

PERSONAL INFORMATION

Doina Liana Pislă



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Skype doinapislă

Sex Female | Date of birth | Nationality Romania

WORK EXPERIENCE

- | | |
|--------------|--|
| 2001–Present | Director Research Center for Industrial Robots Simulation and Testing (CESTER)
Technical University of Cluj-Napoca, Cluj-Napoca (Romania)
The main research activities of CESTER are focused on the development of parallel robots in different domains: robots for medicine (surgery and oncology), industrial applications, reconfigurable robots, microrobots and service robots. |
| 2016–Present | Director of the Council of Doctoral Studies (CSUD)
Technical University of Cluj-Napoca, Cluj-Napoca (Romania) |
| 2012–2016 | Deputy Director of the Doctoral Studies School of Mechanical Engineering
Technical University of Cluj-Napoca, Cluj-Napoca (Romania) |
| 2012–2016 | Scientific vice-dean
Technical University of Cluj-Napoca, Cluj-Napoca (Romania)
Faculty of Machine Building |
| 2005–Present | Full professor
Technical University of Cluj-Napoca, Cluj-Napoca (Romania)
Teaching activities in robotics, computer programming, research activities in robotics and mechatronics, advanced simulation techniques, kinematics and dynamics of parallel robotic structures, mini and micro-robots, medical robots, e-learning platforms and medical simulators
Main lectures: Computer programming I and II (BSc), Modelling and Simulation of Robotic Structures (B.Sc. in Romanian and English), Medical Robotics (M.Sc. in Romanian and English)
PhD supervisor since 2007 Domain: Mechanical Engineering |
| 2001–2005 | Associate professor
Technical University of Cluj-Napoca, Cluj-Napoca (Romania)
Teaching activities in robotics, computer programming, research activities in robotics and mechatronics, advanced simulation techniques, kinematics and dynamics of parallel and series robotic structures, mini and micro-robots |
| 1998–2001 | Lecturer
Technical University of Cluj-Napoca, Cluj-Napoca (Romania)
Teaching activities in robotics, computer programming, research activities in robotics and mechatronics, kinematics and dynamics of parallel and series robotic structures |

- 1991–1998 **Assistant professor**
 Technical University of Cluj-Napoca, Cluj-Napoca (Romania)
 Teaching activities in robotics, computer programming, research activities in robotics and mechatronics

EDUCATION AND TRAINING

- 2001–2002 **Postgraduate program**
 Technical University of Cluj-Napoca, Cluj-Napoca (Romania)
 Technical Informatics on Computer Assisted Technologies (1.5 years)
- 1999–1999 **Invited researcher in postdoctoral programme (financed by DAAD, Germany)**
 Institut für Werkzeugmaschinen und Fertigungstechnik, Technische Universität “Carolo Wilhelmina” zu Braunschweig, Braunschweig (Germany)
 Specialization: Robotics
- 1991–1998 **Doctoral Studies** EQF level 8
 Technical University of Cluj-Napoca, Cluj-Napoca (Romania)
 Research in Robotics and Mechanical Engineering. PhD Thesis: "Research on the graphical simulation of industrial robots based on the kinematic and dynamic modelling of spatial structures"
- 1997–1997 **Invited researcher during doctoral studies (financed by Technical University of Braunschweig, Germany)**
 Institut für Werkzeugmaschinen und Fertigungstechnik, Technische Universität “Carolo Wilhelmina” zu Braunschweig, Braunschweig (Germany)
 Specialization: Robotics
- 1994–1994 **Diploma of Attendance at the European Workshop on Renewable Energies**
 Fachinformationszentrum Karlsruhe, Karlsruhe (Germany)
 Specialization: Renewable energies, solar and eolian systems, hydrogen production
- 1993–1994 **Invited researcher during doctoral studies (financed by KAAD, Germany) (finantat de KAAD, Germania)**
 Institut für Werkzeugmaschinen und Fertigungstechnik, Technische Universität “Carolo Wilhelmina” zu Braunschweig, Braunschweig (Germany)
 Specialization: Robotics
- 1986–1991 **Mechanical engineer, first in the class (Excellence diploma)**
 Technical University of Cluj-Napoca, Cluj-Napoca (Romania)
 Specialization: Manufacturing Engineering

