

1.1 Cărți și capitole în cărți de specialitate

1. **Nicolae Florin COFARU, Ileana Ioana COFARU** *Cercetări privind programarea avansată a echipamentelor CNC*, Editura Universității "LUCIAN BLAGA" Sibiu, ISBN: 978-606-12-1807-3, 100 pg., 2020
2. **Nicolae Florin COFARU**, *CERCETĂRI PRIVIND PRELUCRAREA PE CENTRE DE PRELUCARE CNC UTILIZÂND SIEMENS-SHOPMILL*, Editura Universității "LUCIAN BLAGA" Sibiu, ISBN: 978-606-12-1600-0, 170 pg., 2018
3. **Nicolae Florin COFARU**, *Prelucrări pe MUCN*, Editura Universității "LUCIAN BLAGA" Sibiu, ISBN: 978-606-12-0707-7, 209 pg., 2014
4. **Nicolae Florin COFARU**, *Proiectarea asistată a tehnologiilor*, Editura Universității "LUCIAN BLAGA" Sibiu, ISBN (10) 973-739-273-6, (13) 978-973-739-273-2, 192 pg., 2006
5. **Nicolae Florin COFARU**, *Prelucrări pe MUCN*, Editura Universității "LUCIAN BLAGA" Sibiu, ISBN 973-651-480-3, 151 pg., 2002
6. Dan Maniu DUSE, **Nicolae Florin COFARU**, *Bazele Cercetării Experimentale*, Editura Universității "LUCIAN BLAGA" Sibiu, ISBN 973-651-271-1, 178 pg., 2001

1.2 Material didactic / Lucrări didactice

1.2.1 Monografii

1. Paul Dan Brîndașu, Dan. Cernușcă, **Nicolae Florin COFARU**, *Metode moderne în proiectarea sculelor așchietoare*, Editura Universității din Sibiu, , ISBN 937-95604-3-0, 140 pg., 1996
2. **Nicolae Florin COFARU**, *Modelarea proceselor de uzare abrazivă*, Editura Universității "LUCIAN BLAGA" Sibiu, ISBN 973-651-273-8, 182 pg., 2001
3. **Nicolae Florin COFARU**, Radu Breaz, *Programarea și exploatarea mașinilor de frezat cu comanda numerică*, Editura Universității "LUCIAN BLAGA" Sibiu, ISBN (10) 973-739-274-4, (13) 978-973-739-274-9, 140 pg., 2006

1.2.2 Îndrumare de laborator/aplicații;

1. **Nicolae Florin COFARU**, Dan Maniu DUSE, *Tehnologii de prelucrare pe MUCN. Aplicații*, Editura Universității "LUCIAN BLAGA" Sibiu, ISBN 973-651-272-X, 180 pg., 2001
2. **Nicolae Florin COFARU**, Dan Maniu DUSE, *PROGRAMAREA SI EXPLOATAREA SISTEMELOR CNC DE TIP REALMECA*, îndrumar în format electronic, 2018
3. *Tutorial pentru formarea prin e_learning și învățământ la distanță în domeniul programării și exploatarea MUCN – sistem funcțional realizat*, 90 pg, 2004.
4. **Nicolae Florin COFARU**, Dan Maniu DUSE, *Tehnologii de prelucrare pe MUCN. Aplicații*, Editura Universității "LUCIAN BLAGA" Sibiu, ISBN 973

1.2.3 Coordonare/ dezvoltare laborator/ centru cercetare

1. Laborator centru de formare in domeniul comenzilor numerice – COMPA
2. LABORATOR CAD CAM CAE si studii si cercetari doctorale-IM117B
3. LABORATOR PMUCN – SALA IM117A
4. STAND EXPERIMENTAL BIOMECHANICA GENUNCHIULUI
5. STAND PT STUDIUL UZARII ABRAZIVE PE DISTANTE LUNGI DE FRECARA
6. STAND DE STUDIU UZARII ABRAZIVE PRIN FOTOELASTICITATE
7. Laborator tehnologii de prelucrare pe MUCN

1.3 Coordonare de programe de studii, organizare si coordonare programe de formare continua si proiecte educative

Director master Domeniul Inginerie Industrială
Responsabil program Master STIF
Responsabil program Licența TCM

1.4 Dezvoltare de noi discipline

Prelucrari pe MUCN – TCM
Tehnologia constructiilor de masini 1 – TCM
Tehnologii de fabricatie 1, 2 - IEDM
Producerea si repararea echip de transport – ITT
PRODUCTICA – SIA
Tehnologii de fabricatie in mecatronica
Progrmarea si exploatarea avansata a MUCN
Metode si mijloace CAM

2.1 Articole in Reviste cotate ISI Thomson Reuters si in volume indexate ISI Proceedings **

1. Andrei Horia Brănescu, Nicolae Florin Cofaru, Radu Emanuil Petruse, Olivia Laura Petrașcu and Eugen Avrigean, Study regarding the usage of 3D printed specimens for validating bioengineering experimental researches, ACTA TEHNICA NAPOCENSIS, The 16th INTERNATIONAL CONFERENCE MODERN TECHNOLOGIES IN MANUFACTURING, [2025](#)
2. Kumar, A (Kumar, Anil) ; Maithani, R (Maithani, Rajesh) ; Sharma, S (Sharma, Sachin) ; Srivastav, A (Srivastav, Ayushman) ; Alam, T (Alam, Tabish) ; Siddiqui, MIH (Siddiqui, Md Irfanul Haque) ; Dobrota, D (Dobrota, Dan) [1] ; Cofaru, NF (Cofaru, Nicolae-Florin) ; Ashraf, I (Ashraf, Intesaaf), Impact of straight slot impingement jets on heat transfer enhancement of TiO₂/H₂O nanofluid flow in a square channel: CFD analysis (vol 15, 7728, [2025](#)), SCIENTIFIC REPORTS, Vol 15, Issue 1, DOI10.1038/s41598-025-98479-x

3. Brănescu, A. H., Pascu, A. M., Cofaru, N. F., & Petrașcu, O. L. (2025). Optimizing of the WEDM Technologies Used in Progressive Dies Manufacturing. In International Conference on Machine and Industrial Design in Mechanical Engineering (pp. 587-597). Cham: Springer Nature Switzerland.
4. Mirjana BOJANIĆ ŠEJAT, Nicolae Florin COFARU, Milan RACKOV, Aleksandar ŽIVKOVIĆ, Ivan KNEŽEVIĆ, Ilena Ioana COFARU, Dejan LUKIĆ, DETERMINATION OF CLEARANCE IMPACT ON VIBRATIONS OF RADIAL BALL BEARING THROUGH EXPERIMENTAL TESTING, ACTA TEHNICA NAPOCENSIS, Volume 68, Issue Special II, ISSN 1221-5873, 2025
5. Nenad PETROVIC, Nenad KOSTIC, Nenad MARJANOVIC, Ileana Ioana COFARU(ULBS), Vesna MARJANOVIC, Nicolae Florin COFARU(ULBS), CARDINALITY CONSTRAINT FOR TRUSS SIZING OPTIMIZATION OF PLANAR TRUSS STRUCTURES, ACTA TEHNICA NAPOCENSIS, Volume 68, Issue Special II, ISSN 1221-5872, 2025
6. Andrei-Horia BRĂNESCU (ULBS), Nicolae Florin COFARU (ULBS), Ileana Ioana COFARU (ULBS), Eugen AVRIGEAN (ULBS)-PARAMETRIZED CAD MODELLING OF THE PATHOLOGICAL HUMAN LOWER LIMB AFFECTED BY AXIAL DEVIATION IN STATIONARY POSITION AND DURING GAIT CYCLE-2024.ACTA TEHNICA NAPOCENSIS-WOS:001328942700042 ISSN 1221 – 5872
7. Nicolae Florin COFARU (ULBS), Ileana Ioana COFARU (ULBS), Andrei Horia BRĂNESCU (ULBS), Eugen AVRIGEAN (ULBS)-A CAD-CAE MODELLING OF THE BIOMECHANICS OF THE BIPLANAR MEDIAL OPENING WEDGE HIGH TIBIAL OSTEOTOMY -2024. ACTA TEHNICA NAPOCENSIS-WOS:001328942700043 ISSN 1221 – 5872
8. Andrei-Horia Brănescu (ULBS), Dan-Mihai Rusu (UTC-N), Nicolae-Florin Cofaru (ULBS), Mihai-Raul Petrașcu (ULBS)-Developing the 3D model of the human lower body using the Skeleton System method-2024.IFMBE Proceedings-WOS:001434998400045 ISSN 1680-0737
9. Florea, A., Cofaru, I., Patrausanu, A., Cofaru, N., & Fiore, U., Superposition of populations in multi-objective evolutionary optimization of car suspensions. Engineering applications of artificial intelligence, 126, 107026., ENGINEERING APPLICATIONS OF ARTIFICIAL INTELLIGENCE, ISSN_e 0952-1976, ISSN 1873-6769, WOS:001068086000001, 2023 FI 7,5
10. Cofaru, Ileana Ioana; Oleksik, Mihaela; Cofaru, Nicolae Florin; Brănescu, Andrei Horia; Hasegan, Adrian; Roman, Mihai Dan; Fleaca, