ACADEMIA ROMÂNĂ
SCOSAAR

Anexa nr.3

AVIZAT.
Director SCOALA DOCTORALĂ
219 | 27.08.2026

1. Îndeplinirea standardelor IOSUD superioare standardelor minimale naționale* [ ] DA [ ] NU
2. Îndeplinirea standardelor IOSUD egale standardelor minimale naționale* [X] DA [ ] NU

*se va alege una dintre variante

FIȘA DE ÎNDEPLINIRE A STANDARDELOR IOSUD

Condiții minimale și obligatorii pentru Cercetător Științific Gradul 1				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	10	25,47
		P1	Articole și publicații științifice indexate Web of Science Thomson Reuters (WOS)	6	22,84
	A2.2	N3	Articole și publicații științifice BDI neincluse la A2.1	10	15
		N3.1	Articole și publicații științifice BDI neincluse la A2.1 - Autor corespondent/prim autor	5	5
	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.)	2	2
		N4.3	Monografii/cărți de specialitate, format tipărit/electronic (min. 100 pag.) – Coordonator/prim autor	1	2
A3	A3.1	S1+S2	Atragere resurse financiare prin granturi/proiecte/contract terți	50	194,87
	A3.2	N5	Prezentarea/Diseminarea rezultatelor: prezență la manifestări științifice în calitate de autor/co-autor de lucrări, profesor invitat	10	26
	A3.3	C	Citări în publicații BDI (se exclud autocitările)	25	103,8
				PUNCTAJ TOTAL	**396,98**

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Anexa nr.3

AVIZAT,

Director ŞCOALA DOCTORALĂ

1. Îndeplinirea standardelor IOSUD superioare standardelor minimale naţionale* [ ] DA [ ] NU
2. Îndeplinirea standardelor IOSUD egale standardelor minimale naţionale* [X] DA [ ] NU

*se va alege una dintre variante

FIŞA DE ÎNDEPLINIRE A STANDARDELOR IOSUD

Condiţii minimale şi obligatorii pentru Cercetător Ştiinţific Gradul 1				**Punctaj Standard Minim Prevăzut**	**Punctaj Realizat**
A1	Nu se aplică			-	-
A2	A2.1 + A2.3	P1+P2	Articole şi publicaţii ştiinţifice indexate Web of Science Thomson Reuters (WOS) + Brevete de invenţii indexate	10	25,47
		P1	Articole şi publicaţii ştiinţifice indexate Web of Science Thomson Reuters (WOS)	6	22,84
	A2.2	N3	Articole şi publicaţii ştiinţifice BDI neincluse la A2.1	10	15
		N3.1	Articole şi publicaţii ştiinţifice BDI neincluse la A2.1 - Autor corespondent/prim autor	5	5
	A2.4 + A2.5	N4	Produse, tehnologii, platforme şi servicii inovative (validate conform procedurilor specifice unităţilor de învăţământ superior sau de cercetare) + Monografii/cărţi de specialitate, format tipărit/electronic (min. 100 pag.)	2	2
		N4.3	Monografii/cărţi de specialitate, format tipărit/electronic (min. 100 pag.) – Coordonator/prim autor	1	2
A3	A3.1	S1+S2	Atragere resurse financiare prin granturi/proiecte/contract terţi	50	194,87
	A3.2	N5	Prezentarea/Diseminarea rezultatelor: prezenţă la manifestări ştiinţifice în calitate de autor/co-autor de lucrări, profesor invitat	10	26
	A3.3	C	Citări în publicaţii BDI (se exclud autocitările)	25	103,8
				PUNCTAJ TOTAL	**396,98**

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FIŞA DE VERIFICARE

a îndeplinirii standardelor IOSUD

Activitatea de cercetare ştiinţifică, dezvoltare tehnologică şi inovare – CID (A2)

