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Title Research concerning optimal robust design and pneumatic muscle based actuation of systems

Domain: Industrial engineering

PUBLICATIONS LIST

(2006 – 2015)

RELEVANT PAPERS

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*).
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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*).
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PhD THESIS

Deaconescu, Andrea - „Optimization of surface machining by lapping”

- Defended in December 2005 at Transilvania University of Braşov.
- Tutor: Professor Nicolae Valentin Ivan, PhD

PATENTS

2 cereri de brevet de invenție:

- No. A/00133/15.02.2010 – “Lower limb continuous passive motion based mobilisation and rehabilitation equipment”.
- No. A00246/6.04.2015 - “Pneumatic muscle actuated asymmetrical two-jaw parallel gripper system”

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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*).
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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*).
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4. Keynote Speaker la ICMIT 2015 - International Conference on Manufacturing and Industrial Technologies Pattaya, Thailand; keynote presentation::

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

Member of the editorial boards of professional journals:

- RECENT Industrial Engineering Journal, published by Transilvania University of Braşov, 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)

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