

LISTA LUCRĂRILOR ȘTIINȚIFICE

A. Lucrări în reviste cotate sau indexate ISI

A1. Lista celor 10 lucrări ISI cu factor de influență considerate ca fiind reprezentative

1. **Pisla, D.**, Galdau, B., Covaciu, F., Vaida, C., Popescu D., Plitea N., Safety Issues in the Development of the Experimental Model for an Innovative Medical Parallel Robot used in Brachytherapy, International Journal of Production Research, (2016), DOI: 10.1080/00207543.2016.1200153, , ISSN: 0020-7543 published online: 23 June 2016 (Impact Factor : 1.577 Scor relativ de influență: 1,339)
2. Plitea N., Szilaghyi A., **Pisla 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, Scor relativ de influență: 1.671)
3. **Pîslă, D.**, Gherman, B., Vaida, C., Suciu, M., Plitea, N.: "An active hybrid parallel robot for minimally invasive surgery", Robotics and Computer-Integrated Manufacturing, 2013, 29 (4), 203-221, DOI: 10.1016/j.rcim.2012.12.004 (ISI Journal, Impact Factor: 2.305, Scor relativ de influență: 1.671)
4. **Pisla, D.**; Szilaghyi, A.; Vaida, C.; Plitea, N.: Kinematics and workspace modeling of a new hybrid robot used in minimally invasive surgery, Robotics and Computer-Integrated Manufacturing, 2013, 29 (2),463-474, DOI: 10.1016/j.rcim.2012.09.016 (ISI Journal, Impact Factor: 2.305, Scor relativ de influență: 1.671)
5. Plitea, N. , Lese, D., **Pisla, D. (autor corespondent)**, Vaida, C.: Structural design and kinematics of a new parallel reconfigurable robot, Robotics and Computer-Integrated Manufacturing, 2013, 29 (1), 219-235, DOI: 10.1016/j.rcim.2012.06.001 (ISI Journal, Impact Factor: 2.305, Scor relativ de influență: 1.671)
6. Vaida, C., Plitea, N., **Pisla, D (autor corespondent)**., Gherman, B., Orientation module for surgical instruments - a systematical approach, Meccanica, 48(1), January 2013, pp. 145-158, DOI: 10.1007/s11012-012-9590-x (ISI Journal, Impact Factor: 1.949, Scor relativ de influență: 0.891)
7. **Pîslă, D.**, Gherman, B., Vaida, C., Plitea, N.: „Kinematic modeling of a 5 DOF Parallel Hybrid Robot designed for Laparoscopic Surgery”, Robotica, Cambridge University Press, 2012, 30 (07), 1095-1107, DOI: 10.1017/S0263574711001299 (ISI Journal, Impact Factor: 0.894, Sor relativ de influență 0.750)
8. Gherman, B., **Pîslă, D.** (corresponding author), Vaida, C., Plitea N., “Development of Inverse Dynamic Model for a Surgical Hybrid Parallel Robot with Equivalent Lumped Masses”, Robotics and Computer-Integrated Manufacturing, 2012, 28 (3), 402-415, DOI: 10.1016/j.rcim.2011.11.003 (ISI Journal, Impact Factor: 2.305, , Scor relativ de influență: 1.671)
9. Plitea N., Szilaghyi A., Cocorean D., Covaciu F., Vaida C., **Pisla 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, Scor relative de influență: 0.429)

10. N. Plitea, **D. Pislă**, C. Vaida, B. Gherman, A. Szilaghyi, B. Galdau, D. Cocorean, F. Covaciu: "On the Kinematics of a New Parallel Robot for Brachytherapy", Proceedings of the Romanian Academy - series A: Mathematics, Physics, Technical Sciences, Information Science, Vol. 15, No. 4, pp. 354-361, 2014 (ISI Journal, Impact Factor: 1.658, Scor relativ de influență: 0.429)

A.2. Lista completă a lucrărilor ISI publicate la conferințe și în reviste de profil