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

Subcategorie	Nr. Crt.	Articol	Punctaj Realizat
P1.1 = 2*(0.2+FI)	1.	**Ionel-Alexandru Gal,** Alexandra-Cătălina Ciocîrlan, Mihai Mărgăritescu, "State Machine-Based Hybrid Position/Force Control Architecture for a Waste Management Mobile Robot with 5DOF Manipulator" Appl. Sci. 11, no. 9: 4222. 2021. https://doi.org/10.3390/app11094222. eISSN2076-3417. WOS:000649905700001, IF:2.838/2021	6,076
	2.	**Ionel-Alexandru Gal,** Alexandra-Cătălina Ciocîrlan, Luige Vladareanu, "The Hybrid Position/Force Walking Robot Control Using Extenics Theory and Neutrosophic Logic Decision" Sensors, 22(10), p.3663. 2022. ISSN: 1424-8220, https://doi.org/10.3390/s22103663, https://www.mdpi.com/1424-8220/22/10/3663, WOS:000803457000001. IF:3.9/2022	8,2
	3.	**Ionel-Alexandru Gal,** 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:2.2/2024	4,8
	4.	**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:1.1/2024	2,6
		Punctaj parţial – P1.1	**21,676**
P1.2	1.		
		Punctaj parţial – P1.2	**0**
P1.3	1.		
		Punctaj parţial – 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: 3.3/2024)	1,167
		Punctaj parţial – P1.4	**1,167**
		TOTAL A2.1	**22,843**

Categoria A2.2. Articole şi publicaţii ştiinţifice 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, DOI: 10.1109/ICAMechS.2015.7287125	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, DOI: 10.1109/ATEE.2013.6563515	1
	3.	**Ionel-Alexandru Gal**, Luige Vladareanu, Victor Vladareanu, Daniel-Octavian Melinte, "Industry 4.0 Renewable Energy Power Plant Architecture using Next Generation Service Interface Linked Data Connectors", 2023 8th International Conference on Mathematics and Computers in Sciences and Industry (MCSI), Athens, Greece, 2023, pp. 155-160, doi: 10.1109/MCSI60294.2023.00033, Publisher: IEEE, ISBN 979-835034165-2, DOI: 10.1109/MCSI60294.2023.00033	1
	4.	**Ionel-Alexandru Gal**, Vladareanu Luige, and Shuang Cang. "Virtual simulation of a mechanical structure with 5DOF for induction hardening using 3D", International Journal of Engineering and Technology (UAE) 7.2 (2018): 114-118. DOI: 10.14419/ijet.v7i2.28.12891.	1
	5.	**Ionel-Alexandru Gal**, Vladareanu Luige, and Shuang Cang. (2018) "Advanced Intelligent Robot Control Interfaces for the Virtual Reality Simulation Applied to the Induction Hardening Process". Emerging Technologies for Health and Medicine: Virtual Reality, Augmented Reality, Artificial Intelligence, Internet of Things, Robotics, Industry 4.0, pp. 137-152, DOI: 10.1002/9781119509875.ch11, 978-111950987-5, 978-111950985-1.	1
		Punctaj parțial – N3.1	**5**
N3.2 = nr.	1.	Vladareanu, Luige, Victor Vladareanu, **Ionel-Alexandru Gal**, Daniel-Octavian Melinte, Vlad Grosu, and Mihai Radulescu. "IoT Open Architecture Ground Control System by Adaptive Fusion Intelligent Interfaces for Robot Vectors Applied to 5G Network Densification Era." In Future Access Enablers for Ubiquitous and Intelligent Infrastructures: 4th EAI International Conference, FABULOUS 2019, Sofia, Bulgaria, March 28-29, 2019, Proceedings 283, pp. 118-123. Springer International Publishing, 2019, WOS:000552334400012.	1
	2.	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

