FISĂ DE AUTO-EVALUARE PRIVIND STANDARDELE MINIMALE ȘI OBLIGATORII PENTRU CONFERIREA TITLURILOR DIDACTICE DIN ÎNVĂȚĂMÂNTUL SUPERIOR ȘI A GRADELOR PROFESIONALE DE CERCETARE – DEZVOLTARE

Activitatea de cercetare științifică, dezvoltare tehnologică și inovare – CID (A2)

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

Subcategorie	Nr. Crt.	Articol	Punctaj Realizat
P1.1 = 2*(0.2+FI)	1.	**Gal Ionel-Alexandru,** Danut Bucur, Luige Vladareanu. "DSmT Decision-Making Algorithms for Finding Grasping Configurations of Robot Dexterous Hands." Symmetry-Basel (20738994) 10.6 (2018). WOS:000436283000018. (IF/2017: **1.256**)	2,912
		Punctaj parțial – P1.1	**2,912**
P1.2	1.		
		Punctaj parțial – P1.2	**0**
P1.3	1.		
		Punctaj parțial – P1.3	**0**
P1.4 = 3*(0.2+FI)/n	1.	Pop N., Vladareanu L., Popescu I. N., Ghiţă C., **Gal Ionel-Alexandru**, Cang S., Yu H., Bratu V., Deng M. (2014). "A numerical dynamic behaviour model for 3D contact problems with friction". Computational Materials Science, 94, 285-291. WOS:000342360000034. (IF/2017: **2.53**)	0,91
		Punctaj parțial – P1.4	**0,91**
		TOTAL A2.1	**3.822**

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

Subcategorie	Nr. Crt.	Articol	Punctaj Realizat
N3.1 = nr.	1.	**Ionel-Alexandru Gal**, Vladareanu, L., Yu, H., Wang, H., & Deng, M. (2015, August). "Advanced intelligent walking robot control through sliding motion control and bond graphs methods". In Advanced Mechatronic Systems (ICAMechS), 2015 International Conference on (pp. 36-41). IEEE. WOS:000380467100008.	1
	2.	**Ionel-Alexandru Gal**, Munteanu, R. I., Melinte, O., & Vladareanu, L. (2013, May). „A new approach of sliding motion robot control using bond graph". In Advanced Topics in Electrical Engineering (ATEE), 2013 8th International Symposium on (pp. 1-6). IEEE. WOS:000332928500169.	1
	3.	**Ionel-Alexandru Gal**, Luige Vladareanu, Radu I. Munteanu. "Sliding motion control with bond graph modeling applied on a robot leg." Rev. Roum. Sci. Techn.–Électrotechn. et Énerg 60.2 (2015): 215-224. WOS:000355067400011. (IF/2017: **1.114**)	1
		Punctaj parțial – N3.1	**3**

N3.2 = nr.	1.	Vladareanu, L., **Ionel-Alexandru Gal**, Yu, H., & Deng, M. (2015). Robot control intelligent interfaces using the DSmT and the neutrosophic logic. International Journal of Advanced Mechatronic Systems, 6(2-3), 128-135, ISSN: 17568412, DOI: 10.1504/IJAMECHS.2015.070710 (BDI SCOPUS).	1
	2.	Vladareanu, L., Yu, H., **Ionel-Alexandru Gal**, & Deng, M. (2014, August). „Improvement of the walking robot dynamic stability using the DSmT and the neutrosophic logic". In Advanced Mechatronic Systems (ICAMechS), 2014 International Conference on (pp. 43-48). IEEE. WOS:000361466100009.	1
	3.	Bruja A., Vladareanu L., **Ionel-Alexandru Gal**, Wang H., Yu H., Liu J. "The stability performances improvement through kinematic and dynamic modeling of the hopping robots", In 2014 UKACC International Conference on Control (CONTROL) (pp. 492-497). (Iulie 2014). IEEE, DOI: 10.1109/CONTROL.2014.6915189.	1
	4.	Liu, J., Wang, H., Yu, H., Zhang, L., Vladareanu, L., Bruja, A., & **Ionel-Alexandru Gal**, "Design of a new solution for the wheeled hopping robot". In Control (CONTROL), 2014 UKACC International Conference on (pp. 720-724). (Iulie 2014). IEEE, WOS:000352626000123.	1
	5.	Melinte, O., Munteanu, R., **Gal Ionel-Alexandru**, & Vladareanu, L. (2013, May). „Compensating dynamics of impedance haptic devices using Neural Networks". In Advanced Topics in Electrical Engineering (ATEE), 2013 8th International Symposium on (pp. 1-6). IEEE. WOS:000332928500193.	1
	6.	Vladareanu, L., Pop, N., **Gal Ionel-Alexandru**, & Deng, M. (2013, September). „The 3D elastic quasi-static contact applied to robots control". In Advanced Mechatronic Systems (ICAMechS), 2013 International Conference on (pp. 517-523). IEEE. WOS:000330345600100.	1
	7.	Vladareanu, L., Tont, G., Ion, I., Velea, L. M., **Gal Ionel-Alexandru**, & Melinte, O. (2010, March). „Fuzzy dynamic modeling for walking modular robot control". In Proceedings of the 9th WSEAS International Conference on Application of Electrical Engineering (pp. 163-170). WOS:000278030700024.	1
	8.	Vladareanu, L., Ion, I., Velea, L. M., Mitroi, D., & **Gal Ionel-Alexandru**. (2009). „The real time control of modular walking robot stability". In Proceedings of the 8th International Conference on Applications of Electrical Engineering (AEE'09), Houston, USA (pp. 179-186). WOS:000266634900028.	1
	9.	Velea, L. M., Vladareanu, L., Podea, Z., Velea, A. L. M., **Gal Ionel-Alexandru**, & Melinte, O. (2008, June). „Modular installations for complex automations". In Proceedings of the 9th WSEAS International Conference on International Conference on Automation and Information (pp. 297-302). World Scientific and Engineering Academy and Society. WOS:000258497000049.	1
	10.	Vladareanu, L., Ion, I., VELEA, L. M., Munteanu, M. S., Melinte, O., & **Gal Ionel-Alexandru** (2008, June). „A New Method for Real Time Control of Actuators in Continuos Flux". In Proceedings of the 9th WSEAS International Conference on AUTOMATION and INFORMATION (ICAI08), Bucharest, Romania (pp. 303-308). WOS:000258497000050.	1
		Punctaj parțial – N3.2	**10**
		TOTAL A2.2	**13**

Categoria A2.3. Brevete de invenții indexate

Subcategorie	Nr. Crt.	Brevet	Punctaj Realizat
P2.1 = punctaj calculat ca pentru A2.1 și FI=2	1.	Vladareanu L, Munteanu R I, Sireteanu T, Dumitrache I, Iliescu M, Cononovici B S, Vladareanu V, Munteanu R A, Melinte O, **Gal Ionel-Alexandru**, Barbu V, Munteanu M S, Mitroi D, Moisescu M, Chenaru O, Ionel M, Sacala I S, Florea G. „Method and device for hybrid speed-position control with applications in intelligent control platforms". Patent Number: RO131780-A0. Derwent Primary Accession Number: 2017-272243.	0,366
	2.	Vladareanu L, Munteanu R I, Sireteanu T, Albu E, Vladareanu V, Munteanu R A, Cononovici B S, Iliescu M, Melinte O, **Gal Ionel-Alexandru**, Mitroi D, Chenaru O. „Method and device for developing control interfaces for mechatronic systems in virtual reality environment". Patent Number: RO131524-A0. Derwent Primary Accession Number: 2016-73518X.	0,55
	3.	Vladareanu L, Cai W, Munteanu R I, Yan C, Vladareanu V, Munteanu R A, Li W, Smarandache F, **Gal Ionel-Alexandru.** „Method and device for the extended hybrid force-position control of robotic and mechatronic systems" Patent Number: RO128910-A0. Derwent Primary Accession Number: 2013-U41455.	0,733
	4.	Vladareanu L, Velea L M, Munteanu R A, Siriteanu T, Munteanu M S, Tont G, Vladareanu V, Balas C, Tont D G, Melinte D O, **Gal Ionel-Alexandru**, 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" Patent Number: RO125970-A0; EP2384863-A2; EP2384863-A3. Derwent Primary Accession Number: 2011-B55907.	0,55
		Punctaj parțial – P2.1	**2,199**
P2.2	1.		
		Punctaj parțial - P2.2	**0**
		TOTAL A2.3	**2,199**

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

Subcategorie	Nr. Crt.	Produse, tehnologii, platforme și servicii inovative	Punctaj Realizat
N4.1	1.		
		Punctaj parțial – N4.1	**0**
N4.2	1.		
		Punctaj parțial – N4.2	**0**
		TOTAL A2.4	**0**