1. Tiberiu Popescu, Alex Cristian Kacso, Doina **Pislă**, Gabriel Kacso, Brachytherapy next generation: robotic systems, J Contemp Brachytherapy 2015; 7, 6: 510-514 DOI: 10.5114/jcb.2015.56769
2. **D Pislă**, D Ani, C Vaida, B Gherman, P Tucan, N Plitea, BIO-PROS-2: An innovative parallel robotic structure for transperineal prostate biopsy, Automation, Quality and Testing, Robotics (AQTR), 2016 IEEE International Conference on
3. C Vaida, **D Pislă**, F Covaciu, B Gherman, A Pislă, N Plitea, Development of a control system for a HEXA parallel robot, Automation, Quality and Testing, Robotics (AQTR), 2016 IEEE International Conference on
4. Vaida, C., Plitea, N., Cocorean, D., **Pislă, D.**, Modeling of new spatial parallel structures with constant platform orientation using planar parallel modules, Proc. Of the Romanian Academy, Series A, 15(1), 2014, pp. 43-51
5. **Doina Pislă**, Dragos Cocorean, Calin Vaida, Bogdan Gherman, Adrian Pislă, Nicolae Plitea, Application Oriented Design and Simulation of an Innovative Parallel Robot for Brachytherapy, 2014/8/17, ASME 2014 International Design Engineering Technical Conferences and Computers and Information in Engineering Conference, Pages V05BT08A012
6. B Galdau, N Plitea, C Vaida, F Covaciu, **D Pislă**, Design and control system of a parallel robot for brachytherapy, 2014/5/22, Automation, Quality and Testing, Robotics, 2014 IEEE International Conference, Pages 1-6
7. B Gyurka, I Kovacs, **D Pislă**, Presentation of the mixt control unit for PARMIS parallel robotic system, 2014/5/22, Automation, Quality and Testing, Robotics, 2014 IEEE International Conference, Pages 1-6
8. **D Pislă**, M Ceccarelli, M Husty, B Corves, Brain Injuries, 2010/12, Arch Phys Med Rehabil, Vol. 91
9. Gyurka, B., **Pislă, D.**, Stancel, E., Vaida, C., et al, Integrated control techniques for PARASURG 9M parallel robot, (2012), Automation Quality and Testing Robotics (AQTR), 2012 IEEE International Conference on, pp. 461-466
10. **D. Pislă**, B. Gherman, N. Plitea, B. Gyurka, C. Vaida (c.a.), L. Vlad, F. Graur, C. Radu, M. Suci, A. Szilaghy, A. Stoica, PARASURG hybrid parallel robot for minimally invasive surgery, (2011), Chirurgia Vol. 106(5), pp. 619-625
11. **Pislă, D.**, Plitea, N., Vaida, C. (c.a.), Hesselbach, J., Raatz, A., Vlad, L., Graur, F., PARAMIS Parallel Robot for Laparoscopic Surgery, (2010), Chirurgia 105(5), pp. 677-683
12. **Doina Liana Pislă**, Nicolae Plitea, Adrian Pislă, Ioan Stoian, Eugen Stancel, Bela Zoltan Gyurka, Alina Tepes, A simulation control interface for robotic structures used as flight