PERSONAL SKILLS

Mother tongue(s) Romanian

Foreign language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
German	C1	C1	C1	C1	C1
English	C1	C1	C1	C1	C1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
Common European Framework of Reference for Languages

Communication skills Team spirit, communicative, solidarity, honesty, fairness, responsibility, dynamism

Organisational / managerial skills Good organizer and manager, education and research abilities, problem-solving-attitude, ability to respect deadlines for project activities

Job-related skills Competences in kinematic and dynamic modelling of robots, programming of robots and mechanical systems, CAD of robots.
Scientific Coordination and management of research projects
Expertize in writing scientific papers in ISI and BDI journals
Participation at many international conferences in congresses
Coordination of international conferences and workshops

Digital skills	SELF-ASSESSMENT				
	Information processing	Communication	Content creation	Safety	Problem-solving
	Proficient user	Proficient user	Proficient user	Independent user	Proficient user

Digital skills - Self-assessment grid

C++, Matlab, Fortran, MSC Adams, MathCAD, Solid Edge, NX, AutoCAD, Corel DRAW, MS Office, Latex, control programming languages etc.

Driving licence B

ADDITIONAL INFORMATION

Scientific Publications Over 30 papers published in ISI indexed journal, over 100 papers published at International Conferences and indexed journals
H Index: 18 (Web of Science), 20 (Scopus), 24 (Google Scholar)

Projects National and international research grants: over 30
Research grants coordinator: over 20

Memberships Member of the Romanian Society of Robotics since 2002
Member of GAMM - International Association of Applied Mathematics and Mechanics (Gesellschaft für Angewandte Mathematik und Mechanik) since 1995
Member of the Romanian Association of Machine and Mechanism Theory (AroTMM)
Member of International Federation for the Promotion of Mechanism and Machine Science (IFTOMM) since 1998
Member of the Technical Committee „Computational Kinematics” of the international

organization IFTOMM since 2007

Member of the Technical Committee „Biomechanical Engineering” of IFTOMM since 2007

Coordinator of the Technical Committee „Computational Kinematics” of the international organization IFTOMM, 2009 - 2015

Member of EURobotics, <http://eu-robotics.net>

Vice-president of AroTMM since 2013

International expert for Research Evaluation in Italy since 2016

International reviewer in the PhD Defense Committee of PhD. Student David Mauricio Alba Lucero within the CARLOS III University, Madrid, Spain, thesis entitled Kinematic and Dynamic Analysis for Biped Robots Design (2011)

Chair of the “European Conference on Mechanism Science-EUCOMES 2010, Cluj-Napoca, 2010 (110 participants 60% from abroad).

Co-Chair of “International Workshop in Medical and Service robots-MESROB 2012, Cluj-Napoca, June 2012

Chair and organizer of „International Summer School on Models and Methods in Kinematics and Robotics”, July 2012, Cluj-Napoca (over 45 PhD students from all over the world)

Co-Chair of “International Workshop in Medical and Service robots-MESROB 2013, Belgard, July 2013

Co-Chair of “International Workshop in Medical and Service robots-MESROB 2014, Lausanne, July 2014,

President of the Award Committee EUCOMES 2016,
<http://eucomes2016.irccyn.ec-nantes.fr/committees.php>

Full membership in EU-Robotics, a European Society responsible in the definition of the strategic research agenda for robotics in Europe

Coordinator of EASMUS+ programmes in universities from France, Germany, Italy, Portugal and Spain

Honours and awards

Special prize of OSIM (Romanian Office for Inventions and Trademarks) for the patent Surgical Robot, no. RO-126271, Iasi, 2014

Special prize of the Romanian Ministry of National Education for the patent Parallel robot for brachytherapy with two kinematic guiding chains of the platform (the needle) type CYL-U, October 2014

WIIPA Special Award – IPITEx 2019 Bangkok, Thailand;

TISIAS Special Honour of Innovation – IPITEx 2019 Bangkok, Thailand;

Certificate of Appreciation from the Indian Inovators Association – IPITEx 2019 Bangkok, Thailand;

Gold Medal from the National Research Council of Tailand – IPITEx 2019 Bangkok, Thailand.

The Grand prize of the Romanian Inventors Forum – PROINVENT 2019, Cluj-Napoca;

Gold Medal from the Toronto International Society of Innovation & Advance Skills

within the International Invention Innovation Competition, iCAN 2022, Toronto, Canada

“Traian Vuia” Prize of the Romanian Academy for Innovation in medical parallel robots, December 2022

Invited / Keynote Lecturer

1. Pislă, D., Innovative Approaches in Surgical Robotics - Past, Present and Future , The 2nd IFTOMM Asian Conference on Mechanism and Machine Science, Tokyo, Japan, 2012, <http://www.jc-iftomm.org/Asian-MMS2012/>

2. Pislă, D., Research Challenges in Robotic Assisted Brachytherapy, MESROB 2014, Lausanne, Switzerland, 2014, <http://mesrob.epfl.ch/page-104220-en.html>

3. Pislă, D., Trends And Technological Innovations In Surgical Robotics, VIth International Conference on Robotics, Robotics 2014, Bucharest, Romania, 2014, http://www.cester.utcluj.ro/chance/realizari/robotics_2014.pdf

4. Pislă, D., Innovative Approaches in Medical Robotics, ICOME 2015, Craiova, 2015

5. Pislă, D., Innovative Approaches in Medical Robotics, 7th IFTOMM International Workshop on Computational Kinematics, CK 2017, Futuroscope-Poitiers, France

Publications (Detailed) Books (author or co-author): 10.

Scientific publications: over 150 indexed papers (over 35 in ISI indexed journals)

Excerpt (5 relevant publications in the last years)

Tohanean N, Tucan P, Vanta O-M, Abrudan C, Pintea S, Gherman B, Burz A, Banica A, Vaida C, Neguran DA, Ordog A, Tarnita D, **Pisla D**. The Efficacy of the NeuroAssist Robotic System for Motor Rehabilitation of the Upper Limb—Promising Results from a Pilot Study. *Journal of Clinical Medicine*; 2023, 12(2):425 (IF 4.964).

Tucan, P.; Vaida, C.; Horvath, D.; Caprariu, A.; Burz, A.; Gherman, B.; Iakab, S.; **Pisla, D**. Design and Experimental Setup of a Robotic Medical Instrument for Brachytherapy in Non-Resectable Liver Tumors. *Cancers*, 2022, 14, 5841 (IF 6.575).

Pisla, D.; Birlescu, I.; Crisan, N.; Pusca, A.; Andras, I.; Tucan, P.; Radu, C.; Gherman, B.; Vaida, C. Singularity Analysis and Geometric Optimization of a 6-DOF Parallel Robot for SILS. *Machines* 2022, 10, 764 (IF 2.899)

Pisla, D., Vaida, C., Birlescu, I., Hajjar, N.A., Gherman, B., Plitea, N.: Risk Management for the Reliability of Robotic Assisted Treatment of Non-resectable Liver Tumors, *Applied Sciences*, vol. 10(1), 52, 2020 (IF 2.838)

Husty, M., Birlescu, I., Tucan, P., Vaida, C., **Pisla, D.**: An algebraic parameterization approach for parallel robots analysis, *Mechanism and Machine Theory*, vol. 140, pp. 245-257, 2019 (ISI Journal, Impact factor: 3.535)

National and International research grants (Detailed)

Total: 30

Excerpt (5 representative grants)

1. National Research Grant – 1-PSCD/2022, financed by the Ministry of National Defence, *Exoskeleton system for human augmentation* (MAN-X) (2022-2025)

Position: Coordinator

Budget: 1.200.000 Eur

2. National Exploratory Research Grant financed by the Executive Agency for Higher Education, Research, Development and Innovation Funding (UEFISCDI) - PN-III-P4-ID-PCE-2020-0572, PCE 171, New frontiers in robotic assisted single port surgery: a novel robotic system with dexterous instruments (Challenge) (2021-2023)

Position: Coordinator

Budget: 240.000 Eur

3. National Complex Project for Research, Development and Innovation, financed by the Executive Agency for Higher Education, Research, Development and Innovation Funding (UEFISCDI) no. 59/01.03.2018, code: PN-III-P1-1.2-PCCDI2017-0221, *High accuracy innovative approach for the robotic assisted intraoperative treatment of hepatic tumours based on imagistic-molecular diagnosis* (IMPROVE) (2017-2020)