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

Subcategorie	Nr. Crt.	Monografie/Carte	Punctaj Realizat
N4.3 = nr.	1.	„Strategii de control hibrid forţă-poziţie în robotică”, autor **Gal Ionel-Alexandru**, Editura Editgraph, ISBN: 978-606-663-732-9, 200 pagini, anul apariției 2019.	1
		Punctaj parțial – N4.3	**1**
N4.4	1.		
		Punctaj parțial – N4.4	**0**
		TOTAL A2.5	**1**

Recunoașterea și impactul activității – RIA (A3)

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

Subcategorie	Nr. Crt.	Grant/Proiect/Contract	Resurse Atrase	Punctaj Realizat
S1	1.			
			Punctaj parțial – S1	**0**
S2 = sumă echivalentă în mii Euro	1.	Proiect SMOOTH - Smart Robots for FireFighting, the European Union’s Horizon 2020, Marie Skłodowska-Curie Research and Innovation Staff Exchange. Project No. 734575, Program: EU H2020-MSCA-RISE 2017-2020, Perioada: 2017 – 2020. Director proiect IMSAR: Cercetător ştiinţific gr. 1, Prof. dr. ing. Luige VLĂDĂREANU, Buget IMSAR: 189.000 euro. **Ionel-Alexandru Gal** membru în echipa de cercetare. Resurse financiare atrase prin grant: Logistică - Mobilitati: 4.000 Euro.	4.000 Euro	4
	2.	Proiect RABOT - Real-time adaptive networked control of rescue robots, 7th Framework Program for Research, Project Marie Curie, International Research Staff Exchange Scheme (IRSES) Project No. 318902, Program: FP7-PEOPLE-2012-IRSES; MARIE CURIE ACTIONS, Perioada: 2012 – 2016. Director proiect IMSAR: Cercetător ştiinţific gr. 1, Prof. dr. ing. Luige VLĂDĂREANU, Buget IMSAR: 109.200 euro. **Ionel-Alexandru Gal** membru în echipa de cercetare. Resurse financiare atrase prin grant: Logistică - Mobilitati: 2.100 Euro.	2.100 Euro	2,1
	3.	Proiect: MultiMonD - Platformă de sisteme inteligente multiagent pentru monitorizarea calității apei pe sectorul românesc al Dunării și Deltei Dunării. Cod proiect: PNIII-P1-1.2-PCCDI-2017-0637/2018;CCCDI-UEFISCDI - nr. 033/2018. Perioada: 2018 – 2020. Director proiect: Cercetător ştiinţific gr. 1, Prof. dr.	3.384 Euro	3,384

		ing. Luige VLĂDĂREANU, Buget IMSAR: 798.024 RON. **Ionel-Alexandru Gal** membru în echipa de cercetare. Resurse financiare atrase prin grant: Salarii: 15.750 lei / 3.384 Euro (calculat la valoarea medie anuala pe 2018)		
	4.	Proiect: Rehabilitation Robot - Joint Laboratory of Intelligent Rehabilitation Robot. Cod proiect: Collaborative research agreement between Yanshan University, China and Romanian Academy by IMSAR, RO, no. KY201501009, Perioada: 2016 – 2018. Director proiect: Cercetător ştiinţific gr. 1, Prof. dr. ing. Luige VLĂDĂREANU. Buget IMSAR: 34.804 EURO. **Ionel-Alexandru Gal** membru în echipa de cercetare. Resurse financiare atrase prin grant: Logistică – deplasări, participari conferințe, diseminare: 2.000 Euro.	2.000 Euro	2
	5.	Proiect: VIPRO - Platforma robot versatilă, inteligentă, portabilă cu sisteme de control în rețele adaptive pentru roboți de salvare. Cod proiect: PN-II-PT-PCCA-2013-4-2009; Contract UEFISCDI nr. 009/2014, Perioada: 2014 – 2017. Director proiect: Cercetător ştiinţific gr. 1, Prof. dr. ing. Luige VLĂDĂREANU, Buget IMSAR: 1.235.000 lei / 275.000 Euro. **Ionel-Alexandru Gal** membru în echipa de cercetare. Resurse financiare atrase prin grant: 170.163 lei / 38.281 Euro (calculat la valoarea medie anuala pe 2015)	38.281 Euro	38,281
	6.	Environmentally friendly and durable metal constructions through efficient manufacturing technologies TOP MetEco AMBIENT, 2016-2018. SMIS 105188-975, contract nr. 107/09-09-2016, Programul Operațional Competitivitate (POC), Domeniul proiectului: Eco-Nano-Tehnologii si Materiale, finantat de UEFISCDI Romania. Director proiect: Cercetător ştiinţific gr. 1, Prof. Luige Vladareanu. Buget proiect 6.369.545 Lei. **Ionel-Alexandru Gal** membru în echipa de cercetare. Resurse financiare atrase prin grant: 156.258 lei / 33.484 Euro (calculat utilizand grila BNR de medii lunare).	33.848 Euro	33,848
			Punctaj parțial – S2	**83,613**
			TOTAL A3.1	**83,613**