- simulators, 2008/5/22, Automation, Quality and Testing, Robotics, 2008. AQTR 2008. IEEE International Conference, Volume 2, Pages 404-408
13. L Furcea, F Graur, L Scurtu, N Plitea, **D Pislă**, C Vaida, O Deteaean, A Szilaghy, H Neagoa, A Mureaean, L Vlad, Advantages of the implementation of an e-learning platform for laparoscopic hepatic surgery, 2011, Chirurgia, Volume 106, Pages 799-806
 14. Scurtu, L., Plitea, N., Crisan, N., **Pislă, D.**, Kinematics and workspace of a new surgical robot with five degrees of freedom, 2012/5/24, Automation Quality and Testing Robotics (AQTR), 2012 IEEE International Conference, Pages 406-411
 15. B. Gyurka, **D. Pislă**, E. Stancel, C. Vaida, B. Gherman, D. Lese, M. Suci, N. Plitea, The Control of the PARAMIS Parallel Robot using a Haptic Device, Automation Quality and Testing Robotics (AQTR), 2010 IEEE International Conference on, DOI: 10.1109/AQTR.2010.5520857
 16. B. Gherman, C. Vaida, **D. Pislă**, N. Plitea, B. Gyurka, D. Lese, M. Glogoveanu, Singularities and workspace analysis for a parallel robot for minimally invasive surgery, Automation Quality and Testing Robotics (AQTR), 2010 IEEE International Conference on, DOI: 10.1109/AQTR.2010.5520866
 17. A Stoica, G Carbone, M Ceccarelli, **D Pislă**, Cassino Hexapod: Experiences and new leg design, 2010/5/28, Automation Quality and Testing Robotics (AQTR), 2010 IEEE International Conference, Volume 3, Pages 1-6
 18. N. Plitea, J. Hesselbach, **D. Pislă**, A. Raatz, B. Gherman, C. Vaida, Dynamic analysis and design of a surgical parallel robot used in laparoscopy, Journal of Vibroengineering, 11 (2009), pp. 215–225
 19. **Doina Pislă**, Nicolae Plitea, Anneline Vidrean, Bogdan Prodan, Bogdan Gherman, Dorin Lese, Kinematics and design of two variants of a reconfigurable parallel robot, Reconfigurable Mechanisms and Robots, 2009. ReMAR 2009. ASME/IFTOMM International Conference on, Pages 624-631, Publisher IEEE
 20. Tiberiu Itul, **Doina Pislă**, On the Kinematics and Dynamics of 3-DOF Parallel Robots with Triangle Platform, 2009/3/1, Journal of Vibroengineering
 21. T Itul, **D Pislă**, Dynamics of a 3-DOF parallel mechanism used for orientation applications 2008/5/22, Automation, Quality and Testing, Robotics, 2008. AQTR 2008. IEEE International Conference, Volume 2, Pages 398-403
 22. Nicolae Plitea, Adrian Pislă, **Doina Pislă**, Bogdan Prodan, Dynamic Modeling of a 6-DOF Parallel Structure Destinated to Helicopter Flight Simulation, 2008, Conference, ICINCO-RA (2), Pages 219-224
 23. N Plitea, A Vidrean, **D Pislă**, A Pislă, C Vaida, New development of parallel robots and microrobots with three, four and five degrees of freedom, 2007/12/1, PAMM, Vol 7 Issue 1, Pages 4010029-4010030, WILEY-VCH Verlag
 24. N Plitea, **D Pislă**, C Vaida, On kinematics of a parallel robot used for the minimally invasive surgery, 2007/12/1, PAMM, Vol7 Issue 1, Pages 4010033-4010034, WILEY-VCH Verlag
 25. C Vaida, **D Pislă**, N Plitea, Graphical simulation of a new concept of low sized surgical parallel robot for camera guidance in minimally invasive surgery, PAMM, Vol 7 Issue 1, Pages 2090005-2090006, WILEY-VCH Verlag

26. L Vaida, L Nascutiu, C Vaida, **D Pislă**, T Itul, A Pislă, On-pump modular system for automated adjustment and control for axial piston pumps, 2007/12/1, PAMM, Vol 7, Issue 1, Pages 4140001-4140002, WILEY-VCH Verlag
27. Tiberiu-Pavel Itul, **Doina Liana Pislă**, The Influence of Friction on the Dynamic Model for a 6-DOF Parallel Robot with Triangular Platform, 2007/10/1, Journal of Vibroengineering, Volume 9, Issue 4
28. TP Itul, **DL Pislă**, Workspace analysis of a three degrees of freedom parallel Robot, 2006/5/25, Automation, Quality and Testing, Robotics, 2006 IEEE International Conference on, Volume 2, Pages 290-295
29. A Pislă, DA Vidrean, **DL Pislă**, Interactive Modelling of the Robotized Systems, 2006/5/25, Automation, Quality and Testing, Robotics, 2006 IEEE International Conference, Volume 2, Pages 249-253
30. **Doina Pislă**, New Algorithm for the Identification and Analysis of the Parallel Robots Singularities, 2005/12/1, Journal PAMM, Volume 5, Issue 1, Pages 213-214, WILEY-VCH Verlag
31. **Pislă Doina**, Itul T., Pislă, A., Kinematic and Analysis of a Parallel Micro-manipulator, GAMM 2006, Berlin, MA041, pp. 515, ZAMM 2006
32. Pislă A., **Pislă Doina**, Achievement of Control Strategies for Micro-Robots, GAMM 2006, MA041, pp. 516-517 ZAMM.2006
33. Pislă, A., **Pislă, Doina**, Studies regarding the alternate simulation techniques for machine tools and industrial robots, PAMM-ZAMM 4, 165-166, 2004/DOI 10.1002/pamm.200410064, Wiley-VCH Verlag.
34. **Pislă, Doina**, Pislă, A., The Relationships between the Shape of the Workspace and Geometrical Dimensions of Parallel Manipulators, PAMM-ZAMM 4, 167-168, 2004/DOI 10.1002/pamm.200410065, Wiley-VCH Verlag
35. **D Pislă**, A Pislă, Effiziente dynamische Rechnersimulation für Parallelroboter, 2001, ZEITSCHRIFT FÜR ANGEWANDTE MATHEMATIK UND MECHANIK, Volume 81, Pages S277-278