Position: Coordinator

Budget: 1.600.000 Eur

4. National Research Grant within Competitiveness Operational Programme 2016-2020 - ID P_37_215, No. 20/01.09.2016, *Innovative Approaches Regarding Rehabilitation and Assistive Robotics for Healthy Ageing* (AgeWell) (2016-2020)

Position: Vice-Manager and Scientific Coordinator

Budget: 1.685.000 Eur

5. International project funded by the European Space Agency (ESA): *Manipulation Systems for Sample Handling in a Sample Receiving Facility*, TASUK/16/11305/NBO/1424 (2016-2018) Position: Coordinator

Budget: 400.000 Eur

Prof. dr. ing. Doina PISLA



Cluj-Napoca, 18.01.2023

Prof. dr. ing. Doina PISLA

LIST WITH THE MOST RELEVANT PUBLICATIONS

A. Book contributions

1. Nadas I. A., **Pisla D.**, Vaida C., Gherman B., Carbone G., Towards Cost-Oriented User-Friendly Robotic Systems for Post-Stroke Rehabilitation, In Handbook of Research on Biomimetics and Biomedical Robotics, ed. Maki Habib, 99-141 (2018), doi:10.4018/978-1-5225-2993-4.ch005
2. Vaida, C., Gherman, B., **Pisla, D.**, Computer programming, Vol. III, MATLAB Programming for engineers, series coordinated by Prof. Dr. Ing. **D. Pisla**, Ed. Mediamira, Cluj-Napoca, 2014, ISBN- 978-973-713-312-0 (published in Romanian)
3. Gherman, B., Vaida, C., **Pisla, D.**, Computer programming, Vol. II, Programming in C with applications in engineering, series coordinated by Prof. Dr. Ing. **D. Pisla**, Ed. Mediamira, Cluj-Napoca, 2013, ISBN- 978-973-713-305-2 (published in Romanian)
4. Vaida, C., **Pisla, D.**, Computer programming, Vol. I Computer using skills. Applications, series coordinated by Prof. Dr. Ing. **D. Pisla**, Ed. Mediamira, Cluj-Napoca, 2008, ISBN – 978-973-713-247-5 (published in Romanian)
5. Wenger, P., Chevallereau, C., **Pisla, D.**, Bleuler, H., Rodić, A. (Eds.), New Trends in Medical and Service Robots, Human Centered Analysis, Control and Design, Springer, 2016, 310 pp.
6. Bleuler, H., Bouri, M., Mondada, F., **Pisla, D.**, Rodić, A., Helmer, P. (Eds.), New Trends in Medical and Service Robots, Assistive, Surgical and Educational Robotics, Springer, 2016, 254 pp.
7. Rodić, A., **Pisla, D.**, Bleuler, H. (Eds.), New Trends in Medical and Service Robots, Challenges and Solutions, Springer, 2014, 384 pp.
8. **Pisla, D.**, Bleuler, H., Rodić, A., Vaida, C., Pisla, A. (Eds.), New Trends in Medical and Service Robots, Theory and Integrated Applications, Springer, 2014, 238 pp.
9. **Pisla D.**, Ceccarelli, M., Husty, M., Corves, B., (Eds.), New Trends in Mechanism Science, Analysis and Design, Springer, 2010, 708 pages.
10. **Pisla, D.**, Kinematic and dynamic modeling of parallel robots, Dacia, 2005, 207 pp.

B. Peer-reviewed articles (original publications)

1. Tohanean N, Tucan P, Vanta O-M, Abrudan C, Pintea S, Gherman B, Burz A, Banica A, Vaida C, Neguran DA, Ordog A, Tarnita D, **Pisla D.** The Efficacy of the NeuroAssist Robotic System for Motor Rehabilitation of the Upper Limb—Promising Results from a Pilot Study. Journal of Clinical Medicine; 2023, 12(2):425 (IF 4.964).
2. Tucan, P.; Vaida, C.; Horvath, D.; Caprariu, A.; Burz, A.; Gherman, B.; Iakab, S.; **Pisla, D.** Design and Experimental Setup of a Robotic Medical Instrument for Brachytherapy in Non-Resectable Liver Tumors. Cancers, 2022, 14, 5841 (IF 6.575).
3. Graur, F.; Ciocan, R.A.; Ciocan, A.; Puia, I.C.; Mois, E.; Furcea, L.; Zaharie, F.; Popa, C.; Schlanger, D.; Vaida, C.; **Pisla, D.**; Al Hajjar, N. Trends in Minimally Invasive Approaches for Liver Resections—A Systematic Review. J. Clin. Med. 2022, 11, 6721, (IF 4.964).

4. **Pisla, D.;** Birlescu, I.; Crisan, N.; Pusca, A.; Andras, I.; Tucan, P.; Radu, C.; Gherman, B.; Vaida, C. Singularity Analysis and Geometric Optimization of a 6-DOF Parallel Robot for SILS. *Machines* 2022, 10, 764 (IF 2.899).
5. Tarnita, D.; Geonea, I.D.; **Pisla, D.;** Carbone, G.; Gherman, B.; Tohanean, N.; Tucan, P.; Abrudan, C.; Tarnita, D.N. Analysis of Dynamic Behavior of ParReEx Robot Used in Upper Limb Rehabilitation. *Appl. Sci.* 2022, 12, 7907, (IF 2.838).
6. Pisla, D.; Birlescu, I.; Pusca, A.; Tucan, P.; Gherman, B.; Pisla, A.; Antal, T.; Vaida, C. Kinematics and workspace analysis of an innovative 6-dof parallel robot for SILS. *Proceedings of the Romanian Academy Series A - Mathematics Physics Technical Sciences Information Science*. Vol. 23(3), 277-286, 2022 (IF 1.523).
7. Nadas, I., Tucan, P., Gherman, B., Banica, A., Rednic, V., Carbone, G., **Pisla, D.** On the design and validation of a parallel robot for lower limb rehabilitation, *The Romanian Journal of Technical Sciences. Applied Mechanics*, Vol. 67(2), 2022
8. Gherman, B.; Hajjar, N.A.; Tucan, P.; Radu, C.; Vaida, C.; Mois, E.; Burz, A.; **Pisla, D.** Risk Assessment-Oriented Design of a Needle Insertion Robotic System for Non-Resectable Liver Tumors. *Healthcare* 2022, 10, 389. (ISI Journal, Impact factor: 3.160)
3. **Pisla, D.,** Vaida, C., Birlescu, I., Hajjar, N.A., Gherman, B., Plitea, N.: Risk Management for the Reliability of Robotic Assisted Treatment of Non-resectable Liver Tumors, *Applied Sciences*, vol. 10(1), 52, 2020 (ISI Journal, Impact factor: 2.838)
4. Vaida, C., Nae, L., Deriaz, M., Pisla, A., Oprea, E., Gherman, B., Mircea, A., Stulens, L., **Pisla, D.** User needs and requirements analysis for a seniors dedicated ai driven knowledge transfer platform, *Acta Technica Napocensis - series: Applied Mathematics, Mechanics, And Engineering*, vol. 64(4s), 2021 (ISI Journal)
5. Geonea, I.D.; Tarnita, D.; **Pisla, D.;** Carbone, G.; Bolcu, A.; Tucan, P.; Georgescu, M.; Tarniță, D.N. Dynamic Analysis of a Spherical Parallel Robot Used for Brachial Monoparesis Rehabilitation. *Appl. Sci.* 2021, 11, 11849. (ISI Journal, Impact factor: 2.838)
6. Gherman, B., Puskas, F., Tucan, P., Roman, C., Pisla, A., Vaida, C., Birlescu, I., **Pisla, D.** A robotic-assisted sputum collection booth, *Acta Technica Napocensis - series: Applied Mathematics, Mechanics, And Engineering*, vol. 64(4s), 2021 (ISI Journal)
7. **Pisla, D.,** Andras, I., Vaida, C., Crisan, N., Ulinici, I., Birlescu, I., Plitea, N. New approach to hybrid robotic system application in single incision laparoscopic surgery, *Acta Technica Napocensis - series: Applied Mathematics, Mechanics, And Engineering*, vol. 64(3), 2021 (ISI Journal)
8. **Pisla, D.,** Nae, L., Vaida, C., Oprea, E., Pisla, A., Gherman, B., Antal, T., Riessenberger, K., Plitea, N. Development of a learning management system for knowledge transfer in engineering, *Acta Technica Napocensis - series: Applied Mathematics, Mechanics, And Engineering*, vol. 64(3), 2021 (ISI Journal)
9. **Pisla, D.;** Tarnita, D.; Tucan, P.; Tohanean, N.; Vaida, C.; Geonea, I.D.; Bogdan, G.; Abrudan, C.; Carbone, G.; Plitea, N. A Parallel Robot with Torque Monitoring for Brachial Monoparesis Rehabilitation Tasks. *Appl. Sci.* 2021, 11, 9932. (ISI Journal, Impact factor: 2.838)
10. **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* 2021, 10, 277. (ISI Journal, Impact factor: 1.994)
11. Major, Z.Z.; Vaida, C.; Major, K.A.; Tucan, P.; Brusturean, E.; Gherman, B.; Birlescu, I.; Craciunaș, R.; Ulinici, I.; Simori, G.; Banica, A.; Pop, N.; Burz, A.; Carbone, G.; **Pisla, D.** Comparative Assessment of Robotic versus Classical Physical Therapy Using Muscle Strength and Ranges of Motion Testing in Neurological Diseases. *J. Pers. Med.* 2021, 11, 953. (ISI Journal, Impact factor: 4.945)
12. **Pisla, D.,** Carami, D., Gherman, B., Soleti, G., Ulinici, I., Vaida, C. A novel control architecture for robotic-assisted single incision laparoscopic surgery, *The Romanian Journal of Technical Sciences. Applied Mechanics*. Vol. 66(2), pp. 141-162, 2021

