FISA STANDARDE MINIMALE CONCURS CONFERENTIAR - DOMENIUL:INGINERIE MECANICA

Candidat: Conf. Dr. ing. Bogdan GHERMAN

Specificatie	Domeniul activitatilor	Indicator	Punctaj obtinut	Punctaj minim grila	**Procent realizat in raport cu punctajul minim pt conf. [%]**	Indicatori neindepliniti
Activitatea didactica/profesionala	A.1.1	N1	5.00	2.00	**250.00**	indicator indeplinit
		N1.1	1.00	1.00	**100.00**	indicator indeplinit
		N1.3	3.00	1.00	**300.00**	indicator indeplinit
	A.1.2	N2	6.00	4.00	**150.00**	indicator indeplinit
		N.2.1	6.00	2.00	**300.00**	indicator indeplinit
Activitatea de cercetare	A21+A2.3	P1+P2	45.54	10.00	**455.38**	indicator indeplinit
		P1	43.13	6.00	**718.88**	indicator indeplinit
	A2.2	N3	74.00	10.00	**740.00**	indicator indeplinit
		N3.1	11.00	5.00	**220.00**	indicator indeplinit
	A2.4+A2.5	N4	23.00	2.00	**1150.00**	indicator indeplinit
		N43	1.00	1.00	**100.00**	indicator indeplinit
Recunoasterea impactului activitatii	A3.1	S1+S2	590.52	50.00	**1181.04**	indicator indeplinit
	A3.2	N5	25.00	10.00	**250.00**	indicator indeplinit
	A3.3	C	1007.75	25.00	**4031.00**	indicator indeplinit
			1841.94	113.00	**1630.03**	

Data:

N.1.1 **Manuale suport de curs (conf. Fisei disciplinei)**

Format tiparit/electronic (minim 100 pagini)

Prim autor

Nr. Crt	Autorii	Nr. Autori	Titlul	Editura	Anul publicarii	ISBN	punctaj
1	Gherman, B., Vaida, C., Tucan, P., Pisla, D.	3	Medical robotics Vol. II: Innovative parallel robots for medical rehabilitation, coordinated by Prof. Dipl. Eng. Doina Liana Pisla, 204 pagini	Ed. Casa cărţii de ştiinţă, Cluj-Napoca	2023	978-606-17-2192-4	1.00
	Total						1.00

N1.2 **Manuale suport de curs (conf. Fisei disciplinei)**

coautor ***Format tiparit/electronic (minim 100 pagini)***

Nr. Crt	Autorii	Numar autori	Titlul	Editura	Anul publicarii	ISBN	punctaj
1	Tucan, P., Vaida, C., Gherman, B., Pisla, D.	4	Medical robotics Vol. I: Innovative Medical Parallel Robots for Oncology, coordinated by Prof. Dipl. Eng. Doina Liana Pisla	Ed. Casa cărţii de ştiinţă, Cluj-Napoca,	2023	978-606-17-2191-7	1.00
2							0.00
	Total						1.00

N1.3 **Manuale suport de curs (conf. Fisei disciplinei)**

Format electronic disponibil pe platforma univ/fac/dep -autor

Nr. Crt	Autorii	Adesa de site	Anul postarii	nr. Autori	punctaj
1	Bogdan Gherman, Calin Vaida, Doina Pisla	https://cester.utcluj.ro/educationandtraining.html	2014	1	1.00
2	Calin Vaida, Bogdan Gherman, Doina Pisla	https://cester.utcluj.ro/educationandtraining.html	2014	1	1.00
3	Bogdan Gherman, Calin Vaida, Paul Tucan, Doina Pisla	https://cester.utcluj.ro/educationandtraining.html	2014	1	1.00
	Total				3.00

1 Curs introductiv programarea si utilizarea calculatoarelor
2 Curs programarea calculatoarelor - Limbajul MATLAB
3 Curs programarea calculatoarelor - Limbajul C

N2.1 **Standuri de laborator (constructier/modernizari) certificate de directorul de departament**

Nr. Crt	Denumire stand/an constructie sau modernizare	Anul constructie/ modernizare	Punctal individual
1	Sistem robotic pentru conducerea laparoscopului in intervenții minim invazive (sistemul robotic PARMIS)	2010	1.00
2	Sistem robotic pentru conducerea instrumentelor active in intervenții minim invazive (sistemul robotic PARASURG 5M)	2011	1.00
3	Sistem robotic pentru tratamentul cancerului prin brahiterapie (sistemul robotic PARA-BRACHYROB)	2016	1.00
4	Sistem robotic pentru biopsia prostatei (sistemul robotic BIO-PROS1)	2017	1.00
5	Instrumente pentru diagnosticul si tratamentul cancerului: brahiterapie (6 ace), ablație prin radiofrecvență, biopsie	2017	1.00
6	Sistem robotic colaborativ YUMI: aplicații de înfiletare şi divertisment	2018	1.00
	Total		6.00

N3.1 **Articole si publicatii BDI (neincluse in A2.1)**
prim autor sau autor corespondent

Nr. crt.	Nume autori	Numar autori	Titlul lucrarii	Denumire Jurnal /ISSN	Volum /Numar	Anul publicarii	nr. pagini (de la .. pana la:)
1	Pisla, D., Gherman, B., Tucan, P.,Vaida, C., Govor, C., Plitea, N.	6	On the kinematics of an innovative parallel robotic system for transperineal prostate biopsy	2015 IFToMM World Congress Proceedings, IFToMM 2015		2015	
2	Pisla, D.; Plitea, N.; Gherman, B. G.; Vaida, C.; Pisla, A.; Suciu, M.	6	Kinematics and Design of a 5-DOF Parallel Robot Used in Minimally Invasive Surgery	ADVANCES IN ROBOT KINEMATICS: MOTION IN MAN AND MACHINE		2010	99-106
3	Pisla, D.; Gherman, B. G.; Suciu, M.; Vaida, C.; Lese, D.; Sabou, C.; Plitea, N.	7	On the Dynamics of a 5 DOF Parallel Hybrid Robot Used in Minimally Invasive Surgery	NEW TRENDS IN MECHANISM SCIENCE: ANALYSIS AND DESIGN	5	2010	691-699
4	Bogdan Gherman, Alexandru Banica, Paul Tucan, Calin Vaida, Tiberiu Antal, Doina Pisla	6	Inverse dynamic modeling of a parallel wrist rehabilitation robot towards an assistive control modality	2021 25TH INTERNATIONAL CONFERENCE ON SYSTEM THEORY, CONTROL AND COMPUTING (ICSTCC)		2021	284-289
5	Bogdan Gherman, Andrei Caprariu, Ferenc Puskas, Adrian Pisla, Tiberiu Antal, Doina Pisla	6	Evaluation and selection of a collaborative robot for a tuberculosis sample collection isolated booth	2021 25TH INTERNATIONAL CONFERENCE ON SYSTEM THEORY, CONTROL AND COMPUTING (ICSTCC)		2021	553-558
6	Bogdan Gherman, Laurentiu Nae, Adrian Pisla, Eduard Oprea, Calin Vaida, Doina Pisla	6	WisdomOfAge: Designing a Platform for Active and Healthy Ageing of Senior Experts in Engineering	ICT FOR HEALTH, ACCESSIBILITY AND WELLBEING, IHAW	1538	2021	18-30

7	Bogdan Gherman, Paul Tucan, Calin Vaida, Giuseppe Carbone, Doina Pisla	5	Novel Design of the ParReEx-Elbow Parallel Robot for the Rehabilitation of Brachial Monoparesis	NEW TRENDS IN MEDICAL AND SERVICE ROBOTICS	106	2022	38-45
8	Gherman, B Puskas, F Tucan, P Roman, C Pisla, A Vaida, C Birlescu, I Pisla, D	8	A Robotic-Assisted Sputum Collection Booth	ACTA TECHNICA NAPOCENSIS SERIES-APPLIED MATHEMATICS MECHANICS AND ENGINEERING	64(4)	2021	539-546
9	Nadas, I Gherman, B Albert, S Surducan, V Pop, N Carbone, G Banica, A Pisla, D	8	Innovative Development of a Parallel Robotic System for Lower Limb Rehabilitation	ACTA TECHNICA NAPOCENSIS SERIES-APPLIED MATHEMATICS MECHANICS AND ENGINEERING	64(1) SI	2021	387-394
10	Rus, G.; Nae, L.; Gherman, B.; Vaida, C.; Deriaz, M.; Oprea, E.; Pisla, D.	7	An Innovative Recommendation System for a Knowledge Transfer Matchmaking Platform	ICT FOR HEALTH, ACCESSIBILITY AND WELLBEING, IHAW 2022	1799	2023	162-176
11	Bogdan Gherman, Corina Radu, Andrei Caprariu, Nadim Al Hajjar, Calin Vaida, Andra Ciocan, Paul Tucan, Emil Mois, Doina Pisla	9	On the Stiffness Modelling of the ProHep-LCT Robotic Needle Insertion Instrument	Advances in Service and Industrial Robotics. RAAD 2023. Mechanisms and Machine Science	135	2023	245-252
	Total						

Punctaj individual
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N3.2 **Articole si publicatii BDI (neincluse in A2.1)**

co-autor

Nr. crt.	Nume autori	Numar autori	Titlul lucrarii	Denumire Jurnal /ISSN	Volum/ Numar	Anul publicarii	nr. pagini (de la .. pana la:)	Punctaj individual
1	Nadas, I., Pisla, D., Ceccarelli, M.,Vaida, C., Gherman, B. Tucan, P., Carbone, G.	7	Design of dual-arm exoskeleton for mirrored upper limb rehabilitation	Mechanisms and Machine Science	65	2019	303-311	1.00
2	Gherman, B., Birlescu, I., Puskas, F.,Pisla, A., Carbone, G., Tucan, P., Banica, A., Pisla, D.	8	A kinematic characterization of a parallel robotic system for lower limb rehabilitation	Mechanisms and Machine Science	59	2019	27-34	1.00
3	Vaida, C., Birlescu, I., Pisla, A., Carbone, G., Plitea, N., Ulinici, I., Gherman, B., Puskas, F., Tucan, P., Pisla, D.	10	RAISE - An innovative parallel robotic system for lower limb rehabilitation	Mechanisms and Machine Science	65	2019	293-302	1.00
4	Gherman, B., Vaida, C., Birlescu, I., Pisla, A., Tucan, P., Pisla, D.	6	Modelling and simulation of a robotic system for lower limb rehabilitation	ASME 2018 International Design Engineering Technical Conferences and Computers and Information in Engineering Conference, IDETC/CIE 2018; Quebec City; Canada;	5B-2018	2018		1.00
5	Gherman, B., Carbone, G., Plitea, N., Ceccarelli, M., Banica, A., Pisla, D.	6	Kinematic Design of a Parallel Robot for Elbow and Wrist Rehabilitation	Mechanisms and Machine Science	57	2018	147-154	1.00
6	Plitea, N., Gherman, B., Carbone, G., Ceccarelli, M., Vaida, C., Banica, A, Pisla, D., Pisla, A.	8	Kinematic analysis of an exoskeleton-based robot for elbow and wrist rehabilitation	Mechanisms and Machine Science	54	2018	424-433	1.00

