

PERSONAL INFORMATION

Radu Gabriel SĂULESCU✉ rsaulescu@unitbv.roPOSITION
IOSUD UTBVPhD Coordinator
Doctoral studies field: Mechanical Engineering
Since 2019EXPERTISE FIELD AND
RESEARCH INTEREST AREAS

- mechanisms and mechanical transmissions
- renewable energy systems – wind turbines
- product design and development

WORK EXPERIENCE

2003-present

Junior Teaching, Assistant, Lecturer, Associate Professor, Professor (2019-)Transilvania University of Brasov, Eroilor 29, Brasov, Romania, www.unitbv.ro

- Teaching activities and research in mechanical systems, renewable energy systems;
- PhD Coordinator since 2019
- Responsible for the quality of the Industrial Design study program
- Responsible CICOC (Center for Information, Counseling and Career Guidance) on the faculty
- The experience in research includes participation in solving 22 National and International Funded Research Grants, 2 of them as coordinator (grant CNCSIS, tip TD, nr **110/2003**, grant CNCSIS, tip TD, nr **143/2002**), la 1 scientific manager (grant CDS Dynamic Tribology, nr. 4029/26.03.2008, Act adit. 3/01.02.2012)

Business or sector Research and Education

EDUCATION AND TRAINING

2014

Training program in Blended-Learning and modern educational technologies in higher education

Transilvania University of Brasov

- Initiative to achieve educational materials Blended Learning format

2014

ESEIA International Summer school on Smart Metropolitan Regions of Tomorrow

Transilvania University of Brasov

- Summer School in intelligent communities

2013

Graduation Certificate, Training and awareness program to ensure quality in distance education

Spiru Haret University

- The importance of quality in higher education

2007

Scholarships renewable energy

National Agency for Energy, Viena – Austria

- The importance of the implementation of renewable energy used for community

2001 - 2004

Doctor in Mechanical Engineering

Transilvania University of Brasov

- Deepening mechanical systems

2002

Informatică aplicată în inginerie

Transilvania University of Brasov

- Word, excel, acces, html.

2001 - 2002 **Master in Engineering mechanical power transmission systems**

Transilvania University of Brasov , Faculty of Engineering Technology

- Mechanical transmission, Virtual Prototyping

1996 - 2001 **Design Engineer furniture and finished wood products**

Transilvania University of Brasov , Faculty of Wood Industry

- Mechanisms, Furniture Design, Building wooden houses, Drawing decorative , Machine Tools

PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	Enter level	Enter level	Enter level	Enter level	Enter level
B2					

Organisational / managerial skills

Coordination capacities of research teams and project management / grants obtained through competition: member in 2 Research project teams, 2 coordinated projects / grants and 1 scientific manager

Organizer of the international conferences SYROM (2009, 2013), CSE, (2014), PRASIC (2018)

Since 2007 responsible for the faculty schedule

Since 2016 responsible in the Central Admissions Commission

Job-related skills

Teaching and scientific research in the fields of Mechanical Engineering, Renewable Energy Systems

Quality assurance in the higher education

ADDITIONAL INFORMATION

Publications 10 monographs , 2 teaching manuals ,150 scientific papers

Projects Participation in 22 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)

Winner of Festo young Researcher and Scientist Support Scholarship Award, 2008, Vienna.

Memberships

Member of the Romanian Association for Mechanism and Machine Science (ARoTMM) and of IFToMM

Patents 10 patents

H Indexes HindexISI=5; HindexScopus=8; HindexGoogleScholar=11

ANNEXES

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.
2. M. Neagoe, R. Saulescu, C. Jaliu. Design and Simulation of a 1 DOF Planetary Speed Increaser for Counter-Rotating Wind Turbines with Counter-Rotating Electric Generators. *Energies* 2019, 12, 1754; doi:10.3390/en12091754 WOS:000469761700170
3. 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>
4. I Visa, A Duta, M Comsit, M Moldovan, D Ciobanu, R Saulescu, B Burduhos. Design and experimental optimisation of a novel flat plate solar thermal collector with trapezoidal shape for facades integration. *Applied Thermal Engineering* 90, 432-443, 2015
5. 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.eemi.icpm.tuiasi.ro/pdfs/vol10/no8/26_348_Climescu_11.pdf
6. Vișa, I., Diaconescu, D., Saulescu, R., Vătășescu, M., Burduhos, B. New Linkage with Linear Actuator for Tracking PV Systems with Large Angular Stroke. *Chinese Journal Of Mechanical Engineering*, pp. 744-751, Volume 24, No: 5, 2011, ISSN: 1000-9345
7. M. Neagoe, R. Saulescu, C. Jaliu, N. Cretescu. Novel Speed Increaser used in Counter-Rotating Wind Turbines. *New Advances in Mechanisms, Mechanical Transmissions and Robotics, Mechanisms and Machine Science* 46, 143-151, 2017, DOI 10.1007/978-3-319-45450-4_15, Ed. Springer. WOS:000404231000015
8. 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. WOS:000436122900021
9. 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>
10. R Saulescu, M Neagoe, O Munteanu, N Cretescu. Performance Analysis of a Novel Planetary Speed Increaser used in Single-Rotor Wind Turbines with Counter-Rotating Electric Generator. Iasi, Romania, 2016, journal: *Materials Science and Engineering – IOP Conference Series: Materials Science and Engineering* 147 (1), 012090, doi:10.1088/1757-899X/147/1/012090. WOS:000390720200090
11. 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>
12. 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>
13. 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 of Electrical and Electronic Equipment. Renewable Energy Conversion and Control*. May 20-21.10, Brașov, pp. 1216-1223. ISSN: 1842-0133, ISBN 978-973-131-080-0. <https://ieeexplore.ieee.org/document/5510517>
14. Cycloid roller transmission A/00323 din 03.06.2008, patent no. RO125177-B1.
15. Tracking mechanism A/00622 din 18.08.2008, patent no. RO125253-A2
16. Tracking mechanism A/00677/29.07.2010, patent no. RO126335-A0
17. Tracking mechanism A/00676/29.07.2010, patent no. RO126334-A0
18. Planetary transmission A/00326/08.04.2011, brevet nr. RO126694-A0
19. Tracking mechanism monoaxial with two linear actuators A/00467/22.06.2012, patent no. RO 127979 A0
20. Chain planetary transmission A/00084/10.02.2010, patent no. RO128109-A2
21. Tracking mechanism articulated with gear wheels A/01074/11.11.2010, patent no. RO 126230 A0
22. Tracking mechanism articulate A/01001/22.10.2010, patent no. RO 126149 A0
23. System and method of orienting a flat solar thermal collector according to the thermal requirement A/00109/20.02.2012, patent no. RO 127678 A0