13. Chiroiu, V., Nedelcu, N., **Pisla, D.** et al. On the flexible needle insertion into the human liver. *Sci Rep* 11, 10251 (2021). (ISI Journal, Impact factor: 4.380)
14. 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. *Int. J. Environ. Res. Public Health* 2021, 18, 3281. (ISI Journal, Impact factor: 3.390)
15. **Pisla, D.**, Birlescu, I., Mois, E., Tucan, P., Radu, C., Burz, A., Gherman, B., Antal, T., Vaida, C. Al Hajjar, N. Simulation and control of an innovative medical parallel robot used for HCC treatment procedure, *Acta Technica Napocensis - series: Applied Mathematics, Mechanics, And Engineering*, vol. 64(1-S2), 2021 (ISI Journal)
16. Nadas, I., Gherman, B., Albert, S., Surducu, V., Pop, N., Carbone, G., Banica, A., **Pisla, D.**, Innovative Development of a Parallel Robotic System for Lower Limb Rehabilitation, *Acta Technica Napocensis - series: Applied Mathematics, Mechanics, And Engineering*, vol. 64(1-S2), 2021 (ISI Journal)
17. Radu, C.; Fisher, P.; Mitrea, D.; Birlescu, I.; Marita, T.; Vancea, F.; Florian, V.; Tefas, C.; Badea, R.; Ștefănescu, H.; Nedevschi, S.; **Pisla, D.**; Hajjar, N.A. Integration of Real-Time Image Fusion in the Robotic-Assisted Treatment of Hepatocellular Carcinoma. *Biology* 2020, 9, 397. (ISI Journal, Impact factor: 5.079)
18. Major, Z.Z.; Vaida, C.; Major, K.A.; Tucan, P.; Simori, G.; Banica, A.; Brusturean, E.; Burz, A.; Craciunas, R.; Ulinici, I.; Carbone, G.; Gherman, B.; Birlescu, I.; Pisla, D. The Impact of Robotic Rehabilitation on the Motor System in Neurological Diseases. A Multimodal Neurophysiological Approach. *Int. J. Environ. Res. Public Health* 2020, 17, 6557. (ISI Journal, Impact factor: 3.390)
19. Birlescu, I.; Husty, M.; Vaida, C.; Gherman, B.; Tucan, P.; Pisla, D. Joint-Space Characterization of a Medical Parallel Robot Based on a Dual Quaternion Representation of SE(3). *Mathematics* 2020, 8, 1086. (ISI Journal, Impact factor: 2.258)
20. Vaida, C., Plitea, N., Al Hajjar, N., Burz, A., Graur, F., Gherman, B., **Pisla, D.** A new robotic system for minimally invasive treatment of liver tumours, *Proc. Rom. Acad. Ser. A Math. Phys. Tech. Sci. Inf. Sci.*, Vol. 21, pp. 273-280 2020. (ISI Journal, Impact factor: 1.523)
21. Vaida C., Birlescu, I., Pisla, A., Ulinici, I., Tarnita, D., Carbone, G., **Pisla, D.** "Systematic Design of a Parallel Robotic System for Lower Limb Rehabilitation," in *IEEE Access*, vol. 8, pp. 34522-34537, 2020, doi: 10.1109/ACCESS.2020.2974295. (ISI Journal, Impact factor: 3.367)
22. Tucan, P.; Gherman, B.; Major, K.; Vaida, C.; Major, Z.; Plitea, N.; Carbone, G.; Pisla, D. Fuzzy Logic-Based Risk Assessment of a Parallel Robot for Elbow and Wrist Rehabilitation. *Int. J. Environ. Res. Public Health* 2020, 17, 654. (ISI Journal, Impact factor: 3.390)
23. Birlescu, I., Husty, M., Vaida, C., Plitea, N., Nayak, A., **Pisla, D.**: Complete Geometric Analysis Using the Study SE (3) Parameters for a Novel, Minimally Invasive Robot Used in Liver Cancer Treatment, *Symmetry*, vol. 11(12), 2019 (ISI Journal, Impact factor: 2.143)
24. Husty, M., Birlescu, I., Tucan, P., Vaida, C., **Pisla, D.**: An algebraic parameterization approach for parallel robots analysis, *Mechanism and Machine Theory*, vol. 140, pp. 245-257, 2019 (ISI Journal, Impact factor: 3.535)
25. Tarnita, D., **Pisla, D.**, Geonea, I., Vaida, C., Catana, M., Tarnita D.N.: Static and Dynamic Analysis of Osteoarthritic and Orthotic Human Knee, *Journal of Bionic Engineering*, vol. 16(3), pp. 514-525, 2019 (ISI Journal, Impact factor: 2.463)
26. Major, K.K., Major, Z.Z., Craciunas, F., Carbone, G., Vaida, C., **Pisla, D.**: Efficiency of Transcranial Magnetic Stimulation in Progressive Supranuclear Palsy: Estimation Using Goniometry and Dinamometry, *Neurophysiology*, vol. 51(1), pp. 57-62, 2019 (ISI Journal, Impact factor: 0.267)
27. Tucan, P., Vaida, C., Plitea, N., Pisla, A., Carbone, G., **Pisla, D.**: Risk-Based Assessment Engineering of a Parallel Robot Used in Post-Stroke Upper Limb Rehabilitation, *Sustainability*, vol. 11(10), 2893, 2019 (ISI Journal, Impact factor: 2.592)

28. 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*, vol. 62(2), 2019 (ISI Journal)
29. **Doina Pisla**, Iosif Birlescu, Calin Vaida, Paul Tucan, Adrian Pisla, Bogdan Gherman, Nicolae Crisan, Nicolae Plitea, Algebraic modeling of kinematics and singularities for a prostate biopsy parallel robot, *Proceedings of the Romanian Academy, series A*, vol. 19(3), pp. 489-497, 2018 (ISI Journal, Impact Factor: 1.658)
30. **D. Pisla**, P. Tucan, B. Gherman, N. Crisan, I. Andras, C. Vaida, N. Plitea "Development of a parallel robotic system for transperineal biopsy of the prostate", *Mech. Sci.*, 8, 195-213, 2017 (ISI Journal, Impact Factor: 1.211)
31. **D. Pisla**, B. Galdau, F. Covaciu, C. Vaida (c.a.), D. Popescu, N. Plitea, "Safety Issues in the Development of the Experimental Model for an Innovative Medical Parallel Robot used in Brachytherapy", *International Journal of Production Research*, Vol. 55(3), pp. 684-699, 2016 (ISI Journal, Impact Factor: 2.325)
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