7	Nadas, I.A., Pisla, D., Vaida, C., Gherman, B.G., Carbone, G.	5	Towards cost-oriented user-friendly robotic systems for post-stroke rehabilitation	Handbook of Research on Biomimetics and Biomedical Robotics	-	2017	99-141	1.00
8	Gherman, B., Plitea, N., Pisla, D.	3	An innovative parallel robotic system for transperineal prostate biopsy	Mechanisms and Machine Science	43	2017	421-429	1.00
9	Major, K.A., Major, Z.Z., Carbone, G., Pisla, A., Vaida, C., Gherman, B., Pîsla, D.L.	7	Ranges of motion as basis for robot-assisted poststroke	Human and Veterinary Medicine	8(4)	2016	192-196	1.00
10	Vaida, C., Pisla, D., Tucan, P., Gherman, B., Govor, C., Plitea, N.	6	An innovative parallel robotic structure designed for transperineal prostate biopsy	2015 IFToMM World Congress Proceedings, IFToMM 2015		2015		1.00
11	Itul, T., Gherman, B., Pîslă, D.	3	Comparative study of two 2-DOF parallel mechanisms used for orientation	Mechanisms and Machine Science	14	2014	148-157	1.00
12	Bogdan Gherman, Nicolae Plitea, Bogdan Galdau, Calin Vaida, Doina Pisla	5	On the Kinematics of an Innovative Parallel Robot for Brachytherapy, 2014/1/1, Advances in Robot Kinematics, Pages 475-483, Springer International Publishing	Advances in Robot Kinematics	1(1)	2014	475-483	1.00
13	N Plitea, C Vaida, B Gherman, A Szilaghyi, B Galdau, D Cocorean, F Covaciu, D Pisla	8	An innovative family of modular parallel robots for brachytherapy, 2014/1/1, The 11th IFToMM International Symposium on Science of Mechanisms and Machines, Pages 69-79, Springer International Publishing	The 11th IFToMM International Symposium on Science of Mechanisms and Machines	1(1)	2014	69-79	1.00
14	Stoica, A., Pisla, D., Szilaghyi, A., Gherman, B., Plitea, N.	5	Workspace and singularity analysis for a parallel robot used in surgical applications	Mechanisms and Machine Science	7	2013	149-157	1.00

15	Vaida, Calin; Gherman, Bogdan; Pisla, Doina; Plitea, Nicolae	4	A CT-scan compatible robotic device for needle placement in medical applications	INTERDISCIPLINARY RESEARCH IN ENGINEERING: STEPS TOWARDS BREAKTHROUGH INNOVATION FOR SUSTAINABLE DEVELOPMENT	8-9	2013	574-583	1.00
16	Gyurka, B., Gherman, B., Vaida, C., Kovacs, I., Pisla, D.	5	Optimal control for reducing the energy consumption of a reconfigurable parallel robot, IFAC Proceedings Volumes (IFAC-PapersOnline) Volume 2, Issue PART 1, 2013, Pages 143-148	IFAC Proceedings Volumes (IFAC-PapersOnline)	2	2013	143-148	1.00
17	Gherman, B., Vaida, C., Plitea, N., Gyurka, B., Pisla, D.	5	The experimental model of an active parallel surgical robot	Quality - Access to Success	13(5)	2012	361-366	1.00
18	Gyurka, B.; Pisla, D.; Stancel, E.; Vaida, C.; Kovacs, I.; Gherman, B.; Balogh, Sz.; Plitea, N.	8	Integrated Control Techniques for PARASURG 9M Parallel Robot	2012 IEEE INTERNATIONAL CONFERENCE ON AUTOMATION, QUALITY AND TESTING, ROBOTICS, THETA 18TH EDITION		2012	461-466	1.00
19	Vaida, C.; Pisla, D.; Plitea, N.; Gherman, B.; Gyurka, B.; Graur, F.; Vlad, L.	6	Development of a Voice Controlled Surgical Robot	NEW TRENDS IN MECHANISM SCIENCE: ANALYSIS AND DESIGN	5	2010	567-574	1.00
20	Gherman, B.; Vaida, C.; Pisla, D.; Plitea, N.; Gyurka, B.; Lese, D.; Glogoveanu, M.	7	Singularities and Workspace Analysis for a Parallel Robot for Minimally Invasive Surgery	PROCEEDINGS OF 2010 IEEE INTERNATIONAL CONFERENCE ON AUTOMATION, QUALITY AND TESTING, ROBOTICS (AQTR 2010), VOLS. 1-3		2010	319-324	1.00

21	Gyurka, B.; Pisla, D.; Stancel, E.; Vaida, C.; Gherman, B.; Lese, D.; Suciu, M.; Plitea, N.	8	The Control of the PARAMIS Parallel Robot using a Haptic Device	PROCEEDINGS OF 2010 IEEE INTERNATIONAL CONFERENCE ON AUTOMATION, QUALITY AND TESTING, ROBOTICS (AQTR 2010), VOLS. 1-3		2010	354-359	1.00
22	Vaida, C.; Pisla, D.; Plitea, N.; Gherman, B.; Gyurka, B.; Stancel, E.; Hesselbach, J.; Raatz, A.; Vlad, L.; Graur, F.	10	Development of a Control System for a Parallel Robot Used in Minimally Invasive Surgery	INTERNATIONAL CONFERENCE ON ADVANCEMENTS OF MEDICINE AND HEALTH CARE THROUGH TECHNOLOGY	26	2009	171-176	1.00
23	Plitea, N.; Pisla, D.; Vaida, C.; Gherman, B.; Pisla, A.	5	Dynamic Modeling of a Parallel Robot Used in Minimally Invasive Surgery	PROCEEDINGS OF EUCOMES 08, THE SECOND EUROPEAN CONFERENCE ON MECHANISM SCIENCE		2009	595-602	1.00
24	Pisla D., Plitea N., Gherman B, Vaida C, Suciu M.	5	Kinematics and design of a 5 DOF parallel robot used in minimally invasive surgery	Advances in Robot Kinematics, Motion in man and machine	2	2010	99-106	1.00
25	Pisla D., Plitea N., Gherman B, Vaida C, Suciu M.	5	On the dynamics of a 5 DOF Parallel Hybrid robot used in Minimally Invasive Surgery	NEW TRENDS IN MECHANISM SCIENCE: ANALYSIS AND DESIGN	2	2010	691-699	1.00
26	Pisla D., Plitea N., Gherman B, Vaida C, Pisla A.	5	Kinematical Analysis and Design of a New Surgical Parallel Robot	Computational kinematics	1	2009	273-282	1.00
27	Pîslă, D., Plitea, N., Ispas, V., Itul, T., Vaida, C., Vidrean, A., Prodan, B., Gherman, B., Deteşan, O.	9	Innovative Development of Parallel Microrobots With Six Degrees of Freedom and Three Guiding Kinematic Chainsof the Platform	ACTA TECHNICA NAPOCENSIS, Series: Applied Mathematics and Mechanics	51	2008	27-32	1.00
28	Plitea, N., Vidrean, D., Pisla, D., Vaida, C., Gherman, B., Prodan, B.,	6	Modeling and Design of a Min Parallel Robot with four Degrees of Freedom	ACTA TECHNICA NAPOCENSIS, Series: Applied Mathematics and Mechanics	51	2008	39-44	1.00

29	Carbone G., Gherman B.G., Ceccarelli M., Pisla D., Itul T.P.	5	A Robotization for Packaging of Horticulture Products	The International Journal Robotica & Management	12	2007	13-20	1.00
30	Gherman, B., Vaida, C., Plitea, N., Gyurka, B., Pisla, D.	5	The experimental modal of an active parallel surgical robot	Journal of „Quality –Access to Success"s	13	2012	361-366	1.00
31	Stoica, A., Pisla, D., Szilaghyi, A., Gherman, B.,Plitea, N.	5	Kinematic, Workspace and Singularity Analysis of a New Parallel Robot used in Minimally Invasive Surgery	Frontiers of Mechanical Engineering	8	2013	70-79	1.00
32	Vaida, C., Plitea, N., Pîslă, D., Gherman, B., Suciu, M.	5	Design and Analysis of a module for instrument tip orientation in minimally invasive surgery procedures	ACTA TECHNICA NAPOCENSIS, Series: Applied Mathematics and Mechanics	54	2011	353-358	1.00
33	F. Covaciu, B. Gherman, C. Vaida, N. Plitea, D. Pisla, F. Puskas	6	Control of a Medical Parallel Robot for Brachytherapy	Acta Electrotehnica	3	2015	152-156	1.00
34	D. Pisla, F. Covaciu, B. Gherman, C. Vaida, N. Plitea:	5	A NEW SERIAL COMMUNICATION PROTOCOL FOR THE CONTROL OFA MEDICAL PARALLEL ROBOT	ACTA TECHNICA NAPOCENSIS, Series: Applied Mathematics and Mechanics	59	2016	7-16	1.00
35	F. Gîrbacia, D. Pîslă, S. Butnariu, B. Gherman, T. Gîrbacia, N. Plitea	6	An Evolutionary Computational Algorithm for Trajectory Planning of an Innovative Parallel Robot for Brachytherapy	New Advances in Mechanisms, Mechanical Transmissions and Robotics	46	2016	427-435	1.00
36	B. Gherman, D. Pisla, G. Kacso, N. Plitea	4	Kinematic Behavior of a Novel Medical Parallel Robot for Needle Placement	Advances in Intelligent Systems and Computing	371	2015	329-338	1.00
37	F. Covaciu, D. Ani, B. Gherman, N. Plitea, D. Pisla	5	Design and Control System of a Modular Parallel Robot for Medical Applications	Robotica & Management,	20	2015	22-27	1.00
38	Suciu, M., Gherman, B., Vaida, C., Plitea, N., Pîslă	5	On the Kinematics of a Hybrid Parallel Robot used in Minimally Invasive Surgery	Mechanisms and Machine Science	3	2012	255-262	1.00

