INFORMAŢII PERSONALE Creţescu (Raţ) Nadia Ramona

ncretescu@unitbv.ro

Sexul F | Data naşterii 07/05/1979 | Naţionalitatea Română

EXPERIENŢA PROFESIONALĂ

2014-prezent

Şef lucrări la facultatea Design de Produs şi Mediu

Universitatea Transilvania din Brasov, B-dul Eroilor nr. 29, 500036 Braşov, România,

Web: www.unitbv.ro

- Pregătirea şi predarea cursurilor şi a laboratoarelor;
- Întocmirea temelor de proiect şi urmărirea dezvoltării acestora de către studenţi;
- Evaluarea studenţilor;
- Implicarea în procesul de admitere.

Tipul sau sectorul de activitate Educaţie

2002-2014

Preparator la facultatea Design de Produs şi Mediu

Universitatea Transilvania din Brasov, B-dul Eroilor nr. 29, 500036 Braşov, România,

Web: www.unitbv.ro

- Pregătirea şi predarea laboratoarelor;
- Întocmirea temelor de proiect şi urmărirea dezvoltării acestora de către studenţi;
- Evaluarea studenţilor;
- Implicarea în procesul de admitere.

Tipul sau sectorul de activitate Educaţie

EDUCAŢIE ŞI FORMARE

2003-2011 **Diplomă de Doctor în domeniul Inginerie Mecanică**
Universitatea Transilvania din Braşov, România.
- Principalele abilităţi acumulate: redactarea de lucrări ştiinţifice; analiza şi sinteza cercetărilor în domeniu.

2002-2003 **Diplomă de Studii Aprofundate în domeniul Robotică**
Universitatea Transilvania din Braşov, România.

1997-2002 **Diplomă de Inginer Diplomat (secţia Roboţi Industriali)**
Universitatea Transilvania din Braşov, România.

1993-1997 **Diplomă de Bacalaureat**
Liceul Grigore Moisil, Braşov, România.

COMPETENTE PERSONALE

Limba(i) maternă(e) Română

Alte limbi străine cunoscute

	INTELEGERE		VORBIRE		SCRIERE
	Ascultare	Citire	Participare la conversaţie	Discurs oral	
Franceză	B2	B2	B2	B2	B1
Engleză	B2	B1	B1	B1	B1

Competenţe de comunicare
- bune competenţe de comunicare dobândite prin experienţa de predare;
- excelente abilităţi de interacţiune cu studenţii, dobândite prin activitatea de predare interactivă.

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Competenţe dobândite la locul de muncă

- o bună capacitate de adaptare, comunicare, autodezvoltare personală şi creativitate (obţinute în urma activităţilor de cercetare şi predare)

Competenţe informatice

- o bună cunoaştere a instrumentelor Microsoft Office™, precum şi a programelor inginereşti precum ADAMS, CATIA, Etc.

INFORMATII SUPLIMENTARE

Publicaţii relevante

1. **Cretescu, N.,** Neagoe, M., Saulescu. R. Dynamic Analysis of a Delta Parallel Robot with Flexible Links and Joint Clearances. Applied Sciences. 2023; 13(11):6693. https://doi.org/10.3390/app13116693. FI: 2.838, SRI: 0.885, ISSN: 2076-3417.
2. Neagoe, M., Saulescu, R., Jaliu, C., Munteanu, O., **Cretescu, N.** A Comparative Performance Analysis of Four Wind Turbines with Counter-Rotating Electric Generators. Applied Sciences 2022, 12(19):4233, p. 1-24, https://doi.org/10.3390/app12094233 (FI: 2.838, Q2 - ENGINEERING, MULTIDISCIPLINARY, SRI: 0.885, WOS: 000794733500001).
3. Neagoe, M., Saulescu, R., Jaliu, Cretescu, N. Steady-State Modeling and Simulation of a 1-DOF Dual-Input and Dual-Output Planetary Speed Increaser for Counter-Rotating Wind Turbines. Proceedings of the 2nd Symposium on Mechanical Systems and Robotics, May 19-21, 2022 Rapid City, South Dakota, USA, in Larochelle, P., McCarthy, M. (ed.), Proceedings of the 2022 USCToMM Symposium on Mechanical Systems and Robotics, Mechanisms and Machine Science Vol. 118, Springer Nature Switzerland AG 2022, ISSN 2211-0984, ISSN 2211-0992 (electronic), ISBN 978-3-030-99825-7, ISBN 978-3-030-99826-4(eBook), DOI 10.1007/978-3-030-99826-4_3, pp. 20-31.
4. Saulescu, R., Neagoe, M., **Cretescu, N.** Comparative Analysis of Two Wind Turbines with Counter-Rotating vs. Fixed-Stator Electric Generator, 9th International Conference on Advanced Concepts in Mechanical Engineering, ACME 2020, Iasi, Romania, 4-5 June 2020, IOP Conference Series: Materials Science and Engineering, Volume 444, Issue 5, 052007, pp. 1-12, 29 November 2018, ISSN: 17578981, DOI: 10.1088/1757-899X/444/5/052007.
5. Neagoe, M., Burduhos, B., Mohammadi, F., **Cretescu, N.** A Comparative Analysis of the Solar Energy Receiving Share Using Four Tracking System Types at Mid-Latitude Regions, In: Visa, I. and Duta, A. (eds.), Solar Energy Conversion in Communities, Springer Proceedings in Energy, Springer Nature Switzerland AG 2020, Chapter 7, p. 93-110, DOI: 10.1007/978-3-030-55757-7_7, ISSN 2352-2534, ISBN 978-3-030-55756-0, The 6th Conference on Sustainable Energy, CSE2020, 22-24 October 2020, Brasov, Romania.
6. Burduhos, B., Visa, I., Neagoe, M., Devetakovic, M., **Cretescu, N.** Comparative Analysis of Software Accuracy in Photovoltaic Energy Estimation for a Temperate Mountain Climate, In: Visa, I. and Duta, A. (eds.), Solar Energy Conversion in Communities, Springer Proceedings in Energy, Springer Nature Switzerland AG 2020, Chapter 9, p. 125-139, DOI: 10.1007/978-3-030-55757-7_9, ISSN 2352-2534, ISBN 978-3-030-55756-0, The 6th Conference on Sustainable Energy, CSE2020, 22-24 October 2020, Brasov, Romania.
7. Neagoe, M., Saulescu, R., Jaliu C., **Cretescu, N.** Efficiency Analysis of a Planetary Speed Increaser for Wind Turbines with Counter-Rotating Versus Fixed-Stator Electric Generator, 2020 7th International Conference on Energy Efficiency and Agricultural Engineering (EE&AE), Ruse, 2020, pp. 1-4, doi: 10.1109/EEAE49144.2020.9279068, https://ieeexplore.ieee.org/document/9279068/authors#authors
8. **Cretescu, N.,** Neagoe, M. Dynamic Modelling of an Isoglide T3 Type Parallel Robot. In: Lovasz, EC., Maniu, I., Doroftei I., Ivanescu, M., Gruescu. C.M. (eds) New Advances in Mechanisms, Mechanical Transmissions and Robotics. Joint International Conference of the International Conference on Mechanisms and Mechanical Transmissions and the International Conference on Robotics, MTM&Robotics 2020, 14-16 October 2020, Timişoara, Romania. Mechanisms and Machine Science, Vol. 88, 2021. Springer, Cham, p. 235-248, DOI: 10.1007/978-3-030-60076-1_21, ISBN 978-3-030-60075-4.
9. Burduhos, B., Visa, I., Neagoe, M., **Cretescu, N.** Simulated vs. produced electrical energy of a 9.6 kWp PV system installed in a mountain temperate climate, Journal of Science and Arts, No. 1(50), pp. 215-224, 2020,ISSN2068-3049, http://www.josa.ro/docs/josa_2020_1/c_03_Burduhos_215-224_10p.pdf
10. Neagoe, M., Visa, I., Duta, A., **Cretescu, N.** A New Approach on the Protection Against Overheating of Flat Plate Solar-Thermal Collectors, Proceedings of the Conference for Sustainable Energy (CSE) 2017, Brasov, 19-21 October 2017, Nearly Zero Energy Communities, Editors Ion Visa and Anca Duta, Ed. Springer, pp. 283-295, ISBN 978-3-319-63214-8, Springer Proceedings in Energy, DOI 10.1007/978-3-319-63215-5_21.
11. **Cretescu, N.,** Neagoe, M., Saulescu, R. Kinematic and Dynamic Analysis of a 4DOF Parallel Robot with Flexible Links, Proceedings of The Joint International Conference of the XII International Conference on Mechanisms and Mechanical Transmissions (MTM) and the XXIII International Conference on Robotics (Robotics '16), Aachen, 26-27 October 2016, New Advances in Mechanisms, Mechanical Transmissions and Robotics, Editors Burkhard Corves, Erwin-Christian

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Lovasz, Mathias Husing, Inocentiu Maniu, Corina Gruescu, Ed. Springer, pp. 473-481, ISBN 978-3-319-45449-8, Mechanisms and Machine Science 46, DOI 10.1007/978-3-319-45450-4_48 (ISI Proceedings).

12. **Cretescu, N. R.**, Kinematic and Dynamic Simulation of a 3DOF Parallel Robot, BULLETIN OF THE TRANSILVANIA UNIVERSITY OF BRASOV • VOL. 8 (57) No.1 – 2015, SERIES I - ENGINEERING SCIENCES, ISSN 2065-2119 (Print), ISSN 2065-2127 (CD-ROM), pp. 73-78.
13. **Cretescu, N.,** Neagoe, M. Rigid versus flexible link dynamic analysis of a 3DOF Delta type parallel manipulator, Applied Mechanics and Materials, Vol. 762 (2015) pp 101-106, Trans Tech Publications, Switzerland, ISBN-13: 978-3-03835-444-4, online: http://www.scientific.net.
14. Neagoe M., **Creţescu N.**, Săulescu R., Dynamic modelling of a 3DOF medical parallel robot with one decoupled motion. Jurnal: Advanced Materials Research Vols. 837 (2014) pp 594-599, Trans Tech Publications, Switzerland, doi: 10.4028/www.scientific.net/AMR.837.594.
15. **Creţescu N.**, Neagoe M., Săulescu R., Kinematic modelling and VR simulation of a 3DOF medical parallel robot with one decoupled motion. Jurnal: Advanced Materials Research Vols. 837 (2014) pp 567-572, Trans Tech Publications, Switzerland, doi: 10.4028/www.scientific.net/AMR.837.567.
16. Neagoe, M., Visa, I., **Cretescu, N.,** Moldovan, M. On a New Parallel Tracking System for Accurate Orientation of Concentrated Solar Convertors, Applied Mechanics and Materials Vol. 658 (2014) pp 105-110, Trans Tech Publications, Switzerland, doi:10.4028/www.scientific.net/AMM.658.105.
17. **Săulescu, R., Munteanu, O., Neagoe, M., Creţescu, N.**, On the eccentricity effects in solar tracking triangular linkage with linear actuator, The 11th IFToMM International Symposium on Science of Mechanisms and Machines-SYROM 2013, Braşov, 11-12 November 2013 (ISI Proceedings).
18. **Rat, N.R,** Neagoe, M., Diaconescu, D., Stan, S.D. Dynamic simulations regarding the influence of the load-rigidity correlation on the working accuracy of a medical Triglide parallel robot, ISSN 1392 - 1207. MECHANIKA. 2011. 17(2): 178-181.Print ISSN: 1392-1207 . Online ISSN: 2029-6983. http://dx.doi.org/10.5755/j01.mech.17.2.336.
19. Neagoe, M., Diaconescu, D., Jaliu, C., Stan, S.D., **Cretescu, N.**, Saulescu, R. On the Accuracy of a Stewart Platform: Modelling and Experimental validation. Published: Computational intelligence and modern heuristics, In-Tech, Olajnica, Croatia, 2010, cap. 6, pp.75-98, ISBN 978-953-7619-28-2.
20. **Rat, N.R.,** Neagoe, M., **Diaconescu,D., Stan, D.S., Bălan, R. Dynamic modeling and VR** Simulation of 3DOF medical parallel robots, Chapter in *Technological Developments in Education and Automation*, pp. 297-302, Magued Iskander, Vikram Kapila and Mohammad A. Karim (Ed.), Springer Netherlands Pub. ISBN 978-90-481-3655-1 (Print) 978-90-481-3656-8 (Online), 2010, DOI: 10.1007/978-90-481-3656-8_55.
21. **Rat, N. R., Neagoe, M. „Rigid vs. flexible links dynamic analysis of a 3DOF parallel robot".** Proceedings of the 3rd IEEE International Conference on ASME 2009, DEST '09, 1-3 June 2009, Istanbul, Turkey, p. 534-539, ISBN: 978-1-4244-2345-3. Digital Ecosystems and Technologies, 2009, DOI: 10.1109/DEST.2009.5276749.
22. **Rat, N. R., Neagoe, M., Gogu, G., Stan, S. D. „Dynamic analysis of an Isoglide3**-T3 parallel robot". Annals of DAAAM 2009 & Proceedings of the 20th International DAAAM Symposium. Intelligent Manufacturing & Automation: Theory, Practice & Education, 25-28th November 2009, Vienna, Austria, pp. 15, ISSN 1726-9679, ISBN 978-3-901509-70-4 (ISI Proceedings).
23. **Rat, N., Neagoe, M., Gogu, G., „Theoretical and experimental research on the dynamics of a 4** DOF Isoglide4-T3R1 parallel robot", SYROM2009. ISBN: 978-90-481-3521-9 e-ISBN: 978-90-481-3522-6, DOI 10.1007/978-90-481-3522-6, Springer Heidelberg Dordrecht London New York.
24. Stan, S. D., Maties, V., Balan, R., Gogu, G., **Rat, N. R., „Trajectory planning and simulation of Isoglide3 parallel robot". Annals of DAAAM 2009 & Proceedings of the 20th International DAAAM** Symposium. Intelligent Manufacturing & Automation: Theory, Practice & Education, 25-28th November 2009, Vienna, Austria, pp. 227, ISSN 1726-9679, ISBN 978-3-901509-70-4 (ISI Proceedings).

ANEXE