



## Europass Curriculum Vitae



### Personal information

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

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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:reconfigurable robots; microrobots; robots for medical applications; service robots.
Name and address of employer	Management 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, 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-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, Daicovicu, 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.  
 Writing many scientific papers in ISI and BDI journals  
 Participation at many international conferences in 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

Scientific activity (entire career)  
H Index: 9 (Web of Science), 12 (Scopus), 15 (Google Scholar)

## Annexes

## Membership

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 the international organization 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>

## Special Prizes and honors

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.  
Special prize of OSIM (Romanian Office for Inventions and Trademarks) for the patent Surgical Robot, no. RO-126271, Iasi, 2014  
[http://www.osim.ro/despre\\_noi/comunicate\\_relpress.php](http://www.osim.ro/despre_noi/comunicate_relpress.php)  
Special prize of the Romanian Ministry of National Education awarded to the Technical University of Cluj-Napoca for the patent Parallel robot for brachytherapy with two kinematic guiding chains of the platform (the needle) type CYL-U, authors, Plitea N., Pisla D., Vaida C., Gherman B., Szilaghyi A., Galdau B., Cocorean D., within the Inventika Inventions and Innovations Saloon, October 2014

## Invited / Keynote Lecturer

1. Pisla, 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. 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](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): 10.

## Publications

1. 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.
2. 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.
3. Rodić, A., **Pisla, D.**, Bleuler, H. (Eds.), *New Trends in Medical and Service Robots, Challenges and Solutions*, Springer, 2014, 384 pp.
4. **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.
5. **Pisla D.**, Ceccarelli, M., Husty, M., Corves, B., (Eds.), *New Trends in Mechanism Science, Analysis and Design*, Springer, 2010, 708 pages.
6. Vaida C., Gherman B., **Pisla, D.**, *MATLAB programming for engineers*, Vol. 3, under the Series "Computer programming", Coordinator Doina Pisla, Mediamira, 2014, 380 pp.
7. Gherman B., Vaida C., **Pisla D.**, *Programming in C with applications in engineering* Vol 2, under the Series "Computer programming", Coordinator Doina Pisla, Mediamira, 2013, 308 pp.
8. Vaida C., **Pisla, D.**, *Basic Computer skills. Applications*. Vol. 1, under the Series "Computer programming", Coordinator Doina Pisla, Mediamira, 2009, 250 pp.
9. **Pisla, D.**, Kinematic and dynamic modeling of parallel robots, Dacia, 2005, 207 pp.
10. **Pisla, D.**, Graphical Simulation of Industrial Robots, Rodesco, 2001

Scientific publications (over 150 indexed papers)

Excerpt (15 relevant publications in ISI journals)

1. Vaida, C., Birllescu, I., Pisla, A., Ulinici I., Tarinita, D., Carbone, G., Pisla, D.: 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.**: 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., Birllescu 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. Birllescu I., Manfred, H., 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, 11(12), 1491, 2019 (Impact factor: 2.143)
5. 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 11(10), 2893, 2019, (Impact factor: 2.075)
6. Gherman, B., Birllescu, 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, 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.** 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.: 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.: 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.: "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 papers)

1. 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
2. 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
3. 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
4. Szilaghyi, **D. Pislă**, C. Vaida, B. Gyurka and N. Plitea: "Kinematics Simulation and Validation of a Medical Robot" - Proceedings of the Second Conference MeTrApp 2013, published in New Advances in Mechanisms, Transmissions and Applications, Mechanisms and Machine Science, Vol. 17, pp. 139-147, ISBN 978-94-007-7484-1, 2014.
5. **D. Pislă**, D. Cocorean, C. Vaida, B. Gyurka, A. Pislă, N. Plitea, Kinematic and dynamic simulation of a reconfigurable parallel robot, Proceedings of the 3rd IFToMM International Symposium on Robotics and Mechatronics (ISRM 2013) ISBN: 978-981-07-5983-4, Singapore, 2013.

#### Relevant projects

##### International Research projects (excerpt)

1. An innovative robotic system for upper limb rehabilitation – InnoHealth, RIS 2019 Innovation Call, [https://cester.utcluj.ro/innohealth/en/home\\_en.html](https://cester.utcluj.ro/innohealth/en/home_en.html), 21540/07.08.2019, EIT-Health, Position: Director, Duration: 2019 (5 months)
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](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. National 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**

1. Plitea, N., Pislă, D., Vaida, C., Gherman, B.: Surgical Robot. RO-126271, Romania (2012).
2. Vaida, C., Plitea, N., Pislă, D., Gherman, B., Suci, M.: Orientation module with multiple curvatures, Patent RO 129923 B1 (2019)
3. Vaida, C., Plitea, N., Pislă, 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
4. Carbone, G., Pislă, D., Vaida, C., Nadas, I., Inovative cable system for the rehabilitation of the upper limb, A/00558/31.07.2018
5. Cafolla, D., Chaparro-Rico B., Russo, M., Carbone, G., Pislă, D., Vaida, C., Nadas, I., Portable cable based rehabilitation device, A/00559/31.07.2018
6. Vaida, C., Plitea, N., Pislă, D., Carbone, G., Gherman, B., Ulinici, I., Spherical robot for the rehabilitation of the proximal area of the upper limb, Patent pending, A00374/14.06.2017
7. Gherman, B., Pislă, D., Plitea, N., Vaida C., Carbone, G., Pislă, A., Banica, A., Family of robots for the rehabilitation of the upper limb, Patent pending A00375/14.06.2017

### **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

4..03.2020

Prof. Dr. Ing. Doina PISLA

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