39	Plitea N., Vaida C., Gherman B., Szilaghyi A., Galdau B., Cocorean D., Covaciu F., Pisla D.	8	Structural Analysis and Synthesis of Parallel Robots for Brachytherapy	New Trends in Medical and Service Robots -Theory and Integrated Applications, Series: Mechanisms and Machine Science	16	2014	191-204	1.00
40	T. Itul, B. Gherman, D. Cocorean, D. Pisla:	4	Inverse Dynamics of 2-DOF Parallel Mechanism Used for Orientation	New Trends in Mechanism and Machine Science, Vol. From Fundamentals to Industrial Applications		2015	455-462	1.00
41	D. Pisla, N. Plitea, B. Galdau, C. Vaida, B. Gherman	5	Innovative Approaches Regarding Robots for Brachytherapy	New Trends in Medical and Service Robots, Mechanisms and Machine Science	20	2014	63-77	1.00
42	F. Girbacia, B. Gherman, S. Butnariu, N. Plitea, D. Talaba, D. Pisla:	6	Virtual Planning Of Needle Trajectories Using A Haptic Interface For A Brachytherapy Parallel Robot: an evaluation study	Applied Mechanics and Materials	762	2015	155-160	1.00
43	B. Gherman, T. Girbacia, D. Cocorean, C. Vaida, S. Butnariu, N. Plitea, D. Talaba, D. Pisla	8	Virtual Planning of Needle Guidance for a Parallel Robot Used in Brachytherapy	New Trends in Medical and Service Robots		2015	109-120	1.00
44	Pisla, D, Nae, L Vaida, C Oprea, E Pisla, A Gherman, B Antal, T Riessenberger, K, Plitea, N	9	Development of a Learning Management System for Knowledge Transfer in Engineering	ACTA TECHNICA NAPOCENSIS SERIES-APPLIED MATHEMATICS MECHANICS AND ENGINEERING	64(3)	2021	361-368	1.00
45	Pisla, D Andras, I Vaida, C Crisan, N Ulinici, I Birlescu, I Plitea, N	7	New Approach to Hybrid Robotic System Aplication in Single Incision Laparoscopic Surgery	ACTA TECHNICA NAPOCENSIS SERIES-APPLIED MATHEMATICS MECHANICS AND ENGINEERING	64(3)	2021	369-378	1.00

46	Pisla, D Birlescu, I Mois, E Tucan, P Radu, C Burz, A Gherman, B, Antal, T Vaida, C Al Hajjar, N	10	Simulation and Control of an Innovative Medical Parallel Robot Used for Hcc Treatment Procedure	ACTA TECHNICA NAPOCENSIS SERIES-APPLIED MATHEMATICS MECHANICS AND ENGINEERING	64(1) SI2	2021	405-416	1.00
47	Iosif Birlescu, Florin Graur, Calin Vaida, Corina Radu, Paul Tucan, Bogdan Gherman, Adrian Pisla, Nadim Al Hajjar, Doina Pisla	9	Experimental Testing and Implementation of a Force - Torque Sensor in Automated Percutaneous Needle Insertion Instruments	2021 INTERNATIONAL CONFERENCE ON E-HEALTH AND BIOENGINEERING (EHB 2021), 9TH EDITION		2021	1-6	1.00
48	Calin Vaida, Nicolae Crisan, Iosif Birlescu, Iulia Andras, Doina Pisla	5	Preliminary Assessment of Artificial Intelligence Agents for a SILS Robotic System	2021 INTERNATIONAL CONFERENCE ON E-HEALTH AND BIOENGINEERING (EHB 2021), 9TH EDITION		2021	1-6	1.00
49	Calin Vaida, Iulia Andras, Iosif Birlescu, Nicolae Crisan, Nicolae Plitea, Doina Pisla	6	Preliminary control design of a Single-Incision Laparoscopic Surgery Robotic System	2021 25TH INTERNATIONAL CONFERENCE ON SYSTEM THEORY, CONTROL AND COMPUTING (ICSTCC)		2021	384-389	1.00
50	Alin Burz, Paul Tucan, Nicoleta Tohanean, Bogdan Gherman, Calin Vaida, Cristian Abrudan, Giuseppe Carbone, Doina Pisla	8	HRI Based Command System of a Modular Parallel Robot for Brachial Monoparesis	PROCEEDINGS OF 2022 IEEE INTERNATIONAL CONFERENCE ON AUTOMATION, QUALITY AND TESTING, ROBOTICS (AQTR 2022)		2022	138-143	1.00
51	Vaida, C Nae, L Deriaz, M Pisla, A Oprea, E Gherman, B Mircea, A Stulens, L Pisla, D	9	User Needs and Requirements Analysis for a Seniors Dedicated Ai Driven Knowledge Transfer Platform	ACTA TECHNICA NAPOCENSIS SERIES-APPLIED MATHEMATICS MECHANICS AND ENGINEERING	64(4)	2021	813-820	1.00

52	Pop, N Ulinici, I Tucan, P Birlescu, I Vaida, C Carbone, G Pisla, D	7	Experimental Evaluation of a Parallel Rehabilitation Robot for Neuromotor Impairment	ACTA TECHNICA NAPOCENSIS SERIES-APPLIED MATHEMATICS MECHANICS AND ENGINEERING	64(1)	2021	161-172	1.00
53	BURZ Alin, Paul TUCAN, Nicoleta TOHANEAN, Bogdan GHERMAN, Calin VAIDA, Adrian PISLA, Tiberiu ANTAL, Giuseppe CARBONE, Cristian ABRUDAN, Doina PISLA	10	PATIENT ORIENTED CONTROL SYSTEM OF A MODULAR PARALLEL ROBOT FOR ELBOW REHABILITATION	ACTA TECHNICA NAPOCENSIS SERIES-APPLIED MATHEMATICS MECHANICS AND ENGINEERING	65 SI	2022	277-284	1.00
54	Alexandru PUSCA, RUS Gabriela, Iosif BIRLESCU, Calin VAIDA, Adrian PISLA, Claudiu SCHONSTEIN, Bogdan GHERMAN, Paul TUCAN, Doina PISLA	9	WORKSPACE ANALYSIS OF TWO INNOVATIVE PARALLEL ROBOTS FOR SINGLE INCISION LAPAROSCOPIC SURGERY	ACTA TECHNICA NAPOCENSIS SERIES-APPLIED MATHEMATICS MECHANICS AND ENGINEERING	65 SI	2022	407-414	1.00
55	Ionut ULINICI, Calin VAIDA, Bogdan GHERMAN, Tiberiu Alexandru ANTAL, Paul TUCAN, Doina PISLA	6	KINEMATICS AND WORKSPACE SIMULATION OF A NEW PARALLEL ROBOT FOR SILS	ACTA TECHNICA NAPOCENSIS SERIES-APPLIED MATHEMATICS MECHANICS AND ENGINEERING	65 SI	2022	505-514	1.00
56	Pisla, A.; Nae, L.; Vaida, C.; Oprea, E.; Gherman, B.; Deriaz, M.; Pisla, D.	7	Modern Project Approaches in Shortening the Lead Time in Innovation for Young Emerging Companies Based on the Experienced Seniors Knowledge	SMART, SUSTAINABLE MANUFACTURING IN AN EVER-CHANGING WORLD, COMA '22/ ISSN: 2194-0525		2023	229-242	1.00
57	Damian Hedinger, Leen Stulens, Bogdan Gherman, Sanne Broeder	4	An Attempt to Counter Agism in Gerontechnology Through the Engagement of Older Adults in the Development of Wisdom of Age	ICT4AWE 2021, Virtual Event, April 24–26, 2021, and 8th International Conference, ICT4AWE 2022, Virtual Event, April 23–25, 2022		2023	123	1.00

58	Tucan, P., Gherman, B., Pisla, A., Horsia, A., Vaida, C., Pisla, D.	6	A Singularity-Free Approach for Safe Operation of a Parallel Robot for Lower Limb Rehabilitation	Advances in Service and Industrial Robotics. RAAD 2023. Mechanisms and Machine Science	135	2023	141-149	1.00
59	Doina Pisla, Iulia Andras, Alexandru Pusca, Corina Radu, Bogdan Gherman, Paul Tucan, Nicolae Crisan, Calin Vaida, Nadim Al Hajjar	9	Design and Functional Analysis of a New Parallel Modular Robotic System for Single Incision Laparoscopic Surgery	New Trends in Medical and Service Robotics. MESROB 2023. Mechanisms and Machine Science	133	2023	32-41	1.00
60	Doina Pisla, Nicolae Crisan, Ionut Ulinici, Bogdan Gherman, Corina Radu, Paul Tucan, Calin Vaida	7	Structural Study of a Robotic System for Sils Surgery	New Trends in Medical and Service Robotics. MESROB 2023. Mechanisms and Machine Science	133	2023	20-31	1.00
61	Rus Gabriela, Bogdan Gherman, Laurentiu Nae, Calin Vaida, Adrian Pisla, Eduard Oprea, Claudiu Schonstein, Tiberiu Antal, Doina Pisla	9	Fuzzy Logic Systems: From WisdomofAge Mentoring Platform to Medical Robots	New Trends in Medical and Service Robotics. MESROB 2023. Mechanisms and Machine Science	133	2023	50-59	1.00
62	Calin Vaida, Gabriela Rus, Bogdan Gherman, Alexandru Pusca, Paul Tucan, Ionut Ulinici, Doina Pisla	7	Development of an augmented reality simulator for a robotic system used in single incision laparoscopic surgery	The Romanian Journal of Technical Sciences. Applied Mechanics	68(1)	2023	3-19	1.00
63	Florin Covaciu, Iulia Pop, Bogdan Gherman, Adrian Pisla, Calin Vaida, Nadim Al Hajjar, Doina Pisla	7	Development of a Virtual Reality Simulator for Robotic Assisted Surgery	New Advances in Mechanisms, Transmissions and Applications. MeTrApp 2023. Mechanisms and Machine Science	124	2023	52-61	1.00
	Total							63.00