A.3. Vizibilitate internațională pe baza index-ului Hirsch al principalelor baze de date

- ✓ **Scopus**: 216 Citations, h-index: 8
- ✓ **Web of Science**: 143 Citations, h-index: 7
- ✓ **Google Scholar**: 585 Citations (476 after 2011), h-index: 12

Observații.

1. Factorul de impact al revistei este cel mai nou factor de impact publicat pe site-ul revistei.
2. Factorul relativ de influență este cel din Lista valorilor scorului relativ de influență 2016 (conform JCR 2015) (http://uefiscdi.gov.ro/userfiles/file/CENAPOSS/RIS_2016.pdf).

B. Brevete de invenție și alte titluri de proprietate industrială

1. Plitea, N., Pîslă, D., Vaida, C., Gherman, B.: Robot Chirurgical RO 126271, Romania (2012).
2. Plitea, N., Pîslă, D., Vaida, C., Vidrean, M. Lese, D., Scurtu, L., Familie de roboți pentru poziționarea cu orientare constantă a platformei mobile. Cerere de brevet nr. A/10021/29.09.2010, Romania (2010).
3. Plitea, N., Pîslă, D., Vaida, C., Vidrean, A., Glogoveanu, M. Lese, D., Familie de roboți paraleli cu patru grade de mobilitate, Cerere de brevet nr. A10022/30.09.2010, Romania (2010).
4. Plitea, N., Pîslă, D., Vaida, C., Lese, D., Konya, B., Dadarlat, R., Scurtu, L., Sabou, C., Familie de roboți paraleli cu șase grade de mobilitate, Cerere de brevet nr. A/10013/2011, Romania (2011).
5. Vaida C., Plitea, N., Pîslă, D., Gherman, B., Suciuc, M.: Modul de orientare cu structură modulară și mai multe curburi, Cerere de brevet nr. A10113/2011, Romania (2011)
6. Plitea, N., Pîslă, D., Vaida, C., Gherman, B., Szilághyi, A., Galdău, B., Cocorean D., „Robot paralel pentru brahiterapie cu două lanțuri cinematice de ghidare a platformei (acului) de tip 2CRRU și CRU”, Cerere de brevet A/10004/2013, 2013
7. Plitea, N., Pîslă, D., Vaida, C., Gherman, B., Szilághyi, A., Galdău, B., Cocorean D., „Robot paralel pentru brahiterapie cu două lanțuri cinematice de ghidare a platformei (acului) de tip 2CRRU și CYL-U”, Cerere de brevet A/10005/2013, 2013 8.
8. Plitea, N., Pîslă, D., Vaida, C., Gherman, B., Szilághyi, A., Galdău, B., Cocorean D., „Robot paralel pentru brahiterapie cu două lanțuri cinematice de ghidare a platformei (acului) de tip CYL-U”, Cerere de brevet A/10006/2013, 2013
9. Plitea, N., Pîslă, D., Vaida, C., Gherman, B., Szilághyi, A., Galdău, B., Cocorean D., „Robot paralel pentru brahiterapie cu două module paralele, unul pentru poziționare și unul pentru orientare”, Cerere de brevet A/10007/2013, 2013
10. N. Plitea, D. Pîslă, C. Vaida, B. Gherman, P. Tucan, C. Govor, F. Covaciu: Familie de roboți paraleli pentru biopsia transperineală a prostatei, In curs de brevetare: A/00191/13.03.2015;
11. C. Vaida, D. Pîslă, P. Tucan, N. Plitea, B. Gherman: Robot paralel pentru biopsia transperineală a prostatei. In curs de brevetare: 00761/26.10.2015

C. Cărți și capitole în cărți

C1. Cărți publicate în edituri naționale recunoscute CNCSIS/UEFISCDI

1. Vaida, C., Gherman, B., **Pîslă, D.**, Programarea calculatoarelor, Vol. III, Programare in MATLAB pentru ingineri, serie coordonată de by Prof. **D. Pîslă**, Ed. Mediamira, Cluj-Napoca, 2014, ISBN- 978-973-713-312-0
2. Gherman, B., Vaida, C., **Pîslă, D.**, Programarea calculatoarelor, Vol. II, Programare in C cu aplicații în inginerie, serie coordonată de by Prof. **D. Pîslă**, Ed. Mediamira, Cluj-Napoca, 2013, ISBN- 978-973-713-305-2
3. Vaida, C., **Pîslă, D.**, Programarea calculatoarelor, Vol. I Utilizarea calculatoarelor. Aplicații, serie coordonată de by Prof. **D. Pîslă**, Ed. Mediamira, Cluj-Napoca, 2008, ISBN – 978-973-713-247-5
4. **Pîslă, D.**, Modelarea cinematica si dinamica a robotilor paraleli, Dacia, România, Cluj-Napoca, 2005, ISBN 973-35-1941-3

5. **Pisla, D.**, Utilizarea calculatoarelor compatibile IBM-PC, Casa Cartii de Stiinta, România, Cluj-Napoca, 2003, ISBN 973-686-476-6
6. **Pisla, D.**, Simularea grafica a robotilor industriali, Editura Todesco, România, Cluj-Napoca, 2001, ISBN 973-8198-16-X

C2. Cărți publicate ca și editor în edituri naționale și internaționale

1. Bleuler, H., Bouri, M., Mondada, F., **Pisla, D.**, Rodic, A., Helmer, P., New Trends in Medical and Service Robots Assistive, Surgical and Educational Robotics, Vol. 38, 2016 ISBN: 978-3-319-23831-9 (Print) 978-3-319-23832-6 (Online)
2. **Pisla, D.**, Bleuler, H., Rodic, A., Vaida, C., Pisla, A. New Trends in Medical and Service Robots, Theory and Integrated Applications, Mechanisms and Machine Science Volume 16 2014, ISBN: 978-3-319-01591-0 (Print) 978-3-319-01592-7 (Online)
3. Rodic, A., **Pisla, D.**, Bleuler, H., New Trends in Medical and Service Robots, Challenges and Solutions, Mechanisms and Machine Science, Volume 20 2014, ISBN: 978-3-319-05430-8 (Print) 978-3-319-05431-5 (Online)
4. **Pisla, D.**, Husty, M., Romanian Journal of Technical Sciences Applied Mechanics, Special Issue "New Trends in Advanced Robotics", Vol. 58, 1-2, jan-aug. 2013
5. **Pisla, D.**, Ceccarelli, M., Husty, M., Corves, B. (Eds) , New Trends in Mechanism Science. Analysis and Design, 2010, Springer, ISBN: 978-90-481-9688-3 (Print) 978-90-481-9689-0 (Online)