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

Subcategorie	Nr. Crt.	Congres/Conferință/Workshop internațional	Punctaj Realizat
N5 = nr.	1.	**Ionel-Alexandru GAL**, Luige VLADAREANU, Hongo WANG, Marius PANDELEA, Niu JIANYE, "Decision and control for hybrid fire-fighting robots", The Annual Symposium of the Institute of Solid Mechanics (**SISOM 2018**), ISSN 2344-5637.	1
	2.	**Ionel-Alexandru Gal**, Luige Vladareanu, Octavian Melinte and Yongfei Feng, „Simulation and control of a new mechanical structure for induction hardening of metallic profiles using virtual tools", The Annual Symposium of the Institute of Solid Mechanics (**SISOM 2017**), ISSN 2344-5637.	1
	3.	**Ionel-Alexandru Gal**, Luige Vladareanu, Oana Chenaru, Gelu Florea, Catalin-Eugen Simion, "3D modeling of mobile robots in virtual reality environment using Blender and Unity applications integrated in VIPRO Platform", The Annual Symposium of the Institute of Solid Mechanics (**SISOM 2016**), ISSN 2344-5637.	1
	4.	**Ionel-Alexandru Gal**, Nicolae Pop, Victor Vladareanu, Mihaiela Iliescu, Daniel Mitroi and Luige Vladareanu, "Applications of the Virtual Intelligent Portable VIPRO Platform for 3D Contact Problems with Friction in the Humanoid Robots Control", The 6th International Conference Computational Mechatronics and Virtual Engineering, (**COMEC 2015**), 15-16 October 2015, Braşov, Romania, pg. 191-196, ISSN: 2457-8541.	1
	5.	**Ionel-Alexandru Gal**, Vladareanu L, Hongnian Yu, Hongbo Wang, Mingcong Deng, „Advanced intelligent walking robot control through sliding motion control and bond graphs methods", Advanced Mechatronic Systems (**ICAMechS 2015**), 2015 International Conference on, 22-24 Aug. 2015, Beijing, China,, pg. 36 – 41, DOI: 10.1109/ICAMechS.2015.7287125, INSPEC Accession Number: 15489961, Publisher: IEEE, ISSN 2325-0682.	1
	6.	Vladareanu, L, **Ionel-Alexandru Gal**, Hongnian Yu, Mincong Deng, "Improvement of the walking robot dynamic stability using the DSmT and the neutrosophic logic" in Advanced Mechatronic Systems (**ICAMechS 2014**), 2014 International Conference, pp.43-48, 10-12 Aug. 2014, doi: 10.1109/ICAMechS.2014.6911621, ISSN: 2325-0682.	1
	7.	**Ionel-Alexandru Gal**, Luige Vladareanu, „Sliding Mode Control with Bond Graph Modeling Applied on a Robot Leg", Proceedings of the 2014 International Conference on Circuits, Systems and Control (**CSC 2014**), Interlaken, Switzerland February 22-24, 2014, pg. 40-45, ISBN: 978-1-61804-216-3.	1
	8.	Bruja A., Vladareanu L., **Ionel-Alexandru Gal**, Wang H., Yu H., Liu J. "The stability performances improvement through kinematic and dynamic modeling of the hopping robots", In 2014 UKACC International Conference on Control (**CONTROL 2014**) pp. 492-497, Iulie 2014. IEEE, DOI: 10.1109/CONTROL.2014.6915189, Electronic ISBN: 978-1-4799-5011-9.	1
	9.	**Ionel-Alexandru Gal**, Luige Vladareanu, Hongnian Yu, „Applications of Neutrosophic Logic Approaches in "RABOT" Real Time Control", The Annual Symposium of the Institute of Solid Mechanics (**SISOM 2013**), presented paper, ISSN 2344-	1

		5637.	
	10.	Nicolae Pop, Luige Vladareanu, **Ionel-Alexandru Gal**, "The extension real time control method for restoring the robot equilibrium position", Proceedings of the 1st International Conference on Mechanical and Robotics Engineering (**MREN 2013**), pp. 137-142, ISBN: 978-1-61804-185-2, Atena, Grecia 2013.	1
	11.	**Ionel-Alexandru Gal**, Radu Ioan Munteanu, Octavian Melinte, Luige Vladareanu, „A New Approach of Sliding Motion Robot Control using Bond Graph", The 8th International Symposium On Advanced Topics In Electrical Engineering (**ATEE 2013**), Editura Printech, ISSN: 2068-7966, Bucureşti, România, doi: 10.1109/ATEE.2013.6563515.	1
	12.	Luige Vlădăreanu, Nicolae Pop, **Ionel-Alexandru Gal**, Mingcong Deng , „The 3D elastic quasi-static contact applied to robots control", International Conference on Advanced Mechatronic Systems (**ICAMechS 2013**), Henan University of Science and Technology, Luoyang, China-Japonia, 2013, ISSN: 2325-0682, doi: 10.1109/ICAMechS.2013.6681699.	1
	13.	**Ionel-Alexandru Gal**, Luige VLADAREANU, Mihai S. Munteanu, Octavian MELINTE, „PID sliding motion control by using fuzzy adjustment", The Annual Symposium of the Institute of Solid Mechanics (**SISOM 2012**), ISSN 2344-5637.	1
	14.	**Ionel-Alexandru Gal**, „Hybrid force-position control for manipulators with 4 degrees of freedom", Proceedings of the 15th International Conference on Systems (part of the 15th **CSCC 2011** multiconference), Recent Researches in System Science, Corfu Island, Grecia, Iulie 14-16, 2011, pag: 358-363, ISBN: 978-1-61804-023-7, ISSN: 1792-4235.	1
	15.	**Ionel-Alexandru Gal**, O.Melinte, D.Marin, C.Secară, „The end-effector force-position performance improvement for 4 DOF robots", The Annual Symposium of the Institute of Solid Mechanics (**SISOM 2011**), presented paper, ISSN 2344-5637.	1
	16.	Octavian Melinte, **Ionel-Alexandru Gal**, „Bond graph modelling for haptic interface robot control", Proceedings of the European Computing Conference (**ECC 2011**), Paris, France, April 28-30, 2011, pag: 364-369, ISBN: 978-960-474-297-4.	1
	17.	**Ionel-Alexandru Gal**, Luige Vladareanu, Octavian Melinte, „Modular Walking Robots Control For Circular Movement Around Its Own Axis", The Annual Symposium of the Institute of Solid Mechanics (**SISOM 2010**), presented paper, ISSN 2344-5637	1
	18.	Luige Vladareanu, Ion Ion, **Ionel-Alexandru Gal**, et al. „The Real Time Control of Modular Walking Robot Stability", ISI Proceedings of the 8th International Conference on Applications of Electrical Engineering (**AEE 2009**), Houston, USA, pag. 179-186, ISSN: 1790-5117, ISBN: 978-960-474-072-7.	1
	19.	Luige Vladareanu, Lucian M. Velea, **Ionel-Alexandru Gal**, et.al, „Real Time Control of the Modular Structures through Distributed and Decentralized Systems", The Annual Symposium of the Institute of Solid Mechanics (**SISOM 2009**), ISSN 2344-5637.	1
	20.	Luige Vladareanu, Ion Ion, **Ionel-Alexandru Gal**, et al. „A New Method for Real Time Control of Actuators in Continuous Flux",	1

		ISI Proceedings of the 9th International Conference on Automation & Information: Theory and Advanced Technology (**ICAI 2008**), Editor: Luigi Vladareanu, pag. 303-308, ISBN: 978-960-6766-77-0, ISSN 1790-5117.	
	21.	SMOOTH INTERNATIONAL WORKSHOP – Organizat de: Yanshan University, Qinhuangdao, Hebei, China la data de 08.03.2018. **Ionel-Alexandru Gal** a participat cu următoarele prezentări: 1. 3D models of mobile robots in virtual reality environment using Blender and Unity applications. 2. Virtual simulation of a robot with 5DOF for induction hardening using Unity3D.	1
	22.	SMOOTH INTERNATIONAL WORKSHOP – Organizat de: State Key Laboratory of Management and Control for Complex Systems. Institute of Automation, Chinese Academy of Sciences, Beijing, Hebei, China la data de 22.03.2018. **Ionel-Alexandru Gal** a participat cu următoarele prezentări: 1. 3D models of mobile robots in virtual reality environment using Blender and Unity applications. 2. Virtual simulation of a robot with 5DOF for induction hardening using Unity3D.	1
		TOTAL A3.2	**22**

