



Europass Curriculum Vitae



Personal information

First name(s) / Surname(s) **DOINA LIANA/ PISLA**

Address(es) 26/7, Hateg Str. ,RO-400697 Cluj-Napoca, ROMANIA

Telephone(s) (+40)-364-268989 Mobile: (+40)-728-858993

Fax(es) (+40)-264-401765

E-mail doina.pisla@mep.utcluj.ro, doinapisla@yahoo.com

Nationality Romanian

Date of birth February, 2, 1968

Gender female

Occupational field **EDUCATION AND RESEARCH**

Work experience

Dates 2001-Present

Occupation or position held Director of the Research Center for Industrial Robots Simulation and Testing (CESTER)

Main activities and responsibilities CESTER is highly competent in robotics, mechanical engineering, and information technology. Our expertise is focused mainly on modelling and simulation techniques and advanced control of: medical robots; reconfigurable robots; microrobots; service robots.

Name and address of employer Management and research activities
Technical University of Cluj-Napoca, Romania

Type of business or sector Research

Dates 2016-Present

Occupation or position held Director of the Council of Doctoral Studies (CSUD)

Main activities and responsibilities Management activities of the doctoral studies

Name and address of employer Technical University of Cluj-Napoca, Romania

Type of business or sector Education

Dates 2012-2016

Occupation or position held Deputy Director of the Doctoral Studies School of Mechanical Engineering

Main activities and responsibilities Management activities regarding the doctoral studies in the Mechanical Engineering field

Name and address of employer Technical University of Cluj-Napoca, Romania

Type of business or sector Education

Dates 2012-2016

Occupation or position held Scientific vice-dean

Main activities and responsibilities	Management activities in the scientific filed at the Machine Building Faculty
Name and address of employer	Technical University of Cluj-Napoca, Romania
Type of business or sector	Education
Dates	2005-present
Occupation or position held	Full Professor at the Department of Mechanical Systems Engineering, Machine Building Faculty, Technical University of Cluj-Napoca 2012-2016 - Vice-Dean Faculty of Machine Building Faculty, Technical University of Cluj-Napoca 2016 – present - Director of the Council of Academic Doctoral Studies, Technical University of Cluj-Napoca
Main activities and responsibilities	Teaching activities in Robotics, Computer programming, Medical Robotics, research activities in Robotics and mechatronics, Kinematics and dynamics of serial and parallel robots, Medical robotics, Mini- and microrobots, Computer and simulation techniques, E-learning platforms and simulators for medicine
Name and address of employer	Technical University of Cluj-Napoca, Memorandumului, 28, RO-400114 Cluj-Napoca, Romania, www.utcluj.ro
Type of business or sector	Education and research
Dates	2001-present
Occupation or position held	Director “Center for Industrial Robots Simulation and Testing”, Technical University of Cluj-Napoca
Main activities and responsibilities	Management and Research activities in Robotics and mechatronics, Computer and simulation techniques, Kinematics and dynamics of serial and parallel robots, Mini- and microrobots, Surgical robots, E-learning platforms and simulators for medicine
Name and address of employer	Technical University of Cluj-Napoca, Memorandumului, 28, RO-400114 Cluj-Napoca, Romania, www.utcluj.ro
Type of business or sector	Education and research
Dates	2001-2005
Occupation or position held	Associate Professor at the Department of Mechanics and Computer Programming, Technical University of Cluj-Napoca
Main activities and responsibilities	Teaching activities in robotics, computer programming, research activities in Robotics and mechatronics, Computer and simulation techniques, Kinematics and dynamics of serial and parallel robots, Mini- and microrobots.
Name and address of employer	Technical University of Cluj-Napoca, Daicoviciu, 15, RO-400020 Cluj-Napoca, Romania, www.utcluj.ro
Type of business or sector	Education and research
Dates	1998-2001
Occupation or position held	Lecturer, Ph.D at the Department of Mechanics and Computer Programming, Technical University of Cluj-Napoca
Main activities and responsibilities	Teaching activities in robotics, computer programming, research activities in Robotics and mechatronics, Computer and simulation techniques, Kinematics and dynamics of serial and parallel robots
Name and address of employer	Technical University of Cluj-Napoca, Daicoviciu, 15, RO-400020 Cluj-Napoca, Romania, www.utcluj.ro
Type of business or sector	Education and research
Dates	1991-1998
Occupation or position held	Teaching Assistant at the Department of Mechanics and Computer Programming, Technical University of Cluj-Napoca
Main activities and responsibilities	Teaching activities in robotics, computer programming, research activities in Robotics and mechatronics
Name and address of employer	Technical University of Cluj-Napoca, Daicoviciu, 15, RO-400020 Cluj-Napoca, Romania, www.utcluj.ro