C3. Capitole în cărți publicate în edituri internaționale

1. Vaida, C., Tucan, P., **Pisla, D.**, Parametric Modeling for Analyzing Diseases of the Human Spine, Applied Mechanics and Materials, Vol. 823, pp. 131-136, 2016
2. B. Gherman, N. Plitea, **D. Pisla**, An Innovative Parallel Robotic System for Transperineal Prostate Biopsy, New Trends in Mechanism and Machine Science, Vol. 43, pp. 421-429, 2016
3. **D. Pisla**, B. Gherman, F. Girbacia, C. Vaida, S. Butnariu, T. Girbacia, N. Plitea: "Optimal Planning of Needle Insertion for Robotic-Assisted Prostate Biopsy", Advances in Intelligent Systems and Computing, Springer, Vol. 371, pp. 339-346, 2015
4. T. Itul, B. Gherman, D. Cocorean, **D. Pisla**, "Inverse Dynamics of 2-DOF Parallel Mechanism Used for Orientation", New Trends in Mechanism and Machine Science, Vol. From Fundamentals to Industrial Applications, pp. 455-462, DOI: 10.1007/978-3-319-09411-3_48, 2015
5. **D. Pisla**, 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. F. Gîrbacia, S. Butnariu, D. Voinea, B. Tolea, T. Gîrbacia, **D. Pîslă** (2015): "A Virtual Reality System for Pre-Planning of Robotic-Assisted Prostate Biopsy", In Applied Mechanics and Materials, vol. 772, pp. 585-590. 2015
7. C. Vaida, **D. Pisla**, J. Schadlbauer, M. Husty, N. Plitea, „Kinematic Analysis of an Innovative Medical Parallel Robot using Study parameters”, New Trends in Medical and Service Robots Vol. 39 of the series Mechanisms and Machine Science, Springer, pp. 85-99, 2016
8. **D. Pisla**, P. Tucan, B. Gherman, N. Crisan, N. Plitea: "Graphical Simulation System for Functional Analysis of a Parallel Robot for Transperineal Prostate Biopsy", International Conference of Mechanical Engineering, ICOME 2015, 9-0 October 2015, in Current

- Solutions in Mechanical Engineering, ISBN: 978-3-03835-566-3, Applied Mechanics and Materials Vols. 823, Transh Tech Publications, 2016
9. F. Covaciu, D. Ani, B. Gherman, N. Plitea, **D. Pislă**, "Design and Control System of a Modular Parallel Robot for Medical Applications", *Robotica & Management*, ISSN: 1453-2069, Vol. 20., Nr.1, pp. 22-27, 2015
 10. F. Covaciu, B. Gherman, C. Vaida, N. Plitea, **D. Pislă**, F. Puskas, "Control of a Medical Parallel Robot for Brachytherapy", *Acta Electrotehnica*, ISSN 1224-2497, Nr. 3, pp. 152-156, 2015
 11. D. Cocorean, C. Vaida, N. Plitea, **D. Pislă**, Modular design of a parallel robotic structure for brachytherapy, *ACTA TECHNICA NAPOCENSIS Series: Applied Mathematics, Mechanics, and Engineering* Vol. 58, Issue II, pp. 245-250, June, 2015
 12. C. Vaida, **D. Pislă**, A. Szilaghyi, F. Covaciu, D. Cocorean, N. Plitea: "The Control System of a Parallel Robot for Brachytherapy", *New Trends in Mechanism and Machine Science*, Vol. From Fundamentals to Industrial Applications, pp. 563-571, 2015, DOI: 10.1007/978-3-319-09411-3_60
 13. T. Itul, B. Gherman, D. Cocorean, **D. Pislă**: "Inverse Dynamics of 2-DOF Parallel Mechanism Used for Orientation", *New Trends in Mechanism and Machine Science*, Vol. From Fundamentals to Industrial Applications, pp. 455-462, 2015, DOI: 10.1007/978-3-319-09411-3_48
 14. F. Girbacia, S. Butnariu, D. Talaba, **D. Pislă**: "Multi-objective optimization for brachytherapy robotic interventions", 6th Gyor Symposium and 3rd Hungarian Polish and 1st Hungarian Romanian Joint Conference on Computational Intelligence, pp.29-34, Gyor 2014
 15. B. Gherman, N. Plitea, **D. Pislă**, C. Vaida: "Kinematic Modelling of a new 5-DOF (Axis) Parallel Robot used in Brachytherapy", *The VIth International Conference on Robotics - ROBOTICS 2014 (ISI Proceedings)*
 16. F. Girbacia, B. Gherman, S. Butnariu, N. Plitea, D. Talaba, **D. Pislă**: "Virtual Planning Of Needle Trajectories Using A Haptic Interface For A Brachytherapy Parallel Robot: an evaluation study", lucrare acceptata la publicare la *The VIth International Conference on Robotics*, Bucharest, *ROBOTICS 2014 (ISI Proceedings)*
 17. N. Plitea, G. Kacso, **D. Pislă**, C. Vaida, B. Gherman, A. Szilaghyi, D. Cocorean: "Robotic Brachytherapy", *Journal of Contemporary Brachytherapy*, vol. 6, supplement 1, pp. 56-57, 2014
 18. B. Galdau, N. Plitea, C. Vaida, F. Covaciu, **D. Pislă**, Design and control system of a parallel robot for brachytherapy, 2014 IEEE International Conference on Automation, Quality and Testing, Robotics - AQTR 2014, 22-24 Mai 2014, Cluj-Napoca, Romania, ISBN 978-1-4799-3732-5
 19. **D. Pislă**, N. Plitea, B. Galdau, C. Vaida, B. Gherman: Innovative Approaches Regarding Robots for Brachytherapy, *New Trends in Medical and Service Robots, Mechanisms and Machine Science*, Vol. 20, pp. 63-78, ISBN: 978-3-319-05430-8, 2014
 20. B. Gherman, N. Plitea, B. Galdau, C. Vaida, **D. Pislă**, On the Kinematics of an Innovative Parallel Robot for Brachytherapy, *The 14th International Symposium on Advances in Robot Kinematics - ARK 2014*, 29 Iunie - 3 Iulie 2014, Ljubljana, Slovenia, Publicat in: *Advances in Robot Kinematics*, pp. 475-483, DOI 10.1007/978-3-319-06698-1_49, Print ISBN 978-3-319-06697-4, Online ISBN 978-3-319-06698-1, 2014
 21. N. Plitea, C. Vaida, B. Gherman, A. Szilaghyi, B. Galdau, D. Cocorean, F. Covaciu, **D. Pislă**, An innovative family of modular parallel robots for brachytherapy, *The 11th IFToMM International Symposium on Science of Mechanisms and Machines - SYROM'2013*, 11-12 November 2013, Brasov, Romania, published in *Mechanisms and*

- Machine Science, Vol. 18, pp. 69-79, ISBN:978-3-319-01844-7, DOI:10.1007/978-3-319-01845-4_7, 2014.
22. N. Plitea, C. Vaida, B. Gherman, A. Szilaghyi, B. Galdau, D. Cocorean, F. Covaciu, **D. Pislă**: "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, Vol. 16, ISBN 978-3-319-01591-0, DOI 10.1007/978-3-319-01592-7, 2014
 23. A. 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.
 24. Vaida, C., Gherman, B., **Pislă, D.**, Plitea, N., A Spherical Robotic Arm for Instruments Positioning in Minimally Invasive Medical Applications, (2012), Asian Initiatives in Mechanism and Machine Science, Proceedings of the 2nd IFToMM Asian Conference on Mechanism and Machine Science, November 7 -10, 2012, Tokyo, Japan. Kindle Edition, ASIN: B00HDOD3VO, pp. 158-165, 2013
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D. Produse noi realizate la nivel național ca rezultat al implementării proiectelor de cercetare derulate în cadrul centrului de cercetare CESTER

1. **Primul sistem robotic din România destinat chirurgiei minim invazive**, sub forma unei structuri paralele care permite poziționarea camerei laparoscopice folosind comenzi vocale. Valoarea acestei realizări este certificată, pe lângă publicațiile de specialitate din conferințe și reviste, de acceptul diseminării ca prezentare orală (și publicată ca rezumat într-un supliment al revistei Surgical Endoscopy - [Link](#)) în cadrul congresului internațional al EAES (Asociația Europeană de Chirurgie Endoscopică) în Cehia în anul 2009, și inclusă ca și soluție consacrată într-un „review” publicat în anul 2010, intitulat „Classification, Design and Evaluation of Endoscope Robots”, care prezintă cele 27 de structuri robotice realizate la nivel mondial pentru chirurgia endoscopică ([link](#)).
2. **Primul sistem robotic cu arhitectură paralelă din România pentru conducerea instrumentelor active în chirurgia minim invazivă**, PARASURG-9M, acesta integrând brațul robotic PARASURG-5M și instrumentul activ PARASIM
3. **Primul sistem robotic cu arhitectură paralelă din România pentru tratamentul minim invaziv al cancerului prin brahiterapie**, robotul PARA-BRACHYROB
4. **Primul sistem robotic cu arhitectură paralelă din România pentru biopsia transperineală a prostatei**, robotul RIO-PROS1

Cluj-Napoca, 7.10. 2016

Prof. univ. Dr. Ing. Doina Pislă