Categoria A3.3. Citări în publicații BDI (se exclud autocitările)

Subcategorie	**Nr. Crt.**	**Citări Articole**	**Punctaj Realizat**
C = nr. citări + suma factorilor de impact al publicațiilor WOS în care apar citările.	1.	*Articolul citat:* **Gal Ionel-Alexandru**, Danut Bucur, Luige Vladareanu. "DSmT Decision-Making Algorithms for Finding Grasping Configurations of Robot Dexterous Hands." Symmetry-Basel (20738994) 10.6 (2018). WOS:000436283000018. (IF/2017: **1.256**) *Citări:* 1. Ye, J., & Cui, W. (2019). Neutrosophic Compound Orthogonal Neural Network and Its Applications in Neutrosophic Function Approximation. Symmetry, 11(2), 147; DOI:10.3390/sym11020147 (IF/2017: **1.256**). 2. Smarandache, F., Zhang, X., & Ali, M. (2019). Algebraic Structures of Neutrosophic Triplets, Neutrosophic Duplets, or Neutrosophic Multisets, Symmetry 2019, 11(2), 171; DOI:10.3390/sym11020171, (IF/2017: **1.256**).	4,512
	2.	*Articolul citat*: **Ionel-Alexandru Gal**, Luige Vladareanu, Radu I. Munteanu. "Sliding motion control with bond graph modeling applied on a robot leg." Rev. Roum. Sci. Techn.–Électrotechn. et Énerg 60.2 (2015): 215-224. WOS:000355067400011. (IF/2017: **1,114**) *Citări*: 1. Zohaib, Muhammad, Jamshed Iqbal, And Syed Mustafa Pasha. "A novel goal-oriented strategy for mobile robot navigation without sub-goals constraint.", Rev. Roum. Sci. Techn.–Électrotechn. et Énerg 63.1, WOS:000430897800018. (IF/2017: **1,114**).	6,342

		2. Khan, Owais, et al. "On the derivation of novel model and sophisticated control of flexible joint manipulator." Rev. Roum. Sci. Techn.–Électrotechn. et Énerg 62.1 (2017): 103-108. WOS:000399629400019. (IF/2017: **1,114**). 3. Chiriţă, Doiniţa, et al. "Liquid level control for industrial three tanks system based on sliding mode control.", Rev. Roum. Sci. Techn.–Électrotechn. et Énerg 60.4 WOS:000365935800010. (IF/2017: **1,114**).	
	3.	*Articolul citat:* Vladareanu, L., **Ionel-Alexandru Gal**, Yu, H., & Deng, M. (2015). Robot control intelligent interfaces using the DSmT and the neutrosophic logic. International Journal of Advanced Mechatronic Systems, 6(2-3), 128-135, ISSN: 17568412, DOI: 10.1504/IJAMECHS.2015.070710 (BDI SCOPUS). *Citări:* 1. Can, M. S., & Ozguven, O. F. (2018). Fuzzy PID Control by Grouping of Membership Functions of Fuzzy Antecedent Variables with Neutrosophic Set Approach and 3-D Position Tracking Control of a Robot Manipulator. Journal of Electrical Engineering & Technology, 13(2), 969-980, WOS:000428478300049 , (IF/2017: **0,597**)	1,597
	4.	*Articolul citat*: Pop, N., Vladareanu, L., Popescu, I. N., Ghiţă, C., **Gal Ionel-Alexandru**, Cang, S., ... & Deng, M. (2014). „A numerical dynamic behaviour model for 3D contact problems with friction". Computational Materials Science, 94, 285-291. WOS:000342360000034. (IF/2016: **2,292**) *Citări*: 1. Papacharalampopoulos, A., P. Aivaliotis, and S. Makris. "Simulating robotic manipulation of cabling and interaction with surroundings." The International Journal of Advanced Manufacturing Technology (2018): 1-11. WOS:000430539100057. (IF/2017: **2,601**) 2. Cao, Junying, et al. "A mixed Legendre-Galerkin spectral method for the buckling problem of simply supported Kirchhoff plates." Boundary Value Problems 2017.1 (2017): 34. WOS:000397146100004 (IF/2017: **1,156**) 3. Iliescu, Mihaiela. "Multi-axes mechatronic system for printing ultrathin layers of perovskite solar cells: Prototype design and manufacture." Software, Knowledge, Information Management & Applications (SKIMA), 2016 10th International Conference on. IEEE, 2016. WOS:000403599100052. 4. Vlădăreanu, L., Smarandache, F., Ali, M., Vlădăreanu, V., & Deng, M. (2016, November). „Robot system identification using 3D simulation component applied on VIPRO platform". In Advanced Mechatronic Systems (ICAMechS), 2016 International Conference on (pp. 406-411). IEEE. WOS:000399457100072. 5. Vladareanu, V., Dumitrache, I., Vladareanu, L., Sacala, I. S., Tont, G., & Moisescu, M. A. (2015). „Versatile intelligent portable robot control platform based on cyber physical systems principles". Stud. Informat. Control,	15,777