P1.1 **Articole și publicații științifice indexate Web of Science - Thomson Reuters *, ****

Autor corespondent/Prim autor ***maxim 3 autori***

Nr. crt.	Autor corespondent=2; Prim autor=1	Nume autori	Titlul lucrarii	Denumire Jurnal /ISSN	Volum /Numar	Anul publicarii	nr. pagini (de la .. pana la:)	Factor de impact in anul publicarii	Punctaj individual pt n max 3
1								0	0.00
2									0.00
		Total							0.00

P1.2 **Articole și publicații științifice indexate Web of Science - Thomson Reuters *, ****

Autor corespondent/Prim autor ***mai mult de 4 autori inclusiv***

Nr. crt.	Autor corespondent =2; Prim autor= 1	Numar autori	Nume autori	Titlul lucrarii	Denumire Jurnal/ ISSN	Volum/ Numar	Anul publicarii	nr. pagini (de la .. pana la:)	Factor de impact in anul publicarii	Punctaj individual
1	1	4	Gherman, Bogdan; Pisla, Doina; Vaida, Calin; Plitea, Nicolae	Development of inverse dynamic model for a surgical hybrid parallel robot with equivalent lumped masses	ROBOTICS AND COMPUTER-INTEGRATED MANUFACTURING	28(3)	2012	402-415	1.839	3.06
2	2	4	Pisla, Doina; Gherman, Bogdan; Vaida, Calin; Plitea, Nicolae	Kinematic modelling of a 5-DOF hybrid parallel robot for laparoscopic surgery	ROBOTICA	30(7)	2012	1095-1107	0.894	1.64
3	1	4	Gherman, Bogdan; Pisla, Doina; Vaida, Calin; Plitea, Nicolae	ON WORKSPACE AND ACCURACY EVALUATION OF A PARALLEL ROBOT FOR NEEDLE PLACEMENT PROCEDURES	PROCEEDINGS OF THE ROMANIAN ACADEMY SERIES A-MATHEMATICS PHYSICS TECHNICAL SCIENCES INFORMATION SCIENCE	17(4)	2016	344-351	1.623	2.73
4	2	5	Plitea, Nicolae; Gherman, Bogdan; Cocorean, Dragos; Vaida, Calin; Pisla, Doina	INVERSE DYNAMIC MODELLING OF A PARALLEL ROBOTIC SYSTEM FOR BRACHYTHERAPY	PROCEEDINGS OF THE ROMANIAN ACADEMY SERIES A-MATHEMATICS PHYSICS TECHNICAL SCIENCES INFORMATION SCIENCE	18(1)	2017	55-63	1.752	2.34
5	1	6	Gherman, B ; Birlescu, I ; Plitea, N ; Carbone, G ; Tarnita, D ; Pisla, D	ON THE SINGULARITY-FREE WORKSPACE OF A PARALLEL ROBOT FOR LOWER-LIMB REHABILITATION	PROCEEDINGS OF THE ROMANIAN ACADEMY SERIES A-MATHEMATICS PHYSICS TECHNICAL SCIENCES INFORMATION SCIENCE	20(4)	2019	383-391	1.294	1.49

6	1	7	Gherman, B ; Al Hajjar, N ; Burz, A ; Birlescu, I ; Tucan, P ; Graur, F ; Pisla, D	DESIGN OF AN INNOVATIVE MEDICAL ROBOTIC INSTRUMENT FOR MINIMALLY INVASIVE TREATMENT OF LIVER TUMORS	ACTA TECHNICA NAPOCENSIS SERIES-APPLIED MATHEMATICS MECHANICS AND ENGINEERING	62(4)	2019	557-562	0.3	0.43
7	1	6	Gherman, B ; Burz, A ; Jucan, D ; Bara, F ; Carbone, G ; Pisla, D	UPPER LIMB REHABILITATION WITH A COLLABORATIVE ROBOT	ACTA TECHNICA NAPOCENSIS SERIES-APPLIED MATHEMATICS MECHANICS AND ENGINEERING	62(2)	2019	323-330	0.3	0.50
8	1	8	Bogdan Gherman, Iosif Birlescu, Ferenc Puskas, Adrian Pisla, Giuseppe Carbone, Paul Tucan, Alexandru Banica, Doina Pisla	A kinematic characterization of a parallel robotic system for lower limb rehabilitation	PROCEEDINGS OF THE 7TH EUROPEAN CONFERENCE ON MECHANISM SCIENCE, EUCOMES 2018	59	2019	27-34	0	0.15
9	1	8	Bogdan Gherman, Nadim Al Hajjar, Paul Tucan, Corina Radu, Calin Vaida, Emil Mois, Alin Burz, Doina Pisla	Risk Assessment-Oriented Design of a Needle Insertion Robotic System for Non-Resectable Liver Tumors	Healthcare	10(2)	2022	389	3.16	2.52
10	2	8	Pisla, D Nadas, I Tucan, P Albert, S Carbone, G Antal, T Banica, A Gherman, B	Development Of A Control System And Functional Validation Of A Parallel Robot For Lower Limb Rehabilitation	ACTUATORS	10(10)	2021		2.523	2.04
11	2	9	Pisla, D.; Crisan, N.; Gherman, B.; Andras, I.; Tucan, P.; Radu, C.; Pusca, A.; Vaida, C.; Al Hajjar, N.	Safety Issues in the Development of an Innovative Medical Parallel Robot Used in Renal Single-Incision Laparoscopic Surgery	Journal of Clinical Medicine	12(14)	2023	4617	3.9	2.73
			Total							19.64

P1.3 **Articole și publicații științifice indexate Web of Science - Thomson Reuters**

co-autor ***maxim 3 autori***

Nr.crt	Nume autori	Titlul lucrarii	Denumire Jurnal/ ISSN	Volum/Numar	Anul publicarii	nr. pagini (de la .. pana la:)	Factor de impact in anul publicarii	Numar autori	Punctaj individual
1							0		0.00
2									0.00
3									0.00
									0.00
	Total								0.00

P1.4

Articole și publicații științifice indexate Web of Science - Thomson Reuters

co-autor ***mai mult de 3 autori***

Nr. crt	Nume autori	Titlul lucrarii	Denumire Jurnal/ISSN	Volum/ Numar	Anul publicarii	nr. pagini (de la .. pana la:)	Factor de impact in anul publicarii	Numar autori	Punctaj individual
1	Vaida, C.; Plitea, N.; Pisla, D.; Gherman, B.	Orientation module for surgical instruments-a systematical approach	MECCANICA	48(1)	2013	145-158	1.815	4	1.51
2	Pisla, D.; Gherman, B.; Plitea, N.; Gyurka, B.; Vaida, C.; Vlad, L.; Graur, F.; Radu, C.; Suciu, M.; Szilaghi, A.; Stoica, A.	PARASURG hybrid parallel robot for minimally invasive surgery	CHIRURGIA	106(5)	2011	619-625	0.777	11	0.56
3	Pisla, Doina; Gherman, Bogdan; Vaida, Calin; Suciu, Marius; Plitea, Nicolae	An active hybrid parallel robot for minimally invasive surgery	ROBOTICS AND COMPUTER-INTEGRATED MANUFACTURING	29(4)	2013	203-221	1.839	5	0.66
4	Plitea, N.; Hesselbach, J.; Pisla, D.; Raatz, A.; Gherman, B.; Vaida, C.	Dynamic analysis and design of a surgical parallel robot used in laparoscopy	JOURNAL OF VIBROENGINEERING	11(2)	2009	215-225	0.66	6	0.43
5	Plitea, Nicolae; Pisla, Doina; Vaida, Calin; Gherman, Bogdan; Szilaghyi, Andras; Galdau, Bogdan; Cocorean, Dragos; Covaciu, Florin	ON THE KINEMATICS OF A NEW PARALLEL ROBOT FOR BRACHYTHERAPY	PROCEEDINGS OF THE ROMANIAN ACADEMY SERIES A-MATHEMATICS PHYSICS TECHNICAL SCIENCES INFORMATION SCIENCE	15(4)	2014	354-361	1.115	8	0.49
6	Pisla, D.; Plitea, N.; Vaida, C.; Hesselbach, J.; Raatz, A.; Vlad, L.; Graur, F.; Gyurka, B.; Gherman, B.; Suciu, M.	PARAMIS parallel robot for laparoscopic surgery	CHIRURGIA	105(5)	2010	677-683	0.777	10	0.29

7	Pisla, Doina; Birlescu, Iosif; Vaida, Calin; Tucan, Paul; Pisla, Adrian; Gherman, Bogdan; Crisan, Nicolae; Plitea, Nicolae	ALGEBRAIC MODELING OF KINEMATICS AND SINGULARITIES FOR A PROSTATE BIOPSY PARALLEL ROBOT	PROCEEDINGS OF THE ROMANIAN ACADEMY SERIES A-MATHEMATICS PHYSICS TECHNICAL SCIENCES INFORMATION SCIENCE	19(3)	2018	489-497	1.752	8	0.73
8	Pisla, D., Tucan, P., Gherman, B., Crisan, N., Andras, I., Vaida, C.(c.a.), and Plitea, N.	Development of a parallel robotic system for transperineal biopsy of the prostate	Mechanical Sciences	8	2017	195-213	1.352	7	0.67
9	Carbone, Giuseppe; Gherman, Bogdan; Ulinici, Ionut; Vaida, Calin; Pisla, Doina	Design Issues for an Inherently Safe Robotic Rehabilitation Device	ADVANCES IN SERVICE AND IN	49	2018	1025-103	0	5	0.12
10	Birlescu, Iosif; Craciun, Florin; Vaida, Calin; Gherman, Bogdan; Pisla, Doina	AN INNOVATIVE AUTOMATED INSTRUMENT FOR ROBOTICALLY ASSISTED BRACHYTHERAPY USED IN CANCER TREATMENT	ACTA TECHNICA NAPOCENSIS S	60(4)	2017	633-638	0	5	0.12
11	Tucan, P.; Vaida, C.; Gherman, B.; Craciun, F.; Plitea, N.; Birlescu, I.; Jucan, D.; Pisla, D.	Control System of a Medical Parallel Robot for Transperineal Prostate Biopsy	2017 21ST INTERNATIONAL CONFERENC		2017	206-211	0	8	0.08
12	Nadas, I.; Vaida, C.; Gherman, B.; Pisla, D.; Carbone, G.	Considerations for Designing Robotic Upper Limb Rehabilitation Devices	11TH INTERNATIONAL CONFER	1917	2017	3005	0	5	0.12
13	Girbacia, Florin; Boboc, Razvan; Gherman, Bogdan; Girbacia, Teodora; Pisla, Doina	Planning of Needle Insertion for Robotic-Assisted Prostate Biopsy in Augmented Reality Using RGB-D Camera	ADVANCES IN ROBOT DESIGN A	540	2017	515-522	0	5	0.12
14	Girbacia, F.; Pisla, D.; Butnariu, S.; Gherman, B.; Girbacia, T.; Plitea, N.	An Evolutionary Computational Algorithm for Trajectory Planning of an Innovative Parallel Robot for Brachytherapy	NEW ADVANCES IN MECHANIS	46	2017	427-435	0	6	0.10

15	Vaida, Calin; Pisla, Doina; Covaciu, Florin; Gherman, Bogdan; Pisla, Adrian; Plitea, Nicolae	Development of a Control System for a HEXA Parallel Robot	PROCEEDING OF 2016 IEEE INTERNATIO		2016	213-218	0	6	0.10
16	Itul, T.; Gherman, B.; Cocorean, D.; Pisla, D.	Inverse Dynamics of 2-DOF Parallel Mechanism Used for Orientation	NEW TRENDS IN MECHANISM	24	2015	455-462	0	4	0.15
17	Galdau, B.; Pisla, D.; Kacso, G.; Cocorean, D.; Vaida, C.; Gherman, B.; Plitea, N.	NEW DESIGN OF BR-1: AN INNOVATIVE PARALLEL ROBOT FOR BRACHYTHERAPY	2014 INTERNATIONAL CONFER		2014	206-211	0	7	0.09
18	Plitea, N.; Vaida, C.; Gherman, B.; Szilaghyi, A.; Galdau, B.; Cocorean, D.; Covaciu, F.; Pisla, D.	Structural Analysis and Synthesis of Parallel Robots for Brachytherapy	NEW TRENDS IN MEDICAL AND	16	2014	191-204	0	8	0.08
19	Z. Major, C. Vaida, K. Major, P. Tucan, G. Simori, A. Banica, E. Brusturean, A. Burz, R. Craciunas, I. Ulinici, G. Carbone, B. Gherman, I. Birlescu, D. Pisla	The impact of robotic rehabilitation on the motor system in neurological diseases. A multimodal neurophysiological approach	Int. J. Environ. Res. Public Heal	17(18)	2020	6557	2.849	14	0.65
20	C. Vaida, N. Plitea, N. Al Hajjar, A. Burz, F. Graur, B. Gherman, D. Pisla	A new robotic system for minimally invasive treatment of liver tumours	Proc. Of the Romanian Acaden	21(3)	2020	273-280	1.294	7	0.64
21	P. Tucan, B. Gherman, K. Major, C. Vaida, Z. Major, N. Plitea, G. Carbone, D. Pisla	Fuzzy logic-based risk assessment of a parallel robot for elbow and wrist rehabilitation	Int. J. Environ. Res. Public Heal	17(2)	2020	654	2.849	10	0.91
22	Doina Pisla, Vaida Calin (c.a.),Iosif Birlescu, Nadim Al Hajjar, Bogdan Gherman, Corina Radu Nicolae Plitea	Risk Management for the Reliability of Robotic Assisted Treatment of Non-resectable Liver Tumors	Applied Sciences	10	2020	1-22	2.474	7	1.15

23	Vaida, C; Plitea, N ; Al Hajjar, N;	A NEW ROBOTIC SYSTEM FOR MINIMALLY INVASIVE TREATMENT OF LIVER TUMOURS	PROCEEDINGS OF THE ROMAN	21(3)	2020	273-280	1.294	7	0.64
24	Iosif Birlescu,Manfred Husty ,Calin Vaida, Bogdan Gherman,Paul Tucan,Doina Pisla	Joint-Space Characterization of a Medical Parallel Robot Based on a Dual Quaternion Representation of SE(3)	Mathematics	8(7)	2020	1-23	1.747	6	0.97
25	Paul Tucan, Bogdan Gherman, Kinga Major, Calin Vaida, Zoltan Major, Nicolae Plitea,Giuseppe Carbone, Doina Pisla	Fuzzy Logic-Based Risk Assessment of a Parallel Robot for Elbow and Wrist Rehabilitation	International Journal of Enviro	17(2)	2020	1-22	2.849	8	1.14
26	Birlescu, I; Pisla, D; Gherman, B ; Pisla, A ; Vaida, C ; Carbone, G ; Plitea, N	On the Singularities of a Parallel Robotic System Used for Elbow and Wrist Rehabilitation	ADVANCES IN ROBOT KINEMA	8	2019	203-211	0	7	0.09
27	Major, ZZ Vaida, C Major, KA Tucan, P Brusturean, E Gherman, B Birlescu, I Craciunas, R Ulinici, I Simori, G Banica, A Pop, N Burz, Carbone, G Pisla, D	Comparative Assessment of Robotic versus Classical Physical Therapy Using Muscle Strength and Ranges of Motion Testing in Neurological Diseases	JOURNAL OF PERSONALIZED M	11(10)	2021		3.508	15	0.74
28	Tucan, P Vaida, C Ulinici, I Banica, A Burz, A, Pop, N Birlescu, I Gherman, B Plitea, N Antal, T Carbone, G Pisla, D	Optimization of the ASPIRE Spherical Parallel Rehabilitation Robot Based on Its Clinical Evaluation	INTERNATIONAL JOURNAL OF	18(6)	2021		4.614	12	1.20
29	Paul Tucan, Calin Vaida, Daniel Horvath, Andrei Caprariu, Alin Burz, Bogdan Gherman, Stefan Iakab, Doina Pisla	Design and Experimental Setup of a Robotic Medical Instrument for Brachytherapy in Non-Resectable Liver Tumors	Cancers	14(23)	2022		6.575	8	2.54

30	Doina Pisla, Iosif Birlescu, Nicolae Crisan, Alexandru Pusca, Iulia Andras, Paul Tucan, Corina Radu, Bogdan Gherman, Calin Vaida	Singularity Analysis and Geometric Optimization of a 6-DOF Parallel Robot for SILS	Machines	10(9)	2022	764	2.899	9	1.03
31	Daniela Tarnita, Ionut Daniel Geonea, Doina Pisla, Giuseppe Carbone, Bogdan Gherman, Nicoleta Tohanean, Paul Tucan, Cristian Abrudan, Danut Nicolae Tarnita	Analysis of Dynamic Behavior of ParReEx Robot Used in Upper Limb Rehabilitation	APPLIED SCIENCES-BASEL	12(5)	2022	907	2.838	9	1.01
32	Doina Pisla, A Pusca, P Tucan, B Gherman, C Vaida	Kinematics and workspace analysis of an innovative 6-dof parallel robot for SILS	Proc. Rom. Acad. Ser. A	23(3)	2022	277-286	0.734	5	0.56
33	Rus, G., Andras, I., Vaida, C., Crisan, N., Gherman, B., Radu, C., Tucan, P., Iakab, S., Hajjar, N.A. and Pisla, D.	Artificial Intelligence-Based Hazard Detection in Robotic-Assisted Single-Incision Oncologic Surgery	Cancers	15(13)	2023	3387	5.2	10	1.62
34	Covaciu, F.; Crisan, N.; Vaida, C.; Andras, I.; Pusca, A.; Gherman, B.; Radu, C.; Tucan, P.; Al Hajjar, N.; Pisla, D.	Integration of Virtual Reality in the Control System of an Innovative Medical Robot for Single-Incision Laparoscopic Surgery	Sensors	23(12)	2023		3.9	10	1.23
35	Tohanean, N.; Tucan, P.; Vanta, O.-M.; Abrudan, C.; Pintea, S.; Gherman, B.; Burz, A.; Banica, A.; Vaida, C.; Neguran, D.A.; Ordog, A.; Tanita, D.; Pisla, D.	The Efficacity of the NeuroAssist Robotic System for Motor Rehabilitation of the Upper Limb—Promising Results from a Pilot Study	JOURNAL OF CLINICAL MEDICI	12(2)	2023	425	3.9	13	0.95
	Total								23.49

P2.1<4 **Brevete internationale indexate in Web of Science-Derwent Innovation**

Prim autor/autor corespondent ***maxim 3 autori***

Nr.crt	Autori	Titlul brevetului/numar	Anul obtinerii brevetului	Numar autori	Punctaj individual
					0.00
					0.00
					0.00
	Total				0.00

P2.1>4 **Brevete internationale indexate in Web of Science-Derwent Innovation**

Prim autor/autor corespondent ***minim 4 autori***

Nr.crt	Autori	Titlul brevetului/numar	Anul obtinerii brevetului	Numar autori	Punctaj individual
					0.00
					0.00
					0.00
	Total				0.00

P2.2<4 **Brevete indexate OSIM**

Prim autor/autor corespondent ***maxim 3 autori***

Nr.crt	Autori	Titlul brevetului	Anul aparitiei	Numar autori	Punctaj individual
					0.00
					0.00
	Total				0.00

P2.2>4 **Brevete indexate OSIM**

Prim autor/autor corespondent ***minim 4 autori inclusiv***

Nr.crt	Autori	Titlul brevetului	Anul aparitiei	Numar autori	Punctaj individual
1	Gherman, B.G., Pisla, D.L., Plitea, N., Vaida, L.C.,	Sistem robotic par	2020	7	0.60
					0.00
					0.00
	Total				0.60

P2.2.1<4 **Brevete internationale indexate in Web of Science-Derwent Innovation**

