P1.3 + P1.4 = 6.656 + 5.417 + 0 + 4.154 = 16.227$
	N3	10	24	$N3 = N3.1 + N3.2 = 11 + 13 = 24$
	N3.1	5	11	-
	N4	2	2	$N4 = N4.1 + N4.2 + N4.3 + N4.4 = 0 + 0 + 2 + 0 = 2$
	N4.3	1	2	-
	S1 + S2	50	167.441	$S1 + S2 = 27.886 + 139.555 = 167.441$
A3. Recunoașterea și impactul activității - RIA	N5	10	20	-
	C	25	34.579	$C = C1 + S \quad FI = 15 + 19.579 = 34.579$

