

Autorul tezei de abilitare: Prof.dr.ing. Andrea Cătălina Deaconescu

Titlul tezei de abilitare: Cercetări privitoare la proiectarea optimală robustă și acționarea cu ajutorul mușchilor pneumatici a sistemelor

Domeniul: Inginerie industrială

LISTA DE LUCRĂRI

(2006 – 2015)

LUCRĂRI RELEVANTE

1. Petre I., **Deaconescu Andrea**, Rogozea L., Deaconescu T. - Orthopaedic Rehabilitation Device Actuated with Pneumatic Muscles. *International Journal of Advanced Robotic Systems*, Volume 11, 2014 (105), Print ISSN 1729-8806, Online ISSN 1729-8814, DOI: 10.5772/58693, *ISI Impact Factor: 0.497; SRI = 0,301*.
2. Deaconescu T., **Deaconescu Andrea** - Film Thickness in Coaxial Sealing Systems of Hydraulic Cylinder Rods. *Journal of the Balkan Tribological Association*, Vol. 20, No 3, 447–462 (2014), ISSN 1310-4772, *ISI Impact Factor: 0.321, SRI = 0,066*.
3. **Deaconescu Andrea**, Deaconescu T. - Pneumatic Muscle Actuated Rotation-Translation System. Optirob 2014, Mangalia, România, 26-29 Iunie 2014, *Applied Mechanics and Materials* Vol. 555, pp. 129-134, Trans Tech Publications, Switzerland.
4. Negrea, D., Deaconescu T., **Deaconescu Andrea** - Symmetrical Pneumatic Muscle Actuated Gripper System with Two Mobile Jaws. 2014 International Conference on Mechatronics, Manufacturing and Automation (ICMMA), Singapore, 19-20 February, *Applied Mechanics and Materials* Vols. 541-542 (2014) pp 852-856, Trans Tech Publications, Switzerland, doi:10.4028/www.scientific.net/AMM.541-542.852, ISSN 1660-9336. (*indexată ISI*).
5. Negrea, D., **Deaconescu Andrea**, Deaconescu T. - Actuation by Pneumatic Muscles of a Parallel Asymmetric Gripper System. 2014 International Conference on Manufacturing and Industrial Technologies (ICMIT 2014), Shanghai, China, 27-28 March 2014, *Applied Mechanics and Materials* Vols. 548-549, pp 943-947, Trans Tech Publications, Switzerland, doi:10.4028/www.scientific.net/AMM.548-549.943, ISSN 1660-9336.
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7. Deaconescu, T., **Deaconescu Andrea**, Petre, I. - Assistive Rehabilitation Device for the Joints of the Lower Limb. ASME 2011 International Design Engineering Technical Conferences and Computers and Information in Engineering Conference, ASME/IEEE International Conference on Mechatronic and Embedded Systems and Applications (MESA2011), Washington DC, USA, 28-31 August 2011. (*indexată ISI*).
8. **Deaconescu Andrea**, Deaconescu T. - Intelligent Automation and Systems Engineering, Series: Lecture Notes in Electrical Engineering, Vol. 103; Capitolul 3: Bio-Inspired Pneumatic Muscle Actuated Robotic System. Editura Springer 2011, 430 p., pag. 27-40, ISBN 978-1-4614-0372-2.
9. **Deaconescu Andrea**, Deaconescu, T. - Robust Design – A Decision Making Tool in Machining by Lapping. The 2nd International Conference on Computer and Automation Engineering Singapore, ICCAE 2010, vol. 5, pag. 198 – 202, IEEE Catalog Number: CFP1096F-PRT, ISBN 978-1- 4244-5585-0, Library of Congress: 2009938876.
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1872-1875, Editura Newswood Limited Hong Kong, ISBN:978-988-17012-7-5. (*indexată ISI*).

TEZA DE DOCTORAT

Deaconescu Andrea - „Optimizări privind prelucrarea suprafețelor prin lepuire”

- Susținută în decembrie 2005 la Universitatea Transilvania din Brașov.
- Conducător științific: Prof.dr.ing. Nicolae Valentin Ivan

BREVETE

2 cereri de brevet de invenție:

- Nr. A/00133/15.02.2010 – “Echipament destinat antrenării și reabilitării articulațiilor portante ale membrului inferior prin mișcare continuă pasivă”.
- Nr. A00246/6.04.2015 - “Sistem de prehensiune paralel cu două bacuri, asimetric, acționat cu mușchi pneumatici”

CĂRȚI / CAPITOLE DE CĂRȚI

1. **Deaconescu Andrea** - Comunicare în afaceri. Editura Universității TRANSILVANIA din Brașov, 2013, ISBN 978-606-19-0211-8.
2. **Deaconescu Andrea** + colectiv de autori. - Intelligent Automation and Systems Engineering, Series: Lecture Notes in Electrical Engineering, Vol. 103; Capitolul 3: Bio-Inspired Pneumatic Muscle Actuated Robotic System. Editura Springer 2011, 430 p., Editori: Sio-Iong Ao, Harvard University, Cambridge, MA, USA, Burghard Rieger, Trier University, Mahyar Amouzegar, College of Engineering, California State University Pomona USA, pag. 27-40, ISBN 978-1-4614-0372-2.
3. **Deaconescu Andrea** + colectiv de autori - IAENG Transactions on Engineering Technologies Volume 3; Capitol de carte: Pneumatic Muscle Actuated Equipment for Continuous Passive Motion. American Institute of Physics, Melville, New York 2009, Vol. 1174, Editor: Sio-Iong Ao, Harvard University, Cambridge, MA, USA, 332 p., Hardcover, ISBN: 978-0-7354-0713-8.
4. **Deaconescu Andrea** - Proiectarea sistemelor robuste. Editura Universității TRANSILVANIA din Brașov, 2008, ISBN 978-973-598-413-7.
5. **Deaconescu Andrea** - Ingineria calității. Proiectarea robustă a sistemelor de producție. Editura Universității TRANSILVANIA din Brașov, 2006, ISBN 973-635-711-2; ISBN 978-973-635-711-4.
6. **Deaconescu Andrea** + colectiv de autori. Tratat de tehnologii neconvenționale. Vol. VIII. Prelucrare prin eroziune cu unde ultrasonice. Editat de: Academia Română; Academia de Științe Tehnice din România; Asociația Română pentru Tehnologii Neconvenționale (ARTN). Coordonare generală a tratatului: Prof.dr.doc.șt.ing.,dr.HC Aurel Nanu. Coordonare volum : Prof.dr.ing. Nicolae Ion Marinescu. Editura BREN București, 2004, ISBN 973-648-385-1.
7. **Deaconescu Andrea** - Ingineria calității. Îndrumar de laborator. Universitatea TRANSILVANIA din Brașov, 2003.
8. **Deaconescu Andrea**, Deaconescu T. - Managementul calității. Aplicații. Editura OMNIA UNI S.A.S.T. Brașov, 2001, ISBN 973-9478-65-4.
9. Nedelcu A., Deaconescu T., Drăgoi M.V., **Deaconescu Andrea** – Birotică. Editura OMNIA UNI S.A.S.T. Brașov, 2001, ISBN 973-9478-43-3.
10. Drăgan, I., **Deaconescu Andrea**, Brad T., Robu, I. - Management pentru viitor. Editura Presa Universitară Clujeană, Cluj-Napoca, 2000, ISBN 973-595-010-3.

ARTICOLE ÎN REVISTE

1. **Deaconescu, Andrea** - Robust Design Based Optimisation of Surface Lapping Processes. *Revista de Management și Inginerie Economică - Review of Management and Economic Engineering (RMEE)*, Volume 14, No. 1 (55), pag. 29-38, ISSN 1583-624X.
2. Petre, I., Deaconescu T., **Deaconescu, Andrea** - Concerning on a Lower Limb Joint Affections Rehabilitation Equipment Command. *Applied Mechanics and Materials* Vol. 772, pp. 580-584, Trans Tech Publications, Switzerland, doi:10.4028/www.scientific.net/AMM.772.580. ISSN 1660-9336.
3. Deaconescu T. **Deaconescu Andrea**, Petre I. - Continuous passive motion-based rehabilitation equipment for the recovery of lower limb bearing joints. *International Journal of Biomechatronics and Biomedical Robotics*, Vol. 3, No. 1, 2014, pag. 12-19, ISSN online: 1757-6806; ISSN print: 1757-6792.
4. Negrea D., **Deaconescu Andrea**, Deaconescu T. - Principles and Stages of New Gripper Systems Development. International Conference on Economic Engineering and Manufacturing Systems, ICEEMS 2013, Braşov, *Revista RECENT* Vol. 14(2013), Nr. 4(40), pag. 301 - 306, ISSN 1582-0246.
5. **Deaconescu Andrea**, Deaconescu T. - Optimisation by Robust Parameter Design of the Tooling Allowance in Lapping Processes. *Buletinul Institutului Politehnic din Iași*, publicat de Universitatea Tehnică «Gh. Asachi» din Iași, Tomul LIX(LXIII), Fasc. 3, Secția Construcții de mașini, pag. 75-82, Editura POLITEHNIUM, 2013, ISSN 1011-2855.
6. Deaconescu, T., **Deaconescu Andrea** - Optimisation of Abrasive Jet Cutting by Means of Taguchi Methods. *Nonconventional Technologies Review*, vol. XVII, no. 4/2013, Romanian Association of Nonconventional Technologies Romania, "Politehnica" Publishing House, pag. 26-30, ISSN 1454-3087. ICNcT 16th Edition, Sibiu, June 2013.
7. Deaconescu, T., **Deaconescu Andrea** - Key Aspects in Addressing Friction in Coaxial Hydraulic Sealing Systems. 4th International Conference on Manufacturing Science and Engineering (ICMSE) 2013, Dalian, China; *Advanced Materials Research* Vols. 690-693 (2013) pp. 1988-1991, Trans Tech Publications, Switzerland, doi:10.4028/www.scientific.net/AMR.690-693.1988. ISSN: 1022-6680. (*indexată ISI*).
8. Deaconescu, T., **Deaconescu Andrea** - Functional Characteristics of Pneumatic Muscle Actuated Rehabilitation Equipment for the Joints of the Inferior Limb. 2012 International Conference on Advances in Materials Science and Engineering, 27-28 September 2012, Bangkok, Thailand, *Advanced Science Letters* Vol. 19, No. 1, 85-89 (2013), ISSN: 1936-6612 (Print): EISSN: 1936-7317 (Online).
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10. Petre, I., Deaconescu T., **Deaconescu Andrea**, Petre, D. - Some Considerations Regarding Pneumatic Muscle Volume. *Buletinul Institutului Politehnic din Iași*, publicat de Universitatea Tehnică «Gh. Asachi» din Iași, Tomul LVIII(LXII), Fasc. 1, Secția Construcții de mașini, pag. 139-144, Editura POLITEHNIUM, 2012, ISSN 1011-2855.
11. Petre, I., Deaconescu T., **Deaconescu Andrea**, Petre, D. - Finite Element Modeling of a Knee and Hip Rehabilitation Equipment. *Buletinul Institutului Politehnic din Iași*, publicat de Universitatea Tehnică «Gh. Asachi» din Iași, Tomul LVIII(LXII), Fasc. 1, Secția Construcții de mașini, pag. 133-138, Editura POLITEHNIUM, 2012, ISSN 1011-2855.
12. **Deaconescu Andrea**, Deaconescu T., Petre, I. - Operational Performance of a Pneumatic Muscle Actuated Rehabilitation Device. *Buletinul Institutului Politehnic din Iași*, publicat de Universitatea Tehnică «Gh. Asachi» din Iași, Tomul LVII(LXI), Fasc. 4, Secția Construcții de mașini, pag. 92-99, Editura POLITEHNIUM, 2011, ISSN 1011-2855.

13. **Deaconescu Andrea** Deaconescu T. - Signal-to-Noise Ratio Based Robustness Analysis of a Pneumatic Muscle Actuated Rehabilitation Device. *Buletinul Institutului Politehnic din Iași*, publicat de Universitatea Tehnică «Gh. Asachi» din Iași, Tomul LVII(LXI), Fasc. 4, Secția Construcții de mașini, pag. 83-91, Editura POLITEHNIUM, 2011, ISSN 1011-2855.
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1. Negrea, D., **Deaconescu Andrea**, Deaconescu T. - Constructive and Functional Modelling of a Pneumatic Muscle Actuated Symmetric Gripper System with Two Mobile Jaws. IManE, Chișinău, Moldova, 29-30.05.2014, *Applied Mechanics and Materials* Vol. 657, pp. 574-578, Trans Tech Publications, Switzerland, doi: 10.4028/www.scientific.net/AMM. 657.574, ISSN 1660-9336. (*indexată ISI*).
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7. Deaconescu, T., **Deaconescu Andrea** - Rehabilitation of the Ankle Joint by Means of Equipment Actuated by Pneumatic Muscles. Proceedings of the Ninth IASTED International Conference on Biomedical Engineering, Innsbruck, Austria, 15-17 februarie 2012, pag. 297-302, ISBN: 978-0-88986-909-7.
8. Petre, I., Deaconescu T., **Deaconescu Andrea**, Petre, D. - Kinematic Analysis of an Isokinetic Equipment Conceived for Rehabilitation. Proceedings of the 15th International Conference “Modern Technologies, Quality and Innovation ModTech 2011”, Vadul lui Vodă, Chișinău, Moldova, Vol. II, pag. 857 – 860, MODTECH Publishing House, ISSN 2069-6736.
9. **Deaconescu Andrea**, Deaconescu Teodor - Computer-Aided Study on Certain Causes of Hydraulic Sealing System Deterioration. Proceedings of the 15th International Conference “Modern Technologies, Quality and Innovation ModTech 2011”, Vadul lui Vodă, Chișinău, Moldova, Vol. I, pag. 297 – 300, MODTECH Publishing House, ISSN 2069-6736.

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13. Deaconescu, T., **Deaconescu Andrea** - Pneumatic Muscle Actuated Gripper. International MultiConference of Engineers and Computer Scientists Hong Kong 2011, International Association of Engineers (IAENG), Proceedings vol. II, pag. 1305-1308, Editura Newswood Limited Hong Kong, ISBN:978-988-19251-2-1.
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18. **Deaconescu Andrea**, Deaconescu, T. - Pneumatic Muscle Actuated Translation Module for Rehabilitation Robots. Annals of DAAAM for 2009 & Proceedings of the 20th International DAAAM Symposium Viena, Austria, pag. 0709-0710, ISSN 1726-9679, ISBN 978-3-901509-70-4. (*indexată ISI*).
19. Deaconescu T., **Deaconescu Andrea** - Pneumatic Actuation of Equipment Developed for the Rehabilitation of the Lower Limb by Continuous Passive Motion. Annals of DAAAM for 2009 & Proceedings of the 20th International DAAAM Symposium Viena, Austria, pag. 0519-0520, ISSN 1726-9679, ISBN 978-3-901509-70-4. (*indexată ISI*).
20. Deaconescu, T., **Deaconescu Andrea**, Limbăşan, G., Ichim, I., Găvruş, C. - Pneumatic Muscle Actuated Equipment for the Passive Exercising of Inferior Limb Bearing Joints. International Conference on Economic Engineering and Manufacturing Systems, ICEEMS 2009, Braşov, Revista RECENT Vol. 10(2009), Nr. 3(27), pag. 237 - 240, ISSN 1582-0246.
21. **Deaconescu Andrea**, Deaconescu, T. - Performance of Machining by Waterjet Erosion. Proceedings of the 1st International Conference on Manufacturing Engineering, Quality and Production Systems (MEQAPS '09) Braşov 2009, Vol. II, pag. 313-316, Published by WSEAS Press, ISBN 978-960-474-122-9, ISSN 1790-2769. (*indexată ISI*).

22. **Deaconescu Andrea**, Deaconescu T. - Performance of a Pneumatic Muscle Actuated Rotation Module. World Congress on Engineering Londra 2009, International Association of Engineers (IAENG), Vol. II, pag. 1516-1520, Editura Newswood Limited Hong Kong, ISBN:978-988-18210-1-0. (*indexată ISI*).
23. Deaconescu, T., **Deaconescu Andrea** - Pneumatic Muscle Actuated Isokinetic Equipment for the Rehabilitation of Patients with Disabilities of the Bearing Joints. International MultiConference of Engineers and Computer Scientists Hong Kong 2009, International Association of Engineers (IAENG), Proceeding vol. II, pag. 1823-1827, Editura Newswood Limited Hong Kong, ISBN:978-988-17012-7-5. (*indexată ISI*).
24. **Deaconescu Andrea**, Deaconescu, T. - Pneumatic Muscle Actuated Rotation Module for Rehabilitation Robots. Annals of DAAAM for 2008 & Proceedings of the 19th International DAAAM Symposium Trnava, Slovakia, pag. 0365-0366, ISSN 1726-9679. (*indexată ISI*).
25. **Deaconescu Andrea**, Deaconescu, T. - Pneumatic Muscle Actuated Gripper System. Annals of DAAAM for 2008 & Proceedings of the 19th International DAAAM Symposium Trnava, Slovakia, pag. 0363-0364, ISSN 1726-9679. (*indexată ISI*).
26. Deaconescu T., **Deaconescu Andrea** - Equipment for Magneto-Abrasive Finishing of Roller Bearing Balls. 6th International Conference of DAAAM Baltic Industrial Engineering, Tallinn, Estonia 2008, Vol. 1 pag. 227-232, ISBN 978-9985-59-783-5. (*indexată ISI*).
27. **Deaconescu Andrea**, Deaconescu, T. - Robust Design of Lapping Processes. 6th International Conference of DAAAM Baltic Industrial Engineering, Tallinn, Estonia 2008, Vol. 1 pag. 221-226, ISBN 978-9985-59-783-5. (*indexată ISI*).
28. **Deaconescu Andrea**, Deaconescu, T. - Contribution to the Behavioural Study of Pneumatically Actuated Artificial Muscles. 6th International Conference of DAAAM Baltic Industrial Engineering, Tallinn, Estonia 2008, Vol. 1 pag. 215-220, ISBN 978-9985-59-783-5. (*indexată ISI*).
29. Deaconescu T., **Deaconescu Andrea** - Study of Non-Anthropomorphic Pneumatic Muscle Actuated Gripper. 6th International Fluid Power Conference Dresden, Germania, 2008, Vol. 2, pag. 267-277.
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ALTE LUCRĂRI / REALIZĂRI RELEVANTE

1. Deaconescu, T., **Deaconescu, Andrea** - Biomimetic Actuation of Non-Anthropomorphic Gripper Systems. Conference Proceedings of the Academy of Romanian Scientists, PRODUCTICA Scientific Session, Volume 7, Number 1/2015, pag. 265 – 272, ISSN 2067-2160.
2. **Deaconescu, Andrea**, Deaconescu T. - A Novel Dedicated Software Application for Robust Optimisation of Lapping Processes. Conference Proceedings of the Academy of Romanian Scientists, PRODUCTICA Scientific Session, Volume 6, Number 1/2014, pag. 189 – 196, ISSN 2067-2160.
3. Deaconescu, T., **Deaconescu, Andrea** - Applications of Pneumatic Muscles Developed at the Festo Regional Research and Training Centre of Brașov. Congresul al V-lea al Academiei Oamenilor de Știință din România, București, mai 2013, Conference Proceedings of the Academy of Romanian Scientists, PRODUCTICA Scientific Session, Volume 5, Number 1/2013, pag. 9 – 16, ISSN 2067-2160.
4. Keynote Speaker la ICMIT 2015 - International Conference on Manufacturing and Industrial Technologies Pattaya, Thailanda, cu lucrarea:

Deaconescu Andrea - Study Concerning the Increase of Productivity in Machining by Lapping.

Membru în colectivele de redacție ale revistelor:

- Revista RECENT Industrial Engineering Journal, Editată de Universitatea Transilvania din Brașov, p-ISSN 1582-0246; e-ISSN 2065-4529
- BULLETIN OF THE TRANSILVANIA UNIVERSITY OF BRASOV, SERIES I - Engineering Sciences, ISSN 2065-2119 (Print), ISSN 2065-2127 (CD-ROM)

Data: 31.08.2015

Prof.dr.ing. Andrea Cătălina Deaconescu