		24(4), 409-418. WOS:000366543700005. (IF/2017: **1,020**) 6. Vladareanu, L., Spirleanu, C., Iliescu, M., Yu, H., Deng, M., Guo, W., & Gao, F. (2015, August). „Versatile Intelligent Portable Robot Platform for flexible robotic cells with AGV". In Advanced Mechatronic Systems (ICAMechS), 2015 International Conference on (pp. 42-49). IEEE. WOS:000380467100009. 7. Vladareanu, V., Boscoianu, C., Munteanu, R. I., Yu, H., & Vladareanu, L. (2015, May). „Dynamic control of a walking robot using the versatile intelligent portable robot platform". In Control Systems and Computer Science (CSCS), 2015 20th International Conference on (pp. 38-45). IEEE. WOS:000380375200006. 8. Spirleanu, C., Vladareanu, L., & Deng, M. (2015, May). „Positioning control through command messages inside a flexible robotic cell with AGV". In Control Systems and Computer Science (CSCS), 2015 20th International Conference on (pp. 687-692). IEEE. WOS:000380375200100. 9. Boscoianu, M., Cioaca, C., Vladareanu, V., & Boscoianu, C. E. (2015). „An Active Support Instrument for Innovation in Deep Uncertainty" the Strategic Management Ingredients in Robotics and Mechatronics. Procedia Computer Science, 65, 210-217. WOS:000373831000024. 10. Vladareanu, V., Munteanu, R. I., Mumtaz, A., Smarandache, F., & Vladareanu, L. (2015). „The optimization of intelligent control interfaces using Versatile Intelligent Portable Robot Platform". Procedia Computer Science, 65, 225-232. WOS:000373831000026. 11. Migdalovici, M., Vlădăreanu, L., Baran, D., Vlădeanu, G., & Radulescu, M. (2015). „Stability Analysis of the Walking Robots Motion". Procedia computer science, 65, 233-240. WOS:000373831000027.	
	5.	*Articolul citat:* Bruja A., Vladareanu L., **Ionel-Alexandru Gal**, Wang H., Yu H., Liu J. "The stability performances improvement through kinematic and dynamic modeling of the hopping robots", In 2014 UKACC International Conference on Control (CONTROL) (pp. 492-497). (Iulie 2014). IEEE, DOI: 10.1109/CONTROL.2014.6915189. *Citări:* 1. Migdalovici, M., Vladareanu, L., Yu, H., Pop, N., Iliescu, M., Vladareanu V., Baran D. Vladeanu, G., "The walking robots critical position of the kinematics or dynamic systems applied on the environment model". International Journal of Engineering and Technology (UAE/IJET), 7(2), 134-137, 2018, ISSN: 2227524X, DOI: 10.14419/ijet.v7i2.28.12896 (BDI SCOPUS).	1
	6.	*Articolul citat:* Liu, J., Wang, H., Yu, H., Zhang, L., Vladareanu, L., Bruja, A., & **Ionel-Alexandru Gal**, "Design of a new solution for the wheeled hopping robot". In Control (CONTROL), 2014 UKACC International Conference on (pp. 720-724). (Iulie 2014). IEEE, WOS:000352626000123. *Citări:*	1