	3.	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
	4.	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. WOS:000352626000084	1
	5.	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
	6.	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
	7.	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
	8.	Vladareanu, Luige, Victor Vladareanu, **Alexandru I. Gal**, Octavian D. Melinte, Marius Pandelea, Mihai Radulescu, and Alexandra-Catalina Ciocîrlan. "Digital Twin in 5G Digital era developed through cyber physical systems." IFAC-PapersOnLine 53, no. 2 (2020): 10885-10890, WOS:000652593100335	1
	9.	Vlădăreanu, Luige, **Alexandru I. Gal**, Octavian D. Melinte, Victor Vlădăreanu, Mihaiela Iliescu, Adrian Bruja, Yongfei Feng, and Alexandra Ciocîrlan. "Robot Digital Twin towards Industry 4.0." IFAC-PapersOnLine 53, no. 2 (2020): 10867-10872, WOS:000652593100332.	1
	10.	Alexandra Ciocîrlan, Victor Vladareanu, Ana Maria Travediu, **Ionel-Alexandru Gal**, Octavian Melinte, Mihai Radulescu and Luige Vladareanu, „Improved Performance of the Autonomous Mobile Robot Vectors by New Intelligent Control Interfaces", International Conference on Control Systems and Computer Science - CSCS23 May 26-28, 2021, pp. 302-307. IEEE, SCOPUS, 2021, DOI: https://doi.org/10.1109/CSCS52396.2021.00056	1
		Punctaj parțial – N3.2	**10**
		TOTAL A2.2	**15**

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Categoria A2.3. Brevete de invenţii indexate

Subcategorie	Nr. Crt.	Brevet	Punctaj Realizat
P2.1 = punctaj calculat ca pentru A2.1 şi FI=2 Co-autor; Nr autori >=4	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.	0,367
	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 parţial – P2.1	**2,2**
P2.2 = punctaj calculat ca pentru A2.1 şi FI=0,5 Co-autor; Nr autori >=4	1.	Vlădăreanu Luige, Velea Lucian Marius, Vlădăreanu Victor, Munteanu Mihai Stelian, Tont Gabriela, Munteanu Radu Adrian, Siriteanu Tudor, Balaş Cornel, Tont Dan George, Melinte Daniel Octavian, **Gal Ionel Alexandru**. "Metodă şi dispozitiv pentru controlul dinamic al unui robot păşitor" ("Method and device for the dynamic control of a walking robot") Titular: Institutul De Mecanica Solidelor Al Academiei Române Numar brevet OSIM: 00125970; BOPI 1/2011	0,191
	2.	Munteanu Radu Ioan, Vladareanu Luige, Cai Wen, Yan Chunyan, Vlădăreanu Victor, **Gal Ionel Alexandru**, Munteanu Radu Adrian, Li Weihua, Smarandache Florentin "Metodă şi dispozitiv pentru control extins hibrid forţă-poziţie al sistemelor robotice şi mecatronice" ("Method and device for the extended hybrid force-position control of robotic and mechatronic systems")	0,233

		Titular: Institutul de Mecanica Solidelor al Academiei Române Numar brevet OSIM: 00128910; BOPI 9/2020	
			Punctaj parțial - P2.2	**0,424**
			TOTAL A2.3	**2,624**

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 forță-poziție în robotică", autor **Gal Ionel-Alexandru**, Editura Editgraph, ISBN: 978-606-663-732-9, 200 pagini, anul apariției 2019.	1
	2.	"Platformă Versatilă, Inteligentă, Portabilă cu Sisteme de Control în Timp Real al Roboților (Vol. 1)", autori **Ionel-Alexandru Gal**, Daniel-Octavian Melinte, Alexandra Cătălina Ciocîrlan, Editura Pim (Iași), ISBN: 978-606-13-8386-3, 164 pagini, anul apariției 2024.	1
		Punctaj parțial – N4.3	**2**
N4.4	1.		
		Punctaj parțial – N4.4	**0**
		TOTAL A2.5	**2**