Type of business or sector
Education and training Education and research

Dates 1991-1998

Title of qualification awarded PhD

Principal subjects/occupational skills covered Research in Robotics and Mechanical Engineering
PhD thesis title: Researches regarding the graphical simulation of the behavior of industrial robots based on the cinematic and dynamic study of spatial structures

Name and type of organisation providing education and training Technical University of Cluj-Napoca, Daicovicui, 15, RO-400020 Cluj-Napoca, Romania, www.utcluj.ro

Personal skills and competences

Mother tongue(s) Romanian

Other language(s) English
German

Self-assessment
European level ()*

English

German

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C1	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user
C1	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user

(*) Common European Framework of Reference for Languages

Social skills and competences Team spirit, communicative, solidarity, honesty, correctitude, responsibility, dynamism

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

Technical skills and competences Ability in kinematic and dynamic modelling of robots, programming of robots and mechanical systems, CAD of robots, advanced robot control.
Writing many scientific papers in ISI and BDI journals
Participation at many international well known conferences and congresses
Coordination of international conferences and workshops

Computer skills and competences C++, Matlab, Fortran, MSC Adams, MathCAD, Solid Edge, NX, AutoCAD, Corel DRAW, MS Office, Latex, control programming languages etc.
Easily adapts to new technologies/software

Artistic skills and competences Tennis, skiing, swimming

Other skills and competences June – July 1999 Visiting researcher at “Institut für Werkzeugmaschinen und Fertigungstechnik”, Technische Universität “Carolo Wilhelmina” zu Braunschweig, Germany (postdoc stage)

March – June 1996 Visiting researcher at “Institut für Werkzeugmaschinen und Fertigungstechnik”, Technische Universität “Carolo Wilhelmina” zu Braunschweig, Germany

Oct. 1993 –Sept. 1994 Visiting researcher at “Institut für Werkzeugmaschinen und Fertigungstechnik”, Technische Universität “Carolo Wilhelmina” zu Braunschweig, Germany

August 1994 Training seminar “Zielorientierte Projektplanung” (Task oriented Planing design) Lingen, Germany

1993 Specialisation in UNIX, Cluj-Napoca

1992 Specialisation in Computer Networks, Cluj-Napoca

Graduate Faculty of Machine Building, Technical University of Cluj-Napoca (ranked first out of 200 graduates)

Driving licence Driving licence category B since 1991

Additional information**Annexes****Membership**

Scientific activity (entire career)
 H Index: 10 (Web of Science), 13 (Scopus), 15 (Google Scholar)
 She fulfills the minimal CNATCDU criteria for Mechanical Engineering - 3104% (3538 points with respect with the minimum 114 points (each criteria and subcriteria are fulfilled).

CNATCDU Member 2016-2020 - Mechanical Engineering and Mechatronics and Robotics commission
 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 (IFTToMM) since 1998
 Member of the Technical Committee „Computational Kinematics” of the international organization IFTOMM since 2007
 Member of the Technical Committee „Biomechanical Engineering” of the international organization IFTOMM since 2007
 Coordinator of the Technical Committee „Computational Kinematics” of the international organization IFTOMM, 2009 - 2016
 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, 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>
 Co-Chair of the 12th IFTToMM International Symposium on Science of Mechanisms and Machines - SYROM'2017
 Chair of the “European Conference on Mechanism Science-EUCOMES 2020, Cluj-Napoca, 2020

Special Prizes and honors

Multiple gold medals and awards during national and international invention fairs for the patents in the field of medical robotics

Invited / Keynote Lecturer

Many invited and keynotes lectures within international conferences and congresses
 Excerpt (5 most relevant ones)
 1. **Pisla, D.**, Innovative Approaches in Surgical Robotics - Past, Present and Future , The 2nd IFTToMM Asian Conference on Mechanism and Machine Science, Tokyo, Japan, 2012, [Page 4/7 - Curriculum vitae of
 Pisla Doina](http://www.jc-</p>
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Publications

iftomm.org/Asian-MMS2012/

2. **Pisla, D.**, Research Challenges in Robotic Assisted Brachytherapy, MESROB 2014, Lausanne, Switzerland, 2014, <http://mesrob.epfl.ch/page-104220-en.html>
3. **Pisla, 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. **Pisla, D.**, Innovative Approaches in Medical Robotics, ICOME 2015, Craiova, 2015
5. **Pisla, D.**, Innovative Approaches in Medical Robotics, 7th IFTOMM International Workshop on Computational Kinematics, CK 2017, Futuroscope-Poitiers, France

Books (author or co-author): 12

1. Carbone, G., Ceccarelli, M., **Pisla, D.** (Eds.), *New Trends in Medical and Service Robotics. Advances in Theory and Practice*, Springer, 2019.
2. Doroftei, I., Oprisan, C., **Pisla, D.**, Lovasz, E.-C. (Eds.), *New Advances in Mechanism and Machine Science, Proceedings of The 12th IFTOMM International Symposium on Science of Mechanisms and Machines (SYROM 2017)*, Springer, 2019
3. 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.
4. 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.
5. Rodić, A., **Pisla, D.**, Bleuler, H. (Eds.), *New Trends in Medical and Service Robots, Challenges and Solutions*, Springer, 2014, 384 pp.
6. **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.
7. **Pisla D.**, Ceccarelli, M., Husty, M., Corves, B., (Eds.), *New Trends in Mechanism Science, Analysis and Design*, Springer, 2010, 708 pages.
8. Vaida C., Gherman, B., **Pisla, D.**, *MATLAB programming for engineers*, Vol. 3, under the Series "Computer programming", Coordinator Doina Pisla, Mediamira, 2014, 380 pp.
9. Gherman B., Vaida C., **Pisla D.**, *Programming in C with applications in engineering* Vol 2, under the Series "Computer programming", Coordinator Doina Pîsla, Mediamira, 2013, 308 pp.
10. Vaida C., **Pisla, D.**, *Basic Computer skills. Applications*. Vol. 1, under the Series "Computer programming", Coordinator Doina Pîsla, Mediamira, 2009, 250 pp.
11. **Pisla, D.**, Kinematic and dynamic modeling of parallel robots, Dacia, 2005, 207 pp.
12. **Pisla, D.**, Graphical Simulation of Industrial Robots, Todesco, 2001

Scientific publications (over 170 indexed papers published in journals, conferences and congresses)
ISI journal papers with impact factor (Excerpt 15 relevant ones)

1. Vaida, C., Birlescu, I., Pisla, A., Ulinici I., Tarinita, D., Carbone, G., **Pisla, D.** (corresponding author): Systematic Design of a Parallel Robotic System for Lower Limb Rehabilitation, IEEE ACCESS, vol. 8, 34522(15), 2020 (Impact factor: 4.098)
2. Tucan P., Gherman B., Major K., Vaida C., Major Z., Plitea N., Carbone G., **Pisla D.** (corresponding author): Fuzzy Logic-Based Risk Assessment of a Parallel Robot for Elbow and Wrist Rehabilitation, Int. J. Environ. Res. Public Health, 17(2), 654, 2020 (Impact Factor: 2.468)
3. **Pisla D.**, Vaida, C., Birlescu I., Nadim, A.H., Gherman, B., Corina Radu, Plitea N.: Risk Management for the Reliability of Robotic Assisted Treatment of Non-resectable Liver Tumors, Appl. Sci., 10(1), 52, 2020, (Impact Factor: 2.217)
4. Birlescu I., Manfred, H., Vaida C., Plitea N., Nayak A., **Pisla, D.** (corresponding author): Complete Geometric Analysis Using the Study SE(3) Parameters for a Novel, Minimally Invasive Robot Used in Liver Cancer Treatment, Symmetry, 11(12), 1491, 2019 (Impact factor: 2.143)
5. Tucan P., Vaida C., Plitea N., Pisla A., Carbone G., **Pisla D.** (corresponding author): Risk-Based Assessment Engineering of a Parallel Robot Used in Post-Stroke Upper Limb Rehabilitation, Sustainability 11(10), 2893, 2019, (Impact factor: 2.075)
6. Gherman, B., Birlescu, I., Plitea, N., Carbone, G., Tarnita, D., **Pisla, D.** (corresponding author): On the singularity-free workspace of a parallel robot for lower-limb rehabilitation, Proceedings Of The Romanian Academy, Series A, Of The Romanian Academy, 20(4), pp. 383–391. 2019 (Impact factor: 1.402)
7. Tucan, P.; Vaida, C.; Plitea, N.; Pisla, A.; Carbone, G.; **Pisla, D.** (corresponding author): Risk-Based Assessment Engineering of a Parallel Robot Used in Post-Stroke Upper Limb Rehabilitation. Sustainability 2019, 11, 2893. (ISI Journal, Impact Factor: 2.075)
8. **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)

9. **D. Pislă**, 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)
10. Plitea N., Szilaghyi A., Cocorean D., Covaciu F., Vaida C., Pislă D. (corresponding author):: Inverse dynamics and simulation of a 5-dof modular parallel robot used in brachytherapy, *Proceedings of the Romanian Academy, Series A*, Vol. 17(1), pp. 67-75, 2016, (ISI Journal, Impact Factor: 1.658)
11. Plitea N., Szilaghyi A., Cocorean D., Covaciu F., Vaida C., Pislă D. (corresponding author):: Inverse dynamics and simulation of a 5-dof modular parallel robot used in brachytherapy, *Proceedings of the Romanian Academy, Series A*, Vol. 17(1), pp. 67-75, 2016
12. Plitea N., Szilaghyi A., **Pislă D.** (corresponding author):: "Kinematic Analysis of a new 5-DOF Modular Parallel Robot for Brachytherapy", *Robotics and Computer Integrated Manufacturing*, vol. 31, pp: 70-80, 2015 (ISI Journal, Impact Factor: 2.305)
13. **Pislă, D.**, Gherman, B., Vaida, C., Suci, M., Plitea, N.: "An active hybrid parallel robot for minimally invasive surgery", *RCIM*, 2013, 29 (4), 203-221, DOI: 10.1016/j.rcim.2012.12.004
13. Vaida, C., Plitea, N., **Pislă, D.**, Gherman, B., Orientation module for surgical instruments - a systematic approach, *Meccanica*, 48(1), 2013, pp. 145-158, DOI: 10.1007/s11012-012-9590-x
14. **Pislă, D.**, Gherman, B., Vaida, C., Plitea, N.: „Kinematic modeling of a 5 DOF Parallel Hybrid Robot designed for Laparoscopic Surgery”, *Robotica*, 2012, 30 (07), 1095-1107, DOI: 10.1017/S0263574711001299
15. Gherman, B., **Pislă, D.**, Vaida, C., Plitea N., "Development of Inverse Dynamic Model for a Surgical Hybrid Parallel Robot with Equivalent Lumped Masses", *RCIM*, 2012, 28 (3), 402-415, DOI: 10.1016/j.rcim.2011.11.003

Papers published at international and national conferences (excerpt 5 relevant ones)

1. Birlăscu, I., **Pislă, D.**, Gherman, B., Vaida, C., Carbone, G., Plitea, N., On the Singularities of a Parallel Robotic System Used for Elbow and Wrist Rehabilitation, *Advances in Robot Kinematics*, Springer, 2018, pp. 203-211
2. C. Vaida, P. Tucan, N. Plitea, V. Lazar, N. Al Hajjar, **D. Pislă**: *Kinematic analysis of a new parallel robotic system for minimally invasive therapy of non-resectable hepatic tumor*, IFToMM WC 2019 : The 15th IFToMM World Congress, 30 June - 4 July 2019, Krakow, Polonia
3. **D. Pislă**, D. Ani, C. Vaida, B. Gherman, P. Tucan, N. Plitea: "BIO-PROS-2: a parallel robotic structure for transperineal prostate biopsy", *International Conference on Automation, Quality and Testing, Robotics AQTR*, May 19-21 2016.
4. **D. Pislă**, B. Gherman, P. Tucan, C. Vaida, C. Govor, N. Plitea: "On the Kinematics of an Innovative Parallel Robotic System for Transperineal Prostate Biopsy", *IFToMM Congress*, Taipei, Taiwan, 25-30 October 2015
5. **D. Pislă**, B. Gherman, G. Kacso, N. Plitea: "Kinematic Behaviour of a Novel Medical Parallel Robot for Needle Placement", *Advances in Intelligent Systems and Computing*, Springer, Vol. 371, pp. 329-338, 2015
6. **D. Pislă**, D. Cocorean, C. Vaida, B. Gherman, A. Pislă, N. Plitea: "Application Oriented Design and Simulation of an Innovative Parallel Robot for Brachytherapy", *Proceedings of the ASME 2014 International Design Engineering Technical Conferences and Computers and Information in Engineering Conference - IDETC/CIE 2014*, 17 - 20 August 2014, Buffalo, New York, USA

Relevant projects (over 50 national and international projects)

International Research projects (excerpt – 5 most relevant ones)

1. An innovative robotic system for upper limb rehabilitation – InnoHealth, RIS 2019 Innovation Call, https://cester.utcluj.ro/innohealth/en/home_en.html, 21540/07.08.2019, EIT-Health, Position: Director, 2019.
2. Manipulation Systems for Sample Handling in a Sample Receiving Facility, TASUK/16/11305/NBO/1424, ESA European Space Agency, Position: Coordinator, Duration: 2015-2018
3. Creative Alliance in Research and Education focused on Medical and Service Robotics, IZ74Z0_13736, Scopes International IP Grant., http://www.snf.ch/SiteCollectionDocuments/int_sco_pro_romania0912.pdf Position: Coordinator, Romania, Duration : 2011-2014
4. Mathematische Modellierung und experimentelle Untersuchungen eines modular aufgebauten Parallelroboters in der minimal invasiven Chirurgie – *Mathematical modeling and experimental researches for the development of a modular parallel robot for minimally invasive surgery*. Duration: 2006-2011, Financed by: Alexander von Humboldt Foundation, Position: Member
5. *The setup of a laboratory for microrobots and micro grippers using advanced materials within the Center for Industrial Robots Simulation and Testing*. Duration: 2004-2005, Financed by: DAAD, Position: Director

National Research Grants (excerpt – 5 most relevant ones)

1. 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
2. Research Grant within Competitiveness Operational Programme 2014-2020 - 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
3. Robotic assisted prostate biopsy, a high precision innovative method – ROBOCORE, no. 247/2014, code PN-II-PT-PCCA-2013-4-0647 financed by UEFISCDI, 2014-2017, Position: Project coordinator
4. Diagnosis and therapy system for spin disorders– SPINE, no. 227-2014, code PN-II-PT-PCCA-2013-4-1596 financed by UEFISCDI, 2014-2017, Position: Partner scientific responsible
5. Robotic assisted brachytherapy an innovative approach of inoperable cancers – CHANCE, Project no. 173/2012, code PN-II-PTPCCA-2011-3.2-0414, financed by UEFISCDI, 2012-2015, Position: Scientific coordinator

Patents (excerpt 10 most relevant ones from different research areas)

1. Vaida, C., Plitea, N., **Pisla, D.**, Carbone, G., Gherman, B., Ulinici, I., Pisla, A., Spherical robot for medical rehabilitation of proximal area of upper limb, RO-132233 (2020)
2. Gherman, B., **Pisla, D.**, Plitea, N., Vaida, C., Carbone, G., Pisla A., Parallel robotic system for medical rehabilitation of upper limb, RO-132234 (2020)
3. Vaida, C., Plitea, N., **Pisla, D.**, Gherman, B., Suci, M.: Orientation module with multiple curvatures, Patent RO-129923 B1 (2019)
4. Plitea, N., **Pisla, D.**, Vaida, C., Gherman, B.: Surgical Robot. RO-126271, Romania (2012).
5. Birlescu, I., Gherman, B., Burz, A., **Pisla, D.**, Automated medical instrument with multiple parallel needles for the intersitital brachytherapy. patent pending A00710/06.11.2019
6. Vaida, C., Plitea, N., Pisla, D., Carbone, G., Gherman, B., Ulinici, I., Robot sferico per il recupero riabilitativo della spalla MSE (Ministero dello Sviluppo Economico, Italia) 102018000006216/12.06.2018
7. Carbone, G., **Pisla, D.**, Vaida, C., Nadas, I., Inovative cable system for the rehabilitation of the upper limb, Patent pending A/00558/31.07.2018
8. Cafolla, D., Chaparro-Rico B., Russo, M., Carbone, G., **Pisla, D.**, Vaida, C., Nadas, I., Portable cable based rehabilitation device, Patent pending A/00559/31.07.2018
9. Plitea, N., **Pisla, D.**, Vaida, C., Gherman, B., Tucan, P. PRoHep-LCT- Parallel robot for the minimally invasive treatment of hepatic carcinoma, Patent pending A1017/03.12.2018
10. Vaida, C., **Pisla, D.**, Plitea, N., Gherman, B., Tucan, P. Parallel modular robotic system for the ultrasound intraoperative probe guidance and the manipulation of instruments for the treatment of hepatic tumors, Patent pending A01143/24.12.2018.

Professional Associations

1994	Member of Gesellschaft für Angewandte Mathematik und Mechanik (GAAM)-Germany
1996	Member of of AGIR (General Society of Romanian Engineers)
1998	Member of IFTOMM
2002	Member of Romanian Society of Robotics
2007	Member of IFTOMM Technical Committee „Computational Kinematics”
2009-present	Chair of IFTOMM Technical Committee „Computational Kinematics”
2012-present	Member of Technical Committee „Biomechanical Engineering”

I hereby certify that the above statements are true.

Date 20.04.2020 Prof. Dr. Ing. Doina PISLA