		1. Giardina, F., & Iida, F. (2016, June). Simulation of forward hopping dynamics in robots and animals using a template with a circular foot and impulsive actuation. In Biomedical Robotics and Biomechatronics (BioRob), 2016 6th IEEE International Conference on (pp. 7-12). IEEE, WOS:000392266900002.	
	7.	*Articolul citat*: Vladareanu, L., Yu, H., **Gal Ionel-Alexandru**, & Deng, M. (2014, August). „Improvement of the walking robot dynamic stability using the DSmT and the neutrosophic logic". In Advanced Mechatronic Systems (ICAMechS), 2014 International Conference on (pp. 43-48). IEEE. WOS:000361466100009. *Citări*: 1. Elbagoury, B. M., Salem, A. B. M., & Vladareanu, L. (2016, November). „Intelligent adaptive precrash control for autonmous vehicle agents (CBR Engine & hybrid A∗ path planner)". In Advanced Mechatronic Systems (ICAMechS), 2016 International Conference on (pp. 429-436). IEEE. WOS:000399457100076.	1
	8.	*Articolul citat:* **Ionel-Alexandru Gal**, Luige Vladareanu, „Sliding Mode Control with Bond Graph Modeling Applied on a Robot Leg", Proceedings of the 2014 International Conference on Circuits, Systems and Control (CSC 2014), Interlaken, Switzerland February 22-24, 2014, pg. 40-45, ISBN: 978-1-61804-216-3. *Citări:* 1. Gola, B., Kopec, J., Rysiński, J., & Zawislak, S. (2017). Bond Graph Model of a Robot Leg. In Graph-Based Modelling in Engineering (pp. 69-80). Springer, Cham. DOI: 10.1007/978-3-319-39020-8, ISBN:978-3-319-39020-8; 978-3-319-39018-5, ISSN: 2211-0984, WOS:000411238300006.	1
	9.	*Articolul citat*: Vladareanu, L., Ion, I., Velea, L. M., Mitroi, D., & **Gal Ionel-Alexandru**. (2009). „The real time control of modular walking robot stability". In Proceedings of the 8th International Conference on Applications of Electrical Engineering (AEE'09), Houston, USA (pp. 179-186). WOS:000266634900028. *Citări*: 1. Vlădăreanu, Luige; Curaj, Adrian; Munteanu, Radu I. „Complex walking robot kinematics analysis and plc multi-tasking control". Revue Roumaine des Sciences Techniques–Série Électrotechnique et Énergétique 57.1, 2011, 10. WOS:000303096800010. (IF/2017: **1,114**).	2,114
	10.	*Articolul citat*: Vladareanu, L., Ion, I., Velea, L. M., Munteanu, M. S., Melinte, O., & **Gal Ionel-Alexandru** (2008, June). „A New Method for Real Time Control of Actuators in Continuos Flux". In Proceedings of the 9th WSEAS International Conference on AUTOMATION and INFORMATION (ICAI08), Bucharest, Romania (pp. 303-308). WOS:000258497000050.	2

		Citări: 1. Vlădareanu, L., Sandru, O. I., Velea, L. M., & Yu, H. (2009). „Actuator control in continuous flux using Winer filters". WOS:000264992200011. 2. Munteanu M.S., Munteanu R.A., „Leadership in higher education by development of poles of excellence in research". 6th International Seminar on the Quality Management in Higher Education. Tulcea, Romania, 2010, pp. 211-214. WOS:000288291800054.	
			TOTAL A3.3 **36,342**

Rezultatul auto-evaluării și punctajul obținut, comparativ cu punctajul minimal și obligatoriu pentru gradul de cercetător științific gradul 2

Condiții minimale și obigatorii pentru Cercetător Stiințific Gradul 2				**Punctaj Standard Minim Prevăzut**	**Punctaj Realizat**
A1	Nu se aplică			-	-
A2	A2.1 + A2.3	P1+P2	Articole și publicații științifice indexate Web of Science Thomson Reuters (WOS) + Brevete de invenții indexate	5	6,021
		P1	Articole și publicații științifice indexate Web of Science Thomson Reuters (WOS)	3	3,822
	A2.2	N3	Articole și publicații științifice BDI neincluse la A2.1	8	13
		N3.1	Articole și publicații științifice BDI neincluse la A2.1 - Autor corespondent/prim autor	3	3
	A2.4 + A2.5	N4	Produse, tehnologii, platforme și servicii inovative (validate conform procedurilor specifice unităților de învățământ superior sau de cercetare) + Monografii/cărți de specialitate, format tipărit/electronic (min. 100 pag.)	1	1
		N4.3	Monografii/cărți de specialitate, format tipărit/electronic (min. 100 pag.) – Coordonator/prim autor	0	1
A3	A3.1	S1+S2	Atragere resurse financiare prin granturi/proiecte/contract terți	10	83,613
	A3.2	N5	Prezentarea/Diseminarea rezultatelor: prezență la manifestări științifice în calitate de autor/co-autor de lucrări, profesor invitat	5	22
	A3.3	C	Citări în publicații BDI (se exclud autocitările)	10	36,342
				PUNCTAJ TOTAL	**169,798**

Data: 20.02.2019 Semnătura

Dr. Ing Gal Ionel-Alexandru