Co-autor ***maxim 3 autori***

Nr.crt	Autori	Titlul brevetului	Anul aparitiei	Numar autori	Punctaj individual
					0.00
					0.00
	Total				0.00

P2.2.1>4 **Brevete internationale indexate in Web of Science-Derwent Innovation**

Co-autor ***minim 4 autori inclusiv***

Nr.crt	Autori	Titlul brevetului	Anul aparitiei	Numar autori	Punctaj individual
					0.00
					0.00
	Total				0.00

P2.2.2<4 **Brevete indexate OSIM; co-autor;**

maxim 3 autori

Nr.crt	Autori	Titlul brevetului	Anul aparitiei	Numar autori	Punctaj individual
					0.00
					0.00
					0.00
	Total				**0.00**

P2.2.2>4 **Brevete indexate OSIM; co-autor;**

minim 4 autori

Nr.crt	Autori	Titlul brevetului	Anul aparitiei	Numar autori	Punctaj individual
1	Plitea, N., Pîslă, D., Vaida, C., Gherman, B.	Surgical Robot. RO-126271, Romania (2012)	2012	4	0.53
2	Vaida, C., Plitea, N., Pisla, D., Gherman, B., Suciu, M.	Modul de orientare cu structura modulara cu multiple curburi	2019	5	0.42
3	Vaida, L.C., Plitea, N., Pisla, D.L., Carbone, G., Gherman, B.G., Ulinici, I.M., Pisla, A.	Robot sferic pentru recuperarea medicală a zonei proximale la nivelul membrului	2020	7	0.30
4	Pisla D., Gherman B., Nadas I., Pop N., Craciun F., Tucan P., Vaida C., Carbone G.,	Robot paralel inovativ pentru recuperarea medicala a membrelor inferioare	2021	10	0.21
5	Pisla D., Birlescu I., Vaida C., Gherman B., Tucan P., Plitea N.	Robot paralel pentru recuperarea mobilității membrului inferior	2021	6	0.35
		Total			1.81

N4.1-2

Produse, tehnologii, platforme şi servicii inovative (validate conform procedurilor specifice unităților de învățământ superior sau de cercetare)

Nr.crt	Denumire produs	anul validarii/mod validare (procedura)	Numar contributori	Calitatea: 1 - coordonator; 2 membru in echipa	Punctaj individual
1	Sistem robotic modular de biopsie a prostatei cu sistem de comanda BR- BIOPROS1	2018	4	1	1.00
2	Sistem robotic pentru biopsia prostatei cu control din calculator - BR1	2017	4	1	1.00
3	Instrumente pentru diagnosticul si tratamentul cancerului: brahiterapie (6 ace), ablatie prin radiofrecventa, biopsie	2017	4	1	1.00
4	Sistem robotic pentru tratamentul cancerului prin brahiterapie PARA-BRACHYROB	2016	5	2	1.00
5	Sistem robotic pentru conducerea instrumentelor active in interventii minim invazive - PARASURG-5M	2011	5	1	1.00
6	C. Vaida, I. Birlescu, B. Gherman, P. Tucan, N. Plitea, D. Pisla: „Automated medical instrument for robotic assisted prostate biopsy" Patent pending: A/00936/29.11.2016.	2016	6	2	1.00
7	D. Pisla, C. Vaida, I. Birlescu, F. Graur, B. Gherman, P. Tucan, N. Plitea: „Automated medical instrument for radiofrequency ablation" Patent pending: A00379/10.06.2017.	2017	7	1	1.00
8	D. Pisla, C. Vaida, I. Birlescu, F. Graur, B. Gherman, P. Tucan, N. Plitea: „Automated medical instrument with multiple needles for brachytherapy" Patent pending: A00431/12.09.2017.	2017	7	1	1.00
9	N. Plitea, D. Pisla, C. Vaida, B. Gherman, A. Szilaghyi, B. Galdau, D. Cocorean: Robot paralel pentru brahiterapie cu doua lanturi cinematice de ghidare a platformei (acului) de tip 2CRRU si CRU, cerere de brevet publicată, RO129696-A2.	2012	7	2	1.00
10	N. Plitea, D. Pisla, C. Vaida, B. Gherman, A. Szilaghyi, B. Galdau, D. Cocorean: Robot paralel pentru brahiterapie cu doua lanturi cinematice de ghidare ale platformei (acului) de tip 2CRRU si CYL-U, cerere de brevet publicată, RO129697-A2.	2012	7	2	1.00

11	N. Plitea, D. Pisla, C. Vaida, B. Gherman, A. Szilaghyi, B. Galdau, D. Cocorean: Robot paralel pentru brahiterapie cu doua lanturi cinematice de ghidare a platformei de tip CYL-U, cerere de brevet publicată, RO129698-A2.	2012	7	2	1.00
12	N. Plitea, D. Pisla, C. Vaida, B. Gherman, A. Szilaghyi, B. Galdau, D. Cocorean: Robot paralel pentru brahiterapie cu doua module paralele, unul de pozitionare si unul de orientare, cerere de brevet publicată, RO129699-A2.	2012	7	2	1.00
13	N. Plitea, D. Pisla, C. Vaida, B. Gherman, P. Tucan, C. Govor, F. Covaciu: Familie de roboti paraleli pentru biopsia transperineala a prostatei, In curs de brevetare: A/00191/13.03.2015;	2015	7	2	1.00
14	C. Vaida, D. Pisla, P. Tucan, N. Plitea, B. Gherman: Robot paralel pentru biopsia transperineală a prostatei. In curs de brevetare:A201500761.	2015	5	2	1.00
15	Vaida Călin, Plitea Nicolae, Pîslă Doina, Carbone Giuseppe, Gherman Bogdan, Ulinici Ionuț, Robot sferic pentru recuperarea medicală a zonei proximale la nivelul membrului superior, numărul de înregistrare OSIM A00374/14.06.2017 .	2017	6	2	1.00
16	Gherman Bogdan, Pîslă Doina, Plitea Nicolae, Vaida Călin, Carbone Giuseppe, Pîslă Adrian, Bănică Alexandru, Familie de roboți pentru recuperarea medicală a membrului superior, numărul de înregistrare OSIM A00375/14.16.2017 .	2017	7	2	1.00
17	Carbone Giuseppe, Pîslă Doina, Vaida Călin, Nadăș Iuliu, Sistem inovator cu cabluri pentru reabilitarea mişcării membrelor superioare, numărul de înregistrare OSIM A/00558/31.07.2018.	2018	4	2	1.00
18	Plitea Nicolae, Pîslă Doina, Carbone Giuseppe, Vaida Calin, Gherman Bogdan, Ulinici Ionuț, Robot sferico per il recupero riabilitativo della spalla, numărul de înregistrare MSE (Ministero dello Sviluppo Economico, Italia) 102018000006216/12.06.2018 (Cerere Brevet European).	2018	6	2	1.00
19	Plitea, N., Pisla, D., Vaida, C., Gherman, B., Tucan, P., PRoHep-LCT- Robot paralel pentru tratamentul laparoscopic al cancerului de ficat, Cerere de brevet nr. A1017/03.12.2018	2018	5	2	1.00
20	Vaida, C., Pisla, D., Plitea, N., Gherman, B., Tucan, P., Sistem paralel modular pentru ghidarea sondei ecografice laparoscopice si a instrumentelor pentru tratamentul tumorilor hepatice, Cerere de brevet nr. A01143/24.12.2018	2018	5	2	1.00
21	Vaida, C., Plitea, N., Pîslă, D., Gherman, B., Suciu, M., Orientation module with multiple bends, Cerere de brevet A10112/2011	2011	5	2	1.00
					0.00
	Total				21.00

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

prim autor

Autori	Titlul	Editura	Anul editarii	ISBN	Nr. Pagini	Punctaj individual
B. Gherman, C. Vaida, D. Pisla	Programarea si utilizarea calculatoarelor, Vol. II Programare in limbajul C cu aplicatii in inginerie, Seria Utilizarea si programarea calculatoarelor, Coordonator: Prof. Dr. Ing. D. Pisla, Editura Mediamira, Cluj-Napoca, 2013, ISBN – 978-973-713-305-2, pp. 308	Mediamira	2013	978-973-713-305-2	308	1.00
						0.00
						0.00
						0.00
Total						1.00

N4.4 **Monografii/cărți de specialitate, format tipărit/electronic (min. 100 pag.)**

co - autor

Nr.crt	Autori	Titlul	Editura	Anul editarii	ISBN	Nr. Pagini	Punctaj individual
1	C. Vaida, D. Pisla, B. Gherman	Programarea şi utilizarea calculatoarelor, Vol. III, Programare în MATLAB cu aplicaţii în inginerie, Seria Utilizarea si porgramarea calculatoarelor, Coordonator: Prof. Dr. Ing. D. Pisla, Editura Mediamira, Cluj-Napoca, 2014, ISBN – 978-973-713-312-0, pp. 388	Mediamira	2014	978-973-713-312-0	388	1.00
	Total						1.00

N5 **Prezentarea/Diseminarea rezultatelor: prezență la manifestări științifice în calitate de autor/co-autor de lucrări, profesor invitat**

