A N E X A B.3.2.2.9.

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Instituția unde este titular: **Universitatea „Vasile Alecsandri" din Bacău**
Facultatea**: de Inginerie**
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L I S T A

lucrărilor ştiinţifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

Teza de doctorat în Inginerie Industriala: Cercetări teoretice şi experimentale privind prelucrarea prin procedeul de deformo-frezare Instituţia Universitatea „Politehnica" Bucureşti

B. Cărţi si capitole în cărţi publicate în ultimii 10 ani

1. Prelucrarea si analiza datelor in Excel, Ionel Raveica format electronic 2019, 234p http://www.easyclass.com/sections/49817/updates
2. Controlul proceselor de prelucrare folosind aplicatii software specifice, Ionel Raveica format electronic 2019 , 205p http://www.easyclass.com/sections/49926/updates
3. Fabricarea pieselor din mase plastice şi composite- indrumar de laborator format electronic 2021
4. Controlul proceselor de prelucrare folosind aplicatii software specifice, Ionel Raveica format electronic 2019 , 205p http://www.easyclass.com/sections/49926/updates
5. Infografica note de curs modul Onshape 2022 format electronic Teams
6. **DINAMICA SISTEMELOR MECANICE PENTRU MECATRONICĂ. CURS ŞI APLICAȚII 2023, Ghenedi A.S, Raveica I.C. editiura** Alma Mater ISBN 978-606-527-698-7, 236 pag
7. Elemente de grafica asistata in Onshape Vol. 1 Notiuni introductive privind modelarea primitivelor geometrice **2026 Raveica I.C s.a. Editiura** Alma Mater ISBN 978-606-527-1: 978-606-527-745-8, 166 pag
8. Elemente de grafica asistata in Onshape Vol. 2 Fundamentele modelarii 3D **2026 Raveica I.C s.a. Editiura** Alma Mater ISBN 978-606-744-1: 978-606-527-746-5, pag 210
9. Fabricatie virtuala – indrumar aplicatii practice, 2026, **Raveica I.C s.a. Editiura** Alma Mater ISBN: 978-606-527-748-9, pag 160

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

1. Eugen Herghelegiu, Carol Schnakovszky,Nicolae-Catalin Tampu, Maria-Crina Radu, Bogdan-Alexandru Chirita,Ionel Crinel Raveica, Ionel Olaru, Bogdan Nita, Andrei Zaharia Investigation of the Impact of Intensive EDM Regimes on Electrode Wear When Machining C120 Steel Parts April 2026Applied Sciences 16(7):3464, DOI: 10.3390/app16073464

2. Eugen Herghelegiu, Oana Ghiorghe, Maria-Crina Radu, Carol Schnakovszky, Petrica Radu, **Petrica Radu**, Nicolae-Catalin Tampu, Bogdan-Alexandru Chirita, Ionel Crinel Raveica , Bogdan Nita Investigation of the Impact of Intensive EDM Regimes on Manufacturing Efficiency and Surface Quality of C120 Steel Parts, January 2026, Processes 14(2):189, DOI 10.3390/pr14020189

3. Ionel Crinel Raveica , Ionel Olaru, Eugen Herghelegiu, Nicolae Catalin Tampu, Maria-Crina Radu , Bogdan Alexandru Chirita, Carol Schnakovszky and Vlad Andrei Ciubotariu The

Their Insertion in the Labor Market in a Sustainable Economy: A Students' Opinions Survey *Sustainability*, 2024, vol. 16, issue 17, 1-24

4. Marin Alexandru,Ionel Crinel Raveica, Considerations on Quality Parameters at Deformation and Splitting Process of Interior and Exterior Surfaces Advanced Materials Research, Vol. 1036, pp. 399-404, 2014 (Volume 1036) Modern Technologies in Industrial Engineering II, https://doi.org/10.4028/www.scientific.net/AMR.1036.399

5. Ionel Crinel Raveica, Cristina Mohora, Gabriela Raveica, Andra Pena Using AutoCAD Application as Instrument for Biomechanical Assessment of Orthopedic Impairments Applied Mechanics and Materials (Volume 436) DOI 10.4028/www.scientific.net/AMM.436.277

D. Lucrări publicate în ultimii 10 anii în reviste şi volume de conferinţe cu referenţi (neindexat)

- Reviste

1. Raveica I, Raveica G Virtual reality applied in stroke rehabilitation OPROTEH Sesiunea 1a optimization of manufacturing processes and systems & computer aided design and manufacturing 2018

2. Raveica Gabriela, Raveica I. Crinel Study regarding the role of occupational therapy in public health education program planning 8th World Conference on Learning, Teaching and Educational Leadership (WCLTA-2017), Universidade Aberta, Lisbon, Portugal, 2017

3. Tabacaru D.C:, Raveica I. scientific study research-Chemistry &Chemical Engineering, Biotechnology, Food industry ISSN 1582-541 2017 pag 254-259

4. Raveica Gabriela, Raveica I. Crinel, Rață Marinela, Rață Assistive technology aspects in Romanian schools as an intervention to promote the inclusive education for children with physical limitations 8th World Conference on Learning, Teaching and Educational Leadership (WCLTA-2017), Universidade Aberta, Lisbon, Portugal, 2017

- Selecţie cu maximum 20 lucrări în volume de conferinţe

1. Ionel Raveica GENERATIVE DESIGN AND NEW DESIGNERS' ROLE IN THE MANUFACTURING INDUSTRY - BIBLIOMETRIC STUDY- Oproteh 2025
2. Ionel Olaru, Ionel Raveica STUDY ON DETERMINING THE FUNCTIONAL CHARACTERISTICS OF THE MAIN PUMP FROM A HYDRAULIC DRIVE Oproteh 2025
3. Ionel Raveica, Ionel Olaru INPACT OF DIGITAL TECHNOLOGIES ON STUDENTS FROM INDUSTRIAL ENGINEERING DOMAIN The 19 th International Conference of Constructive Design and Technological Optimization in Machine Building Field OPROTEH 2024
4. Ionel Crinel Raveica, Multi-objective optimization of injection molding process using surface response methodology The 18 th International Conference of Constructive Design and Technological Optimization in Machine Building Field OPROTEH 2023
5. Ionel Crinel Raveica, Cristina Mohora, Gabriela Raveica, Andra Pena Using AutoCAD Application as Instrument for Biomechanical Assessment of Orthopedic Impairments Applied Mechanics and Materials (Volume 436) DOI 10.4028/www.scientific.net/AMM.436.277
6. Eugen Herghelegiu, Carol Shnakovszky Miroslav Radovanovic, Crinel Ionel Raveica COMPARATIVE STUDY ON THE DIMENSIONAL ACCURACY AND SURFACE QUALITY OF PLATES CUT Raveica Ionel, Herghelegiu EugenRadovanovic, Crinel Ionel Raveica ModTech International Conference Modern Technologies, Quality and Innovation 24-26 May 2012, Sinaia, Romania vol 1. Pag433- 436
7. Marin Alexandru,Ionel Crinel Raveica, Considerations on Quality Parameters at Deformation and Splitting Process of Interior and Exterior Surfaces Advanced Materials Research, Vol. 1036, pp. 399-404, 2014 (Volume 1036) Modern Technologies in Industrial Engineering II, https://doi.org/10.4028/www.scientific.net/AMR.1036.399

8. Raveica Ionel STUDY ON ENVIRONMENTAL ASSESSMENT OF RECYCLING IN ROMANIA ACCORDING WITH LIFE CYCLE ANALYSIS The 16th International Conference of Constructive Design and Technological Optimization in Machine Building Field OPROTEH 2021 ISSN 2457 – 3388
9. Raveica Ionel, Herghelegiu Eugen MODELLING AND MULTI-OBJECTIVE OPTIMIZATION OF SURFACE ROUGHNESS AND TAPER ANGLE IN ABRASIVE WATER JET MACHINING OF ALUMINUM ALLOY The 16th International Conference of Constructive Design and Technological Optimization in Machine Building Field OPROTEH 2021 ISSN 2457 – 3388
10. Raveica I , Raveica G Consideration on implementation process in educational activity of cloud based CAD aplications Study case The 17th International Conference of Constructive Design and Technological Optimization in Machine Building Field OPROTEH 2022
11. Raveica I , Raveica G Active Learning in Engineering Education. Experiences in Covid 19 PandemyThe 17th International Conference of Constructive Design and Technological Optimization in Machine Building Field OPROTEH 2022
12. Raveica G, Raveica I Beneficiile formularii si utilizarii obiectivelor de invatare in pregatirea studentilor. International Conferences Physical Education Sport and Health Pitesti 2022
13. Raveica I , Raveica G MODELLING AND MULTI-OBJECTIVE OPTIMIZATION OF SURFACE ROUGHNESS AND TAPER ANGLE IN ABRASIVE WATER JET MACHINING OF ALUMINUM ALLOY Oproteh 2021
14. Raveica I STUDY ON ENVIRONMENTAL ASSESSMENT OF RECYCLING IN ROMANIA ACCORDING WITH LIFE CYCLE ANALYSIS Oproteh 2021
15. Raveica G., Raveica C. Study regarding the role of occupational therapy in public health education program planning 8th World Conference on Learning, Teaching and Educational Leadership (WCLTA-2017) 26-28 October 2017 Universidade Aberta, Lisbon, Portugal www.wc-lta.org pag 24
16. Raveica G, Raveica C s.a Assistive technology aspects in Romanian schools as an intervention to promote the inclusive education for children with physical limitations 8th World Conference on Learning, Teaching and Educational Leadership (WCLTA-2017) 26-28 October 2017 Universidade Aberta, Lisbon, Portugal www.wc-lta.org pag 25

Contract cercetare

Contract nr.3/2021, S.C. GOSPOMAS S.A Studiu și cercetare privind optimizararea tehnologiei fabricației inelului ceramic pentru etanșări mecanice industriale și eficiența înlocuirii inelului metalic de etanșare cu acesta. 6000lei
POSDRU/86/1.2/S/63545 TEORO - Terapia Ocupaţională şi Ingineria aplicată în echipamente pentru reabilitare şi tehnologie asistivă Respoonsabil TIC 2010-2014 98000Euro

E. Brevete obţinute în întreaga activitate

1. DISPOZITIV DE RELIEFARE PROGRESIVĂ (11) 126752 A0 (51) B21D 37/00 (2006.01) (21) a 2011 00508 (22) 25.05.2011 (41)

Data: **Semnătura:**

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