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:	4.000 Euro	4

		Logistică - Mobilitati: 4.000 Euro.		
	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 calităţii apei pe sectorul românesc al Dunării şi 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. 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)	3.384 Euro	3,384
	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 conferinţe, diseminare: 2.000 Euro.	2.000 Euro	2
	5.	Proiect: VIPRO - Platforma robot versatilă, inteligentă, portabilă cu sisteme de control în reţele adaptive pentru roboţi 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:	38.281 Euro	38,281

		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)		
	6.	Proiect TOP MetEco AMBIENT: 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
	7.	Proiect SIRAMAND: Sisteme robotice autonome pentru managementul deşeurilor în contextul oraşului inteligent, Proiecte Complexe realizate în consorţii CDI, PN-III-P1-1.2-PCCDI-2017, SIRAMAND PN-III-P1-1.2-PCCDI-2017-0086, Director Partener IMSAR: Dr. ing. CS3 Dan Dumitriu, Buget IMSAR: 682.100 lei / 143.724 Euro (Calculat la valoarea medie anuala pe 2019). Ionel-Alexandru Gal membru în echipa de cercetare. Resurse financiare atrase prin grant: 49069 lei / 10130 Euro (calculat la valoarea medie anuala pe 2020)	10.130 Euro	10,13
	8.	Proiect CONSOLE: "Cybersecurity for Resilient Software Development", CONSOLE, Project No. 101128070, DIGITAL-ECCC-2022-CYBER-03-UPTAKE-CYBERSOLUTIONS, European Commission-EU eGrants, 2023-2026. Coordonator proiect: BitDefender SRL. Pateneri: AEGIS IT Research GMBH (DE), Cyberalytics Limited (CY), Idryma Technologias Kai Erevnas (GR), Security Labs Consulting Limited (IR), Eit Digital (BG), Apiroplus Solutions LTD (CY), Panepistimio Patron (GR), Charge Point SRL (RO), Ringhel Team SRL (RO). **Ionel-Alexandru Gal** este membru in proiect la partenerul Ringhel Team SRL. Resurse financiare atrase prin grant: 101130 euro	101.130 Euro	101,13
			Punctaj parțial – S2	**194,873**
			TOTAL A3.1	**194,873**

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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**, 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
	2.	**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
	3.	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
	4.	**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
	5.	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
	6.	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
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	15.	Luige Vladreanu, Victor Vladareanu, **Ionel-Alexandru Gal**, Daniel-Octavian Melinte, Vlad Grosu, Mihai Radulescu, "IoT Open Architecture Ground Control System by adaptive fusion intelligent interfaces for robot vectors applied to 5G network Densification Era", Presented at **FABULOS** Conference, 28-29 March **2019**, Sofia, Bulgaria, and published in International Conference on Future Access Enablers of Ubiquitous and	1

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	22.	Alexandra-Cătălina Ciocîrlan, Luige Vladareanu, **Ionel-Alexandru Gal**, Bianca Ghinoiu, L. Sang, and Y. Ning, Intelligent Control Systems for Motion Vectors of Autonomous Mobile Robots, 25th International Conference on Control Systems and Computer Science, CSCS25 - Control Systems	1
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	24.	Alexandra-Cătălina Ciocîrlan, Luige Vlădăreanu, **Ionel-**	1

		Alexandru Gal, Bianca Rodica Ghinoiu, Cristina Marilena Nițu, Marius Pandelea, Mihaiela Iliescu, „Robot vector operating system for localization and mapping". The Joint International Conference of the 3rd International Conference on Advanced Research in Engineering, CARE 2024, and the 7th International Conference on Mechanical Engineering, ICOME 2024, Craiova, Romania	
	25.	IMARS INTERNATIONAL **WORKSHOP** - Organizat de Professor Hongnian Yu, in data de 09-Mai-2025, la Merchiston Campus, Edinburgh Napier University, camera MER-09. **Ionel-Alexandru Gal** a participat cu următoarele prezentări: 1. IMSAR presentation for future joint research capabilities by Alexandru Gal 2. Smart wireless sensors routing protocol development aimed for smart wireless robot networks by Alexandru Gal 3. Humanoid robots developed in PABLO project - The urban delivery autonomous robots by Alexandru Gal	1
	26.	IMARS INTERNATIONAL **WORKSHOP** - Organizat de Profesor Vladareanu Luige, in data de 06-Iunie-2025, la PUI, Limoges, Franta, sala de conferinte. **Ionel-Alexandru Gal** a participat cu următoarele prezentări: 1. Humanoid robots developed in PABLO project - The urban delivery autonomous robots by Alexandru Gal	1
		TOTAL A3.2	**26**

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). IF:2.2/2024, punctaj: 3.2. 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). IF:2.2/2.24, punctaj: 3.2. 3. Carbone, G., Ceccarelli, M., Fabrizi, C., Varilone, P., & Verde, P. (2019). Effects of Voltage Dips on Robotic Grasping. Robotics, 8(2), 28, WOS:000475325600005, ISSN: 2218-6581. IF:3.3/2.24, punctaj: 4.3. 4. "Melinte, Daniel Octavian, Ana-Maria Travediu, and Dan N. Dumitriu. ""Deep convolutional neural networks object	16,9

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	9.	*Articolul citat:* **Ionel-Alexandru Gal**, Vladareanu Luige, Munteanu, R. I., Ciocîrlan, A., & Travediu, A. M. "Smart wireless sensors routing protocol development aimed for smart wireless robot networks". Acta Electroteh, 61, 1-7 (2020). *Citări:* 1. Singh, Kiran Jot, Anand Nayyar, Divneet Singh Kapoor, Nitin Mittal, Shubham Mahajan, Amit Kant Pandit, and Mehedi Masud. "Adaptive Flower Pollination Algorithm-based Energy Efficient Routing Protocol for Multi-robot Systems." IEEE Access (2021) IF:3.6/2024. IF:3.6/2024, punctaj: 4.6.	4,6
	10.	*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. *Citări*: 1. El Mesbahi, Myriam, Ahmed Tgarguifa, And Hanaa Hachimi. "Robots Morphologies And Communication Strategies Trade-Off In A Dynamic Multi-Robot	2,1

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	12.	*Articolul citat*: Vladareanu, Luige, Victor Vladareanu, **Ionel-Alexandru Gal**, Octavian D. Melinte, Marius Pandelea, Mihai Radulescu, and Alexandra-Catalina Ciocîrlan. "Digital Twin in 5G Digital era developed through cyber physical systems." IFAC-PapersOnLine 53, no. 2 (2020): 10885-10890. *Citări*: 1. Cheng, Jiangfeng, Yi Yang, Xiaofu Zou, and Ying Zuo. "5G in manufacturing: a literature review and future research." The International Journal of Advanced Manufacturing Technology (2022): 1-23, WOS:000767011600003. IF:3.1/2024, punctaj: 4.1. 2. Venancio Teixeira, Jônatas, Marcelo da Silva Hounsell, and Douglas Wildgrube Bertol. "How CPS and Autonomous Robots are Integrated to other I4. 0	12,7

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	13.	*Articolul citat*: **Ionel-Alexandru Gal**, Alexandra-Cătălina Ciocîrlan, Luige Vladareanu, "The Hybrid Position/Force Walking Robot Control Using Extenics Theory and Neutrosophic Logic Decision" Sensors, 22(10), p.3663. 2022. ISSN: 1424-8220, https://doi.org/10.3390/s22103663, https://www.mdpi.com/1424-8220/22/10/3663, WOS:000803457000001. *Citări*: 1. Darwish, Saad M., Mohamed A. Salah, and Adel A. Elzoghabi. "Identifying Indoor Objects Using Neutrosophic Reasoning for Mobility Assisting Visually Impaired People." Applied Sciences 13, no. 4 (2023): 2150. IF:2.5/2024, punctaj: 3.5.	3,5
		TOTAL A3.3	**103,8**

Candidat: GAL Ionel-Alexandru

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Semnătura: