

UMFST "G.E.Palade" din Târgu Mureș  
Facultatea de Inginerie și Tehnologia Informației  
Departamentul de Inginerie Industrială și Management  
Cadru didactic: **Șef lucr.dr.ing. Bogdan BUCUR**  
Concurs pentru ocuparea postului de CONFERENȚIAR, poziția 11

### LISTA DE LUCRĂRI PUBLICATE

Candidatul a obținut titlul academic de doctor în inginerie industrială (Diplomă seria H nr. 0011195, eliberată de Universitatea Tehnică din Cluj Napoca, în baza Ordinului de Ministru nr.6149 din 7 noiembrie 2012), calificativ "Foarte bine".  
Conducător științific: Prof.dr.ing. Vasile BOLOȘ.

**a) Titlul tezei de doctorat:**

Cercetări privind geometria și tehnologia de danturare a angrenajelor melcate frontale cu conicitate inversă

**b) Cărți de specialitate (editată în străinătate):**

1. **Bogdan Bucur**, Mircea Tero (2023), Grafică inginerescă cu AutoCAD, Ed. Întreprinderea Editorial-Poligrafică "Știința" din Chișinău, R. Moldova, ISBN 978-9975-85-378-1, 179 pagini.

**c) Cărți de specialitate edituri naționale (recunoscute CNCIS):**

1. **Bogdan Bucur** (2013), Infografică. Proiectarea plană în mediul AutoCAD, Ed. Universității "Petru Maior" din Târgu Mureș, ISBN 978-606-581-114-0, 164 pagini.
2. Mircea Tero, **Bogdan Bucur**, Gheorghe Bratu (2013), Geometrie descriptivă și desen tehnic, Ed. NapocStar, Cluj Napoca, România, ISBN 978-606-690-017-1, 130 pagini.
3. Gheorghe Bratu, **Bogdan Bucur**, Constantin Bucur (2013), Ingineria termofluidelor. Mecanica fluidelor și termotehnică, Ed. Universității "Petru Maior" din Târgu Mureș, ISBN 978-606-581-113-3, 330 pagini.
4. Gheorghe Bratu, **Bogdan Bucur** (2017), Mecanica fluidelor și echipamente hidraulice, Ed. Universității "Petru Maior" din Târgu Mureș, ISBN 978-606-581-139-3, 172 pagini.

**d) Articole publicate în extenso:**

**(1). Articole în reviste cotate ISI, cu factor de impact**

1. **BUCUR B.**, BAN ANDREEA., VLASE S., MODREA ARINA, Creativity and generation of ideas in the design of children's toys, ISI FI 2.835, revista Children Basel, 2023;

<https://doi.org/10.3390/children10010129>;

<https://www.mdpi.com/2227-9067/10/1/129>

2. **BUCUR B.**, BAN ANDREEA, VLASE S., MODREA ARINA, Aspects Regarding the Innovative Conceptual Design for Children's Recreational Areas, ISI FI 2.835, revista Children Basel, 2022;

<https://doi.org/10.3390/children9081240>;

<https://www.mdpi.com/2227-9067/9/8/1240>

**(2). Articole în reviste cotate Proceedings ISI fără factor de impact:**

1. BUCUR ANDREEA, **BUCUR B.**, Practical Aspects Regarding Obtaining a Green Energy Source Using the Pyrolysis Method of Biodegradable. In Proceedings of 13th the International Scientific Conference Inter-Ing 2019 "George Emil Palade" of UMFST of Tg. Mureș, Faculty of Engineering, 3-4 October 2019, Waste Procedia Manufacturing 46 (2020) 838–843, ISSN2351 – 9789;

<https://doi.org/10.1016/j.promfg.2020.04.013>

<https://www.sciencedirect.com/science/article/pii/S2351978920309975>

2. MORAR FLORICA, **BUCUR B.** Raising Awareness on Waste Generation and Collection, In: Proceedings of 10th the International Scientific Conference Inter-Ing 2016 "Petru Maior" University Faculty of Engineering, Tg. Mureș, 6-7 October 2016, ISSN 1877 – 7058, Romania, p.452-458;

<https://www.sciencedirect.com/journal/procedia-engineering/vol/181/suppl/C>

3. MORAR FLORICA, **BUCUR B.**, Stoica Anisoara Study on Procedures for Acceptance of Waste in Landfill, In: Proceedings of 9th the International Scientific Conference Inter-Ing 2015 "Petru Maior" University Faculty of Engineering, Tg. Mureș, 8-9 October 2015, Romania, p.425-430;

<https://www.sciencedirect.com/journal/procedia-technology/vol/22/suppl/C>

**(3). Articole în reviste indexate BDI:**

1. **BUCUR B.** CIURBA DAIANA, Concerning Aspects For Analysis and Ergonomic Design Looking at for The Medical Problems of the Violin Chin Rest Support, © The Author(s), under exclusive license to Springer Nature Switzerland AG 2023, L Moldovan and A. Gligor (Eds.): Inter-Eng 2022, LNNS 605, p. 1–18, 2023.;  
[https://doi.org/10.1007/978-3-031-22375-4\\_21](https://doi.org/10.1007/978-3-031-22375-4_21);  
<https://inter-eng.umfst.ro/2022/proceedings.html>
2. **BUCUR B.**, BIRIȘ TEODORA, Innovative conceptual design for patentability. Case study of the double compartment thermos container. „George Emil Palade” University of Medicine, Pharmacy, Science, and Technology of Târgu Mureș, University Press, Acta Marisiensis. Seria Technologica, ISSN 2668-4217, Romania 2021;  
<http://scientificbulletin.upm.ro/?pag=indexing>  
<http://scientificbulletin.upm.ro/papers/2021-1/AMSET-2021-0005.pdf>
3. BOGDAN MARIA, **BUCUR B.**, Aspects Regarding the Online Modular Education System Compared with the Classical Onsite System Acta Marisiensis. Seria Technologica Vol. 17 (XXXIV) no. 1, 2020 ISSN 2668-4217, ISSN-L 2020-0014 p.18-23.  
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4. **BUCUR B.**, BUCUR C., ANDRONIE GABRIELA, Peculiarities Regarding the Reconstruction of a Broken Grooved Shaft. In Proceedings of 14<sup>th</sup> the International Scientific Conference Inter-Ing 2020 "George Emil Palade" of UMFST of Tg. Mureș, Faculty of Engineering, 8-9 October 2020 , ISBN 978-3-0365-0716-3; ISBN 978-3-0365-0717-0 (PDF) ;  
<https://doi.org/10.3390/proceedings2020063065>  
<https://www.mdpi.com/2504-3900/63/1/65>
5. **BUCUR B.**, The Puzzle Game between Design, Science and Skills . Acta Marisiensis. Seria Technologica, vol. 16 (XXXIII), no. 2, 2019, "George Emil Palade" University of Medicine, Pharmacy, Science, and Technology of Târgu Mureș, Romania, ISSN 2668-4217, 2019, p.20-24.; DOI:10.2478/amset-2019-0012;  
<http://scientificbulletin.upm.ro/?pag=indexing>  
[http://scientificbulletin.upm.ro/papers/2019-2/4\\_Puzzlele%20game%20BB-decembrie%20engl%20final%20antet.pdf](http://scientificbulletin.upm.ro/papers/2019-2/4_Puzzlele%20game%20BB-decembrie%20engl%20final%20antet.pdf)
6. **BUCUR B.**, Concerning of Defects in Design and Manufacture of the Products. Case Study: Redesign of the Citrus Juicer. Acta Marisiensis. Seria Technologica, Volume 12 (XXIX), no.2,"Petru Maior" University of Târgu Mureș, Romania, ISSN 2668-4217, 2015, p.17-21;  
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7. BOLOȘ CODRUȚA, CIOTEA MAGDA, **BUCUR, B.**, BOLOȘ, V. Modeling the double worm-face gears. In: Proceedings The International Conference on Engineering

Graphics and Design ICEGD 2015, 11-13 June 2015, Brasov, Romania, ISSN 1843-3766, p.3-7;

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8. **BUCUR, B.** Conceptual design. A case study: sailing boat. In: Proceedings The International Conference on Engineering Graphics and Design ICEGD 2015, 11-13 June 2015, Brasov, Romania, ISSN 1843-3766, p. 21-24;

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9. BREZEANU LIGIA, **BUCUR B.**, Comparative study by FEM of stress and strain in the worm reverse tapered pinion for diferent materials. In: Scientific Bulletin of the "Petru Maior University of Tîrgu-Mureş, vol. 11 (XXVIII) no.1, 2014. ISSN-L 1841-9267, Romania, p.5-12;

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10. **BUCUR B.**, Concerning of defects in design and manufacture of the products.case study: redesign of the citrus juicer, In: Scientific Bulletin of the "Petru Maior" University of Tîrgu Mureş Vol. 12 (XXIX) no. 2, 2015 ISSN-L 1841-9267 (Print), ISSN 2285-438X (Online), ISSN 2286-3184, (CD-rom) p.17-21;

11. BREZEANU LIGIA, **Bucur, B.**, The studies of the stress and strains state of the worm face gear with reverse tapered pinion generated in operation, using fem method: part II – worm wheel made of cast iron. In: The 6th edition of the Interdisciplinarity in Engineering International Conference "Petru Maior" University of Tîrgu Mureş, 4-5 October 2012, ISSN 2285 – 0945 ISSN–L 2285 – 0945, Romania, p.117-122

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12. BREZEANU LIGIA, **Bucur, B.**, The studies of the stress and strains state of the worm face gear with reverse tapered pinion generated in operation, using fem method: part I – worm wheel made of bronze. In: The 6th edition of the Interdisciplinarity in Engineering International Conference "Petru Maior" University of Tîrgu Mureş, 4-5 October 2012, ISSN 2285 – 0945 ISSN–L 2285 – 0945, Romania, p.111-116

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13. **BUCUR B.**, BOLOŞ V., Comparative experimental study on noise and vibration level of gearbox with worm face-gear with reverse tapered pinion. In: Power Transmissions Procedeeng of the 4 International Conference, held at Sinaia, Romania, June 20-23 2012, ISBN 978-94-007-6557-3, p.231-239.

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14. **BUCUR B.**, BOLOŞ V., Experimental research on noise and vibration level of gerabox using worm face-gear with reverse tapered pinion. In: Proceedings of 5<sup>th</sup> the International Scientific Conference Inter-Ing 2011 "Petru Maior" University Faculty of Engineering, Tg. Mureş, 3-5 November 2011, p.170-173;

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15. **BUCUR B., MÁTÉ M.**, Theoretical peculiarities regarding the definition and representation of the rolling surfaces by a bevel worm gear with the crown gear of inverted conicity. In: Proceedings of 5<sup>th</sup> the International Scientific Conference Inter-Ing 2011 "Petru Maior" University Faculty of Engineering, Tg. Mureș, 3-5 November 2011, p.165-169 ;  
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16. BREZEANU LIGIA, **BUCUR B.**, FEM analysis of stress and strain state of a worm face-gear with reverse tapered pinion. In: Proceedings of 5<sup>th</sup> the International Scientific Conference Inter-Ing 2011 "Petru Maior" University Faculty of Engineering, Tg. Mureș, 3-5 November 2011, p.159-164 ;  
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17. **BUCUR B. BOLOȘ V.**, Experimental study of the thermal limit for the gearbox worm face-gear with reverse tapered pinion In : Anals of MTeM for 2011 & Proceedings of the 10<sup>th</sup> International Conference Modern Technologies in Manufacturing 6<sup>nd</sup>-8<sup>nd</sup> October, 2011, Cluj-Napoca, Romania; p.
18. **BUCUR, B., BOLOS V.**, Study of the Thermal Limit of the Gearbox Worm Face – Gear with Reverse Tapered Pinion – The Experimental Bases, Annals of MTeM for 2009 & Proceedings of the 9th International Conference Modern Technologies in Manufacturing MTeM 2009,.ISBN 973-7937-07-04, p.33-36;
19. BOLOS C., BOLOȘ V., **BUCUR B.**,The Spiroid Worm Gear with Reverse Tapered – Specific Elements Regarding Representation, Acta Technica Napocenses, Series Applied Mathematics and Mechanics 2009, 52, Vol. Ib, ISSN 1221-5872, p.137-140 ;
20. **BUCUR B.**, BOLOȘ CODRUȚA, Aspect concerning complex drawing abstracts Acta Technica Napocenses, Series Applied Mathematics and Mechanics 2009, 52, Vol. Ib, ISSN 1221-5872, p.265-268 ;
21. **BUCUR B.**, BOLOS, CODRUȚA, BALOGH TUNDE, Aspect concerning the use of recyclabe waste in designing industrial product. Acta Technica Napocenses, Series Applied Mathematics and Mechanics 2009, 52, Vol. Ib, ISSN 1221-5872, pag. 447-450 ;
22. BOLOȘ V., BOLOȘ CODRUȚA, **BUCUR B.**, CIOTEA MARGA, The hobbing technology of the spiroid wheels. mathematical model , Proceedings of 8th International Conference "Research and Development in Mechanical Industry" RaDMI 2008,14 - 17. September 2008, Užice, Serbia, 2008, ISBN 978-86-83803-24-8, p.120-125;  
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23. BOLOȘ V., BOLOȘ, C. și **BUCUR, B.** The mathematical and numerical model of spiroid gear with reverse tapered, The International Scientific Conference Inter-Ing 2007 "Petru Maior" University Faculty of Engineering, Tg. Mureș, 15-16 November 2007 ;

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**25. BOLOȘ CODRUȚA, BĂRSAN, L. și BUCUR B.** Aspects regarding the structure of graduation papers in industrial design. In: Procideeng of the International Conference on Engineering Graphics and Design - ICEGD 2007, Galati, 7 – 10 June 2007, p.137-140, ISBN 973-9087-83-3;

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**26. BUCUR B. și BOLOȘ CODRUȚA,** Computer aided reconstruction of damaged maps. In: Procideeng of the International Conference on Engineering Graphics and Design - ICEGD 2007, Galati, 7 – 10 June 2007, pag. 141-142, ISBN 973-9087-83-3;

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**27. BOLOȘ V., BOLOȘ CODRUȚA și BUCUR B.,** Gearbox with reversed tapered spiroid gearsets În: Proceedings The International Scientific Conference Inter-Ing 2005 "Petru Maior" University Faculty of Engineering, Tg. Mureș, 10 – 11November 2005/- ISBN 973-8084-82-,

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**28. BOLOȘ V., BOLOȘ CODRUȚA și BUCUR B.** The technological characteristic features concerninig processing of reversead tapered spiroid wheels. In : Anals of M Te M for 2005 & Proceedings of the 7<sup>th</sup> International Conference Modern Technologies in Manufacturing 6<sup>nd</sup>-8<sup>nd</sup> October, 2005, Cluj-Napoca, Romania. ISBN 973-9087-83-3, p.97-100;

**29. BOLOȘ V., BOLOȘ CODRUȚA și BUCUR B.,** Considerations concerning the manufacturing the spiroid hob with revers tapered. In:International Multidisciplinary Conference, 6th Edition, vol.1, May 27-28,2005, Baia Mare, România, ISBN 973-87237-1-X, p.59-64;

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**30. BOLOȘ CODRUȚA, BOLOȘ V., HAȚEGAN R.și BUCUR B.,** The spiroid worm gear – modeling and simulation numerical work gear. In: SCIENTIFIC BULLETIN , Serie C, Volume XVIII, THE INTERNATIONAL MEETING OF THE CARPATHIAN SPECIALISTS IN THE FIELD GEARS ,5 TH EDITION, MAY 21-24,2004 BAIA MARE, ISSN 1224-3264, p.45-48;

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**31. BOLOS V., BOLOS CODRUȚA și BUCUR B.,** Spiroid hob with reverse tapared. In: SCIENTIFIC BULLETIN , SerieC, Volume XVIII, THE INTERNATIONAL MEETING OF THE CARPATHIAN SPECIALISTS IN THE FIELD GEARS ,5 TH EDITION,MAY 21-24,2004 BAIA MARE ,ISSN 1224-3264, p.49-52;

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**(4). Articole în reviste neindexate, fără factor de impact**

1. GĂTINA V., **BUCUR B.**, "Reabilitarea centralelor termice în vederea autorizării funcționării cazanelor"; articol publicat în revista "Tehnica instalațiilor" nr. 3 (28)/2005, ISSN 1582-6244, p.14-18;

**(5). Articole în volumele manifestări științifice și conferințe neindexate**

1. **BUCUR B.**, Innovative aspects in concept design, „Perspectivele și Problemele Integrării în Spațiul European al Cercetării și Educației”, Volumul X, Partea 2. Cahul: Universitatea de Stat “Bogdan Petriceicu Hasdeu” , 2023 (in curs de apariție);  
<https://www.usch.md/conferinta-stiintifica-internationala-perspectivelor-si-problemele-integrarii-in-spatiul-european-al-cercetarii-si-educatiei-7/>
2. **BUCUR B.**, BOLOȘ V., Aspecte comparative cu privire la danturarea roților melcate frontale cu conicitate inversă executate din materiale diferite. Conferința Națională multidisciplinară “Profesorul Ion D. Lăzărescu, fondatorul școlii românești de teoria așchierii”, Cugir 2012, ISBN 978-973-126-528-5, p.52-55;
3. BOLOȘ V., BOLOȘ CODRUȚA și **BUCUR B.** Mathematical vectorial matrix model of the reverse tapered spiroid worm. In: Proceeding of the International Scientific Conference Prasic '06 "Transilvania" University Faculty of Engineering, Brasov, 9 – 10 November 2006, pag.45-50, ISBN (10) 973-635-825-9 (13) 978-973-825-8. p.45-50;  
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<https://www.dmg-lib.org/dmglib/main/portal.jsp?mainNaviState=browse.docum.viewer&phyPageNo=1&id=23297009>
4. BOLOȘ CODRUȚA și **BUCUR B.**, Aspects regarding package modeling using the Solid Edge program În: ICEGD Proceedings The International Scientific Conference on engineering graphics and design, Editura BREN - București, 2005 - ISBN 973-648, p.189-192;
5. BOLOȘ CODRUȚA, **BUCUR B.** și PETRA C., Data transfer from AutoCAD - ADOBE PHOTOSHOP. În volumul Conferinței științifice cu participare internațională “Inter-Ing 2003”, 6-7 noiembrie 2003, TG. MURES, ROMANIA ISBN 973-80-84-81-4, p.51-54 ;
6. BOLOȘ CODRUȚA, **BUCUR B.** și PETRA C., Gif Animator, Flash and 3dStudio Max - educational applications in technical drawing. În volumul Conferinței științifice cu participare internațională “Inter-Ing 2003”, 6-7 noiembrie 2003, TG. MMURES, ROMANIA, p.55-58;
7. BOLOȘ V., BOLOȘ CODRUȚA, ȘINCAN R. și **BUCUR B.**, The kinematics of the hobbing of the reversed tapered spiroid worm wheels. În volumul Conferinței științifice cu participare internațională “Inter-Ing 2003”, 6-7 noiembrie 2003, TG. MURES, ROMANIA, p.59-66;

8. BOLOȘ CODRUȚA, **BUCUR B** și KADOS SZ., Aspects regarding usage of programming aid Flash 5 to create teaching materials. In "The VIII th National Symposium of Descriptive Geometry , Technical Graphics and Design -2003",5-7 June 2003 BRASOV , ROMANIA , vol I, ISBN 973-635-195-7 , p.261-264.