

PERSONAL INFORMATION **Andrea DEACONESCU**

✉ deacon@unitbv.ro

POSITION
IOSUD UTBV
Transilvania University of Braşov
PhD coordinator – Field: Industrial Engineering
Since: 2016

EXPERTISE FIELD AND RESEARCH INTEREST AREAS
Medical rehabilitation compliant equipment; Surface finishing machining procedures; Robust optimisation

WORK EXPERIENCE

- 2009 – present **Tenured university professor**
Transilvania University of Braşov, Bd. Eroilor nr. 29, 500036 Braşov, www.unitbv.ro
▪ Teaching and research activity
- 2007 – 2009 **Associate university professor**
Transilvania University of Braşov, Bd. Eroilor nr. 29, 500036 Braşov, www.unitbv.ro
▪ Teaching and research activity
- 2002 – 2007 **University lecturer**
Transilvania University of Braşov, Bd. Eroilor nr. 29, 500036 Braşov, www.unitbv.ro
▪ Teaching and research activity
- 1991 – 2002 **Head of Library Services**
Transilvania University of Braşov, Bd. Eroilor nr. 29, 500036 Braşov, www.unitbv.ro
- 1988 – 1991 **Engineer – design of industrial machinery**
Întreprinderea de Autocamioane Braşov (Motor truck company of Braşov)
- 1985 - 1988 **Engineer – design of industrial machinery**
Întreprinderea de Maşini Agregat şi Subansambluri Auto Sf. Gheorghe (Aggregate machines and automotive subassemblies company of Sf. Gheorghe)

EDUCATION AND TRAINING

- 2001 – 2005 **PhD research in Engineering**
2005 **Award of PhD degree**
Transilvania University of Braşov, Bd. Eroilor nr. 29, 500036 Braşov
▪ Robust optimisation of surface machining by lapping
- 1998 - 2000 **Master of Arts in Information Science**
University of Central England in Birmingham, UK
- 1980 – 1985 **Study of Mechanical Engineering – specialisation Machine Tools**
1985 **Award of Engineering Degree**
Transilvania University of Braşov, Bd. Eroilor nr. 29, 500036 Braşov

PERSONAL SKILLS

Mother tongue(s) Hungarian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Conversation	Oral discourse	
English	C2	C2	C2	C2	C2
German	C2	C2	C2	C2	C2

Communication skills ▪ good communication skills

Organisational / managerial skills

- coordinator of the „Production organisation and management” University College (2003-2008)
- member of the Board of Transilvania University Publishing House (2009- present)
- 2012 – 2018 coordinator of the Marketing and Image Department of Transilvania University of Braşov

Digital skills

- Proficient in the utilisation of the entire Microsoft Office™ package, Visual Basic.NET

ADDITIONAL INFORMATION

Projects

Development of pneumatic muscle actuated rotation and translation modules for rehabilitation robots. CNCSIS Contract of type IDEI, PN-II-ID-PCE-2007-1, ID_184. Position: contract director. Robust Design of Lapping Processes. CNCSIS contract of type: Human Resources, PN-II-RU-MC-2008-2, CNCSIS code: 44. Position: contract director.

Patents

Equipment for the mobilisation and rehabilitation of the inferior limb bearing joints by means of continuous passive motion (Invention patent no. 126094/2017).

Memberships

Member of InfoDocRom (The Romanian Society of Information and Documentation)
Member of the Romanian Association of Non-Conventional Technologies
Member of the International Association of Engineers Hong Kong (IAENG)
Senior Member of the International Association of Computer Science and Information Technology Singapore (IACSIT)
Senior Member of the Science and Engineering Institute (SCIEI)
Senior Member of the International Economics Development Research Center (IEDRC)

Teaching abroad

Invited professor at the Institute of Automation, University of Bremen, Germany in 2001, 2002, 2005, 2006, 2007
Invited professor at Odense University College of Engineering, Denmark in 2003
Invited professor la ENSAM Cluny, France in 2008, 2009, 2010

Keynote Speaker

International Conference on Manufacturing and Industrial Technologies (ICMIT 2015), Pattaya, Thailand
International Conference on Manufacturing and Industrial Technologies (ICMIT 2016), Istanbul, Turkey
International Conference on Mechatronics and Automation Science (ICMAS 2016), Istanbul, Turkey
The 5th International Conference on Manufacturing Engineering and Process (ICMEP 2016), Istanbul, Turkey.
“ICMIT 2017 - International Conference on Manufacturing and Industrial Technologies”, Lisbon, Portugal.
The 6th International Conference on Manufacturing Engineering and Process (ICMEP 2017), Lisbon, Portugal.
The 9th International Conference on Information Management and Engineering (ICIME 2017), Barcelona, Spain
The 10th International Conference on Information Management and Engineering (ICIME 2018), Manchester, UK

H indexes

ISI: 3, Scopus: 3, Google: 7

ANNEXES

LIST OF RELEVANT PUBLICATIONS /RESEARCH (selection)

1. Ingineria calității. Proiectarea robustă a sistemelor de producție (Quality Engineering. Robust Design of Manufacturing Systems). Editura Universității TRANSILVANIA din Brașov (Transilvania University Publishing House), 2006, ISBN 973-635-711-2; ISBN 978-973-635-711-4
2. Proiectarea sistemelor robuste (Design of Robust Systems). Editura Universității TRANSILVANIA din Brașov (Transilvania University Publishing House), 2008, ISBN 978-973-598-413-7
3. Intelligent Automation and Systems Engineering, Series: Lecture Notes in Electrical Engineering, Vol. 103; Capitolul 3: Bio-Inspired Pneumatic Muscle Actuated Robotic System, published by Springer 2011, 430 p., Editori: Sio-long 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
4. Deaconescu, T., Deaconescu A., Developing an Analytical Model and Computing Tool for Optimizing Lapping Operations of Flat Objects Made of Alloyed Steels. *Materials* 2020, 13 (6), 1343; Published by MDPI AG, <https://doi.org/10.3390/ma13061343>, ISSN 1996-1944, ISI Impact Factor: 2.972; SRI: 1,567 (Q2).
5. Deaconescu, A., Deaconescu T. Tribological Behavior of Hydraulic Cylinder Coaxial Sealing Systems Made from PTFE and PTFE Compounds. *Polymers* 2020, 12, 155. ISI Impact Factor: 3,164; SRI: 1,451 (Q1).
6. Sârbu, F., Deaconescu, A., Deaconescu T. Adjustable compliance soft gripper system. *International Journal of Advanced Robotic Systems*, July-August 2019, pag 1-10, <https://doi.org/10.1177/1729881419866580>, ISSN 1729-8814, ISI Impact Factor: 1,223; SRI: 0,450
7. Deaconescu, T., Deaconescu, A., Sârbu F. Contact mechanics and friction in PTFE coaxial sealing systems. *International Journal of Mechanics and Materials in Design*, December 2018, Volume 14, Issue 4, pp 635–646, ISSN 1569-1713, DOI <https://doi.org/10.1007/s10999-017-9394-1>, ISI Impact Factor: 3,143; SRI: 1,356 (Q1).
8. Petre, I., Deaconescu, A., Sârbu, F., Deaconescu, T. Pneumatic Muscle Actuated Wrist Rehabilitation Equipment Based on the Fin Ray Principle. *Strojniški vestnik - Journal of Mechanical Engineering* 64(2018)6, 383-392 © 2018 Journal of Mechanical Engineering. ISSN: 0039-2480, DOI: <http://dx.doi.org/10.5545/sv-jme.2017.5123> ISI Impact Factor: 1,182; SRI: 0,503.
9. Deaconescu, T., Deaconescu, A. Pneumatic Muscle-Actuated Adjustable Compliant Gripper System for Assembly Operations, *Strojniški vestnik - Journal of Mechanical Engineering* 63(2017)4, 225-234 © 2017 Journal of Mechanical Engineering. ISSN: 0039-2480, DOI:10.5545/sv-jme.2016.4239 ISI Impact Factor: 0.914 ; SRI: 0,515.
10. Deaconescu, A., Deaconescu T. Low Friction Materials Used in the Construction of Hydraulic Sealing Systems in the Case of Small Velocities. *Journal of the Balkan Tribological Association*, Vol. 22, No 1, 454–463 (2016), ISSN 1310-4772, ISI Impact Factor: 0.737 ; SRI: 0,061.
11. Deaconescu, A., Deaconescu T. Experimental and Statistical Parametric Optimisation of Surface Roughness and Machining Productivity by Lapping. *Transactions of FAMENA*, Vol.39, No.4/2015, pag. 65 – 78, ISSN 1333-1124 (Print), ISSN 1849-1391 (Online), ISI Impact Factor: 0.476; SRI = 0,187.
12. Deaconescu T., Deaconescu A. 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.
13. Petre I., Deaconescu A., 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.