Nr. Crt.	Tipul activitatii: conferinta/ congres=1; workshop international=2; profesor invitat=3	Denumire Congress, workshop/Institutia unde a fost invitat	Anul /perioada (pt. prof. invitat)	Titlul lucrarii sustinute in calitate de autor sau co-autor/ Prelegeri expuse pt profesor invitat	link email/alte modalitati de justificare a activitatii	Punctaj realizat
1	3	Workshop international de Chirurgie Endoscopica a Ficatului, 2008	2008, Cluj-Napoca	Surgical robots - Past, Present and Future	https://scholar.google.ro/citations?hl=en&user=kxvf2UEAAAAJ&view_op=list_works	1.00
2	1	INTERNATIONAL CONFERENCE ON ADVANCEMENTS OF MEDICINE AND HEALTH CARE THROUGH TECHNOLOGY	SEP 23-26, 2009, Cluj-Napoca	Development of a control system for a parallel robot used in minimally invasive surgery	https://scholar.google.ro/citations?hl=en&user=kxvf2UEAAAAJ&view_op=list_works	1.00
3	1	SYROM 2009: PROCEEDINGS OF THE 10TH IFTOMM INTERNATIONAL SYMPOSIUM ON SCIENCE OF MECHANISMS AND MACHINES, 2009	OCT 12-15, 2009, Brasov	Workspace and singularity analysis for a reconfigurable parallel robot	https://scholar.google.ro/citations?hl=en&user=kxvf2UEAAAAJ&view_op=list_works	1.00
4	2	18th International Workshop on Robotics in Alpe-Adria-Danube Region (RAAD 2009)	May 25-27, 2009, Brasov	Design and Operation Issues for Parallel Robotic Devices	https://scholar.google.ro/citations?hl=en&user=kxvf2UEAAAAJ&view_op=list_works	1.00
5	1	3rd European Conference on Mechanisms Science (EUCOMES 2010 Conference)	SEP 14-18, 2010, Cluj-Napoca	Development of a Voice Controlled Surgical Robot	https://scholar.google.ro/citations?hl=en&user=kxvf2UEAAAAJ&view_op=list_works	1.00
6	1	IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR)	MAY 28-30, 2010, Cluj-Napoca	Singularities and Workspace Analysis for a Parallel Robot for Minimally Invasive Surgery	https://scholar.google.ro/citations?hl=en&user=kxvf2UEAAAAJ&view_op=list_works	1.00

7	2	International Workshop „ROBOMED 2010“ in the Frame of Alexander von Humboldt Foundation Project Fokoop -- DEU/1010959	14 Sep 2010, Cluj-Napoca	DEVELOPMENT OF NEW PARALLEL ROBOT FOR MINIMALLY INVASIVE SURGERY	https://scholar.google.ro/citations?hl=en&user=kxvf2UEAAAAJ&view_op=list_works	1.00
8	1	IEEE International Conference on Automation, Quality and Testing, Robotics	MAY 24-27, 2012, Cluj-Napoca	Integrated Control Techniques for PARASURG 9M Parallel Robot	https://scholar.google.ro/citations?hl=en&user=kxvf2UEAAAAJ&view_op=list_works	1.00
9	2	NEW TRENDS IN MEDICAL AND SERVICE ROBOTS INTERNATIONAL EXPLORATORY WORKSHOP (Mesrob)	30th June – 1st July 2012, Cluj-Napoca	INNOVATIVE APPROACHES IN MEDICAL ROBOTICS. ADAPTING TECHNOLOGY TO SURGERY	https://scholar.google.ro/citations?hl=en&user=kxvf2UEAAAAJ&view_op=list_works	1.00
10	1	SYROM 2013, Al XI-lea Simpozion International pentru Stiinta Mecanismelor si a Masinilor	11-12 noiembrie 2013, Brasov, România	An innovative family of modular parallel robots for brachytherapy	https://scholar.google.ro/citations?hl=en&user=kxvf2UEAAAAJ&view_op=list_works	1.00
11	1	2014 IEEE International Conference on Automation, Quality and Testing, Robotics AQTR 2014, - THETA 19th edition -	May 22-24 2014, Cluj-Napoca	Design and control system of a parallel robot for brachytherapy	https://scholar.google.ro/citations?hl=en&user=kxvf2UEAAAAJ&view_op=list_works	1.00
12	1	International Conference on Production Research - Regional Conference Africa, Europe and the Middle East (ICPR-AEM) / 3rd International Conference on Quality and Innovation in Engineering and Management (QIEM)	JUL 01-05, 2014, Cluj-Napoca	SMART Furniture - QUO VADIS	https://scholar.google.ro/citations?hl=en&user=kxvf2UEAAAAJ&view_op=list_works	1.00
13	1	IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR)	MAY 19-21, 2016, Cluj-Napoca, Romania	Development of a Control System for a HEXA Parallel Robot	https://scholar.google.ro/citations?hl=en&user=kxvf2UEAAAAJ&view_op=list_works	1.00
14	2	Workshop-ul International „Aplicatii actuale si viitoare ale BCI non-invazive si invazive"	22 mai 2017, Cluj-Napoca	Innovative Approaches Regarding Rehabilitation and Assistive Robotics for Healthy Ageing	https://scholar.google.ro/citations?hl=en&user=kxvf2UEAAAAJ&view_op=list_works	1.00

15	1	The 12th IFToMM International Symposium on Science of Mechanisms and Machines - SYROM'2017	November 02 - 03, 2017, Iasi, Romania	Preliminary design for a spherical parallel robot for shoulder rehabilitation	https://scholar.google.ro/citations?hl=en&user=kxvf2UEAAAAJ&view_op=list_works	1.00
16	1	6th International Symposium on Multibody Systems and Mechatronics – MuSMe	OCTOBER 24-28, 2017 – FLORIANÓPOLIS – BRAZIL	On the Kinematics of an Innovative Spherical Parallel Robot for the Shoulder Rehabilitation	https://scholar.google.ro/citations?hl=en&user=kxvf2UEAAAAJ&view_op=list_works	1.00
17	1	ASME 2018 International Design Engineering Technical Conferences & Computers and Information in Engineering Conference (IDETC/CIE 2018)	August 26-29, 2018 in Quebec City, Canada	MODELLING AND SIMULATION OF A ROBOTIC SYSTEM FOR LOWER LIMB REHABILITATION	https://scholar.google.ro/citations?hl=en&user=kxvf2UEAAAAJ&view_op=list_works	1.00
18	1	MEDITECH 2019 - Cluj-Napoca	17-20 Oct. 2018	Robotics in minimally invasive procedures: History, current trends and future challenges	https://scholar.google.ro/citations?hl=en&user=kxvf2UEAAAAJ&view_op=list_works	1.00
19	1	2021 25th International Conference on System Theory, Control and Computing (ICSTCC)	2021	Evaluation and selection of a collaborative robot for a tuberculosis sample collection isolated booth		1.00
20	1	2021 25th International Conference on System Theory, Control and Computing (ICSTCC)	2021	Inverse dynamic modeling of a parallel wrist rehabilitation robot towards an assistive control modality		1.00
21	1	2021 International Conference on e-Health and Bioengineering (EHB)	2021	Experimental Testing and Implementation of a Force–Torque Sensor in Automated Percutaneous Needle Insertion Instruments		1.00
22	1	New Trends in Medical and Service Robotics: MESROB 2021	2021	Novel Design of the ParReEx-Elbow Parallel Robot for the Rehabilitation of Brachial Monoparesis		1.00

23	1	Advances in Service and Industrial Robotics: RAAD 2022	2022	Geometric Modeling of a New Modular Spherical Robotic System for Single Incision Laparoscopic Surgery		1.00
24	1	2022 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR)	2022	HRI Based Command System of a Modular Parallel Robot for Brachial Monoparesis		1.00
25	1	ROMANSY 24-Robot Design, Dynamics and Control: Proceedings of the 24th CISM IFToMM Symposium	2022	Kinematic Modelling of a Parallel Robot Used in Single Incision Laparoscopic Surgery		1.00
	Total					25.00

S **Atragere resurse financiare prin granturi/proiecte/contracte terți**

Nr.crt	Calitatea: director = 1, membru in echipa = 2	Tip proiect *	Titlul proiectului	Perioada de derulare	Valoare totala UTCN** [ech. Euro]	Valoarea alocata membrului in echipa de catre directorul de proiect*** [ech. Euro]	Punctaj individual
1	1	Proiect ARUT	Instrument robotizat inovativ de tratament în procedurile chirurgicale abdominale - FOCUS, Granturi Nationale, GNaC 2018 ARUT, no. 3216/06.02.2019	2019	9850		9.85
2	2	International ESA cu terti	Manipulation Systems for Sample Handling in a Sample Receiving Facility", TASUK /16/11305/NBO/1424, ESA-European Space Agency	2018-2019	87389	8730	8.73
3	2	TE	Sistem multifuncţional pentru inserţia acelor în diagnosticul şi tratamentul cancerului, acronim ACCURATE, cod: PN-II-RU-TE-2014-4-0992 nr. contract 59/2015	2015-2016	88167	8810	8.81
4	2	PCCA	Sistem de Diagnosticare şi Terapie a Afecţiunilor Coloanei Vertebrale (SPINE)	2014-2016	36018	3600	3.60
5	2	PCCDI	Abordare inovativa de mare precizie privind tratamentul intraoperator asistat robotic al tumorilor hepatice pe baza diagnosticului integrat imagistic-molecular - IMPROVE	2018-2021	1149456.52	114945.65	114.95
6	2	PCCDI	Brahiterapia asistata robotic, o abordare inovativa in terapia cancerelor inoperabile - CHANCE	2012-2017	340425	34040	34.04
7	2	International - SRF	Creative Alliance in Research and Education focused on Medical and Service Robotics Proiect International	2012-2014	60810	0	0.00
8	2	POC	Dezvoltarea inovativă a unor sisteme robotice pentru reabilitare şi asistare în îmbătrânirea sănătoasă - AgeWell	2016-2020	864345	69150	69.15
9	2	PCCDI	Biopsia prostatei asistata robotic, o metoda inovativa de mare precizie - ROBOCORE	2014-2016	562480	56240	56.24
10	2	PCCDI	Dezvoltarea multidisciplinara de roboti chirurgicali bazati pe structuri paralele inovative - PARMIS	2007-2010	389537	38950	38.95

11	2	PCCDI	Innovative development of a virtual system for e-learning in hepatic endoscopic surgery – HEPSIM	2008-2011	67885	2500	2.50
12	2	International ESA cu terti	ASUK /16/11305/NBO/1424, ESA-European Space Agency	2017-2018	42000	4200	4.20
13	2	EIT Health	An innovative robotic system for upper limb rehabilitation – InnoHealth	2019	75000	11250	11.25
14	2	PCCDI - PTE	Cabina de protectie asistata robotic pentru recoltarea probelor biologice cu patogeni aeropurtati SAFE	2019-2021	275829.90	27582.99	27.58
15	1	EIT Health	Innovative robotic system for cancer treatment - HEAL4LIV	2020	75000		75.00
16	2	PCCDI - PED	SISTEM ROBOTIC MODULAR INOVATIV PENTRU RECUPERAREA MEDICALA A MONOPAREZEI BRAHIALE, 546PED din 02/11/2020	2020-2022	120000	12000	12.00
17	2	PCCDI - PED	INSTRUMENTE INOVATIVE GHIDATE ROBOTIC PENTRU TRATAMENTUL TUMORILOR MALIGNE, 397PED din 02/11/2020	2020-2022	120000	12000	12.00
18	2	PED	SISTEM ROBOTIC INOVATOR SI SIGUR PENTRU TRATAMENTUL IMBUNATATIT, ORIENTAT PE PACIENT, AL CANCERULUI DE FICAT, [ENHANCE]	2022-2024	29279	2927.9	2.93
19	2	PSCD	Sistem tip exoschelet pentru augmentare umană	2021-2024	360000	43200	43.20
20	2	PED	ROBOT MODULAR INOVATIV DE RECUPERARE PENTRU TRATAMENTUL EFICIENT AL DEFICITULUI MOTOR LA NIVELUL MEMBRULUI INFERIOR [HOPE2WALK]	2022-2024	29279	3220.69	3.22
21	2	PCE	CHALLENGE - Noi Frontiere În Chirurgia Uniport Asistată Robotic: Un Sistem Robotic Inovativ Cu Instrumente Cu Dexteritate Mărită	2021-2023	160770	12861.6	12.86
22	2	AAL	WisdomOfAge - Platforma Digitala Pentru Persoanele în Vârstă pentru Transferul Cunoștințelor spre Mediul Industrial	2021-2023	196910	29536.5	29.54
23	2	POC	Creșterea calității vieții pacienților prin sisteme telerobotice inteligente pentru tratamentul personalizat al deficitului neuromotor – APOLLO, Cod SMIS 2014+ 155988	2023	659100	19773	19.77
			Total				590.52

C **Citări în publicaţii BDI (WOS si Scopus)**

Nota: se exclud autocitarile

Nu se considera autocitare articolul in care apar autori din articolul citat, dar lipseste declarantul (persoana care completeaza Fisa de evaluare)

Nr.Crt.	Date de identificare complete ale articolul citat (se exclud autocitarile)***	Date de identificare complete ale articolelor care citeaza	Anul in care a fost citata lucrarea	Linkul articolului care citeaza	Factorul de impact al publicaţiei WOS în care apare	Punctaj individual
	Pisla, D., **Gherman, B.**, Vaida, C., Suciu, M. and Plitea, N., An active hybrid parallel robot for minimally invasive surgery, (2013), Robotics and Computer-Integrated Manufacturing, 29(4), pp. 203-221					
		Tao, Baoxin, et al. "The accuracy of a novel image-guided hybrid robotic system for dental implant placement: An in vitro study." The International Journal of Medical Robotics and Computer Assisted Surgery 19.1 (2023): e2452.	2023	https://onlinelibrary.wiley.com/doi/full/10.1002/rcs.2452	2.5	3.50
		Bian, Y., Zhao, J., Li, J., Wei, G., & Li, J. (2023). A class of spatial remote center-of-motion mechanisms and its forward kinematics. Robotica, 41(3), 885-899. doi:10.1017/S0263574722001047	2023	https://www.cambridge.org/core/journals/robotica/article/abs/class-of-spatial-remote-centerofmotion-mechanisms-and-its-forward-kinematics/812A9351D73B63D68854FD606303E127	2.7	3.70
		Antonov, A.; Fomin, A.; Glazunov, V.; Petelin, D.; Filippov, G. Type Synthesis of 5-DOF Hybrid (Parallel-Serial) Manipulators Designed from Open Kinematic Chains. Robotics 2023, 12, 98. https://doi.org/10.3390/robotics12040098	2023	https://www.mdpi.com/2218-6581/12/4/98	3.7	4.70
		Antonov, Anton, and Alexey Fomin. "Check for updates Mechanism Design and Inverse Kinematics of a 5-DOF Medical Assistive Manipulator." New Trends in Medical and Service Robotics: MESROB 2023 133 (2023): 334.	2023	https://books.google.ro/books?hl=en&lr=&id=16G_EAAAQBAJ&oi=fnd&pg=PA334&ots=frjYBF83YU&sig=aHCAqFGpRGaHq9dqNqQL-kinz60&redir_esc=y#v=onepage&q&f=false		1.00
		Antonov, A., Fomin, A. (2023). Mechanism Design and Inverse Kinematics of a 5-DOF Medical Assistive Manipulator. In: Tarnita, D., Dumitru, N., Pisla, D., Carbone, G., Geonea, I. (eds) New Trends in Medical and Service Robotics. MESROB 2023. Mechanisms and Machine Science, vol 133. Springer, Cham. https://doi.org/10.1007/978-3-031-32446-8_36	2023	https://link.springer.com/chapter/10.1007/978-3-031-32446-8_36		1.00
		Antonov, A. V., and A. S. Fomin. "Inverse kinematics of a 5-DOF hybrid manipulator." Autom. Remote Control 84.3 (2023): 317-330.	2023	https://www.researchgate.net/profile/Anton-Antonov-5/publication/370059343_Inverse_Kinematics_of_a_5-DOF_Hybrid_Manipulator/links/643ce31e2eca706c8b64b78b/Inverse-Kinematics-of-a-5-DOF-Hybrid-Manipulator.pdf		1.00
		Zidane, Iham F., et al. "Trajectory control of a laparoscopic 3-PUU parallel manipulator based on neural network in SIMSCAPE SIMULINK environment." Alexandria Engineering Journal 61.12 (2022): 9335-9363.	2022	https://www.sciencedirect.com/science/article/pii/S1110016822001910	6.626	7.63
		Zidane, I. F., Khattab, Y., Rezeka, S., & El-Habrouk, M. (2022). Robotics in laparoscopic surgery-A review. Robotica, 1-48.	2022	https://www.cambridge.org/core/journals/robotica/article/abs/robotics-in-laparoscopic-surgery-a-review/C0F998D889E4BF2D8283827C60B723BE	2.406	3.41
		Laryushkin, Pavel, et al. "Novel reconfigurable spherical parallel mechanisms with a circular rail." Robotics 11.2 (2022): 30.	2022	https://www.mdpi.com/2218-6581/11/2/30	3.7	4.70

		Moustris, George P., and Costas S. Tzafestas. "Modelling and Analysis of a Parallel Double Delta Mechanism for Robotic Surgery." 2022 30th Mediterranean Conference on Control and Automation (MED). IEEE, 2022.	2022	https://ieeexplore.ieee.org/abstract/document/9837231	0	1.00
		Parnell, Vienna. "Self-Folding Non-Invasive Miniature Robots: Progress and Trend in the Biomedical Field." Nano Biomedicine and Engineering 13.4 (2021): 329-343.	2021	https://scholar.google.com/scholar?oi=bibs&hl=en&cites=3963985049504918523&as_sdt=5&as_ylo=2021&as_yhi=2021	0	1.00
		Lee, T.H., Liang, W., de Silva, C.W., Tan, K.K. (2021). Optimal and Robust Contact Force Control on Soft Membrane. In: Force and Position Control of Mechatronic Systems. Advances in Industrial Control. Springer, Cham. https://doi.org/10.1007/978-3-030-52693-1_5	2021	https://link.springer.com/chapter/10.1007/978-3-030-52693-1_5	0	1.00
		Madrid, Joav, Tatiana Álvarez, and Ángel Luis Rodriguez. "Biopsy Robot Design for Breast Cancer Identification." VIII Latin American Conference on Biomedical Engineering and XLII National Conference on Biomedical Engineering: Proceedings of CLAIB-CNIB 2019, October 2-5, 2019, Cancún, México. Springer International Publishing, 2020.	2020	https://link.springer.com/chapter/10.1007/978-3-030-30648-9_131	0	1.00
		Ye, W., Li, Q. Type Synthesis of Lower Mobility Parallel Mechanisms: A Review. Chin. J. Mech. Eng. 32, 38 (2019). https://doi.org/10.1186/s10033-019-0350-x	2019	https://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=CitingArticles&qid=41&SID=C2mKvIfIUwT8spqhAcP&page=1&doc=4	0.164	1.16
		Özdemir, M. (2019). High-order singularities of 5R planar parallel robots. Robotica, 37(2), 233-245.	2019	https://apps.webofknowledge.com/full_record.do?product=UA&search_mode=CitingArticles&qid=45&SID=E4O1T51irUjvuEGJeeW&page=1&doc=5	1.509	2.51
		Yen, P. L., Wang, C. H., Lin, H. T., & Hung, S. S. (2019). Optimization design for a compact redundant hybrid parallel kinematic machine. Robotics and Computer-Integrated Manufacturing, 58, 172-180.	2019	https://www.sciencedirect.com/science/article/pii/S0736584518304381	5.057	6.06
		Li, Y., Sun, P., Qi, H., & Luo, Y. (2019). Prototyping of a novel anthropomorphic mechanical leg. Advances in Mechanical Engineering, 11(12), 1687814019893802.	2019	https://journals.sagepub.com/doi/full/10.1177/1687814019893802	1.161	[illegible]
		Cao, W. A., Xu, S. J., Rao, K., & Ding, T. (2019). Kinematic Design of a Novel Two Degree-of-Freedom Parallel Mechanism for Minimally Invasive Surgery. Journal of Mechanical Design, 141(10).	2019	https://asmedigitalcollection.asme.org/mechanicaldesign/article-abstract/141/10/104501/727270	2.652	3.65
1		Kundong Wang, Qingsheng Lu, Bin Chen, Yu Shen, Hongbing Li, Manhua Liu, Zhuoyan Xu, Endovascular intervention robot with multi-manipulators for surgical procedures: Dexterity, adaptability, and practicability, Robotics and Computer-Integrated Manufacturing, Volume 56, 2019, Pages 75-84, ISSN 0736-5845, https://doi.org/10.1016/j.rcim.2018.09.004.	2019	https://doi.org/10.1016/j.rcim.2018.09.004.	3.464	4.46
2		W. Liang, J. Ma and K. K. Tan, "Contact Force Control on Soft Membrane for an Ear Surgical Device," in IEEE Transactions on Industrial Electronics, vol. 65, no. 12, pp. 9593-9603, Dec. 2018.	2018	https://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=5&SID=F54c2OUxT5QeXbGxM1L&page=1&doc=1	7.05	8.05
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