PERSONAL INFORMATION

Codruța Ileana JALIU

cjaliu@unitbv.ro

POSITION IOSUD UTBv

PhD Coordinator
Doctoral studies field: Mechanical Engineering
Since 2010

EXPERTISE FIELD AND RESEARCH INTEREST AREAS

- mechanisms and mechanical transmissions
- renewable energy systems – wind turbines, small hydropower plants
- robotics / mechatronics
- product design and development

WORK EXPERIENCE

1991-present

Assistant, Lecturer, Associate Professor, Professor (2003 –)
PhD Coordinator in Mechanical Engineering since 2010
Member of the evaluators group for Quality Assurance in Higher Education (2009 –)
Dean of Product Design and Environment Faculty (2010 - 2012), (2016 -)
Head of Product Design, Mechatronics and Environment Department (2011 - 2015)
Head of Product Design and Robotics Department (2008-2010)
Deputy-Head of Product Design and Robotics Department (2000-2008), Scientific secretary of Product Design and Robotics Department (1998-2000),
Member in Doctoral School Council of UTBv (2011-2016)
Member in the Board of the Faculty of Technological Engineering (1996 – 2010)
Member in the Board of the Faculty of Product Design and Environment (2010 – 2016)

Transilvania University of Brasov, 29, Eroilor, 500036, Brasov

- Teaching activities and research in mechanical systems, mechatronics, robotics, renewable energy systems;
- As Dean and Head of Product Design, Mechatronics and Environment Department, the general responsibilities included the development of the faculty and department strategy in education, research and quality assurance;
- Coordinator of the Industrial Design bachelor programs (taught in Romania and in English)
- PhD Coordinator since 2010 (3 finalized PhD thesis and a post-doctoral program)
- The experience in research includes participation in solving 44 National and International Funded Research Grants, 3 of them as coordinator (grant CNCSIS, A 1060 / 2005, grant PNII ID_140/2007, Euromaint: European Maintenance: Professional skills for Maintenance Managers & Maintenance Engineers, Leonardo da Vinci Project NL/06/B/P/PP/157604, 2006 – 2008)

Business or sector Research and Education

1987 - 1991

Engineer

CARFIL S.A.

Toolmaker's shop

Business or sector Production

EDUCATION AND TRAINING

2016

Graduation certificate Revision ISO 9001:2015 – Risk Management new approach and requirements

GLOBAL CERTIFICATION ROMANIA

2002 **Graduation certificate** Informatics applied in engineering

Transilvania University of Brasov, 29, Eroilor, 500036, Brasov

1993-1999 **PhD diploma in Industrial Engineering field** EQF 7

Transilvania University of Brasov, 29, Eroilor, 500036, Brasov

- Contribution to the optimization of vertebrate robots

1982-1987 **Engineer diploma, TCM (Machine building)** EQF 5

Transilvania University of Brasov, TCM Faculty

- Competencies in mechanical and industrial engineering

PERSONAL SKILLS

Mother tongue(s): Romanian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	Proficient user	Proficient user	Proficient user	Proficient user	Proficient user
	C1				
Russian	Independent user	Independent user	Independent user	Independent user	Independent user
	B1				
German	Basic user	Basic user	Basic user	Basic user	Basic user
	A1				

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
Common European Framework of Reference for Languages

Communication skills

Team work,: commitment to teaching and research activities carried out in a team, creative attitude and support for colleagues.
Mediation skills: positive and active attitude.
Intercultural skills: experiences of study, teaching and living in several European countries (UK, Germany, France, Austria).

Organisational / managerial skills

Capacity to coordinate teams, projects and budgets in academic environment, acquired / developed as a result of the management positions held:
2000-2008: Deputy head of department, Department of Product Design and Robotics, Transilvania University of Brasov;
2008-2010: Head of Product Design and Robotics Department, Transylvania University of Brasov;
2010 – 2012: Dean of Product Design and Environment Faculty
2011 – 2015: Head of Product Design, Mechatronics and Environment Department
2016 - : Dean of Product Design and Environment Faculty
Member in 44 Research project teams, 3 coordinated projects / grants
2006-2008: Local coordinator of the Leonardo da Vinci pilot project "EUROMAINT, ref.no. NL/06/B/P/PP/157604 " Euromaint: European Maintenance: Professional skills for Maintenance Managers & Maintenance Engineers
Vice-president of Brasov branch of ARoTMM (2005 – 2013)
Senior editor of the Bulletin of Transilvania University of Brasov – Series I.
Organizer of the international conferences SYROM (2009, 2013), CSE, (2008, 2011, 2014), PRASIC (1998, 2002, 2006, 2016, 2018), National Seminar of Mechanisms (2006) – Brașov, Romania
Reviewer at ISI journals and international conferences

Job-related skills	Teaching and scientific research in the fields of Mechanical Engineering, Renewable Energy Systems and Mechatronics; Quality evaluation and assurance in the higher education Teaching mobility in U.K., Germany, Austria Specialization in robotics (U.K.), France (quality management), Germany (mechatronics), Austria (small hydropower plants)

ADDITIONAL INFORMATION

Publications	8 monographs, 3 teaching manuals, 162 scientific papers.
Projects	Participation in 44 projects / grants
Honours and awards	2015 Award of the Romanian Academy for the monograph The Role of Mechanisms in Renewable Energy Systems (as co-author)
Memberships	Member of the Romanian Association for Mechanism and Machine Science (ARoTMM) and of IFToMM Funding Member of the Romanian Association for Small Hydropower (ROSHA); Member of the Romanian Association for Mechanical Transmissions ROAMET
Patents	5 patents
H Indexes	HindexISI=3; HindexScopus=7; HindexGoogleScholar=9

ANNEXES

03.04.2019 Prof. dr.eng. Codruța Ileana JALIU

ANNEX to CV

LIST OF RELEVANT PUBLICATIONS /RESEARCH (selection)

1. Vișa, I., Jaliu, C., Duță, A., Neagoe, M. s.a. The Role of Mechanisms in Sustainable Energy Systems, Ed. Universității Transilvania din Brașov, 2015, ISBN 978-606-19-0571-3
2. Săulescu, R., Neagoe, M., Jaliu, C. Conceptual Synthesis of Speed Increasers for Wind Turbine Conversion Systems, Energies issn:1996-1073, 2018 http://www.mdpi.com/1996-1073/11/9/2257 .
3. Climescu, O., Săulescu, R., Jaliu, C. Specific features of a counter-rotating transmission for renewable energy systems. Environmental Engineering and Management Journal, August 2011 Vol.10, ISSN 1582 - 959, pp. 1105-1113., http://www.eemj.icpm.tuiasi.ro/pdfs/vol10/no8/26_348_Climescu_11.pdf
4. Jaliu, C., Săulescu, R., Ciobanu, D. Hybrid system for a stand-alone application, Proceedings of 2016 International Conference on Production Research - Regional Conference Africa, Europe and the Middle East (ICPR-AEM 2016) And 4th International Conference On Quality And Innovation In Engineering And Management (QIEM 2016) issn:978-606-737-180-2, 2016.
5. Săulescu, R., Neagoe, M., Jaliu, C. Improving the energy performance of wind turbines implemented in the built environment using counter-rotating planetary transmissions. Materials Science and Engineering, issn:1757-8981, 2016, DOI: 10.1088/1757-899X/147/1/012089. https://iopscience.iop.org/article/10.1088/1757-899X/147/1/012089/pdf
6. Ciobanu, D., Eftimie, E., Jaliu, C. The influence of measured/simulated weather data on evaluating the energy need in buildings, Energy Procedia, Volume: 48 Pages: 796-805, DOI: 10.1016/j.egypro.2014.02.092, 2014. https://www.sciencedirect.com/science/article/pii/S1876610214003543
7. Todi-Eftimie, A., Velicu, R., Săulescu, R., Jaliu C. Bearing friction vs. chain friction for chain drives, 3rd International Conference on Advanced Engineering Materials and Technology (AEMT 2013), Journal: Advanced Materials Research Vols. 753-755 (2013) pp 1110-1113, Trans Tech Publications, Switzerland, doi:10.4028/www.scientific.net/AMR.753-755.1110. https://www.scientific.net/AMR.753-755.1110
8. Săulescu, R., Jaliu, C., Climescu, O., Diaconescu, D. On the use of 2 DOF planetary gears as “speed increaser” in small hydros and wind turbines. Proceedings of the ASME 2011 International Design Engineering Technical Conferences & Computers and Information in Engineering Conference, IDETC/CIE 2011, 28 - 31.08, 2011, Washington, DC, USA, CD Proceedings, ISBN: 987-0-7918-3856-3. http://proceedings.asmedigitalcollection.asme.org/proceeding.aspx?articleid=1641608
9. Jaliu, C., Saulescu, R., Diaconescu, D., Neagoe, M., Climescu, O. Dynamic Features of a Planetary Speed Increaser Usable in Small Hydropower Plants. Proceedings of the 5th IASME / WSEAS International Conference on ENERGY & ENVIRONMENT (EE '10), pp. 241-246, February 23-25, 2010, University of Cambridge, UK. ISSN: 1790-5095, ISBN: 978-960-474-159-5.
10. Jaliu, C., Visa, I., Diaconescu, D.V., Săulescu, R., Neagoe, M., Climescu, O. Dynamic Model of a Small Hydropower Plant. OPTIM 2010. Proceedings of the 12th International Conference on Optimization pf Electrical and Electronic Equipment. Renewable Energy Conversion and Control. May 20-21.10, Braşov, pp. 1216-1223. ISSN: 1842-0133, ISBN 978-973-131-080-0. https://ieeexplore.ieee.org/document/5510517
11. Planetary transmission, Patent no. BI RO 126694/28.08.15.
12. Chain planetary transmission, Patent no. BI RO 128109/30.07.2014.
13. Cycloid roller transmission, Patent no. BI RO125177 B1/30.11.2011.
14. Device for hydrogen and oxygen production by photo-electrolysis Patent no. RO 125540/28.06.2013.
15. Tracking mechanism, Patent no. BI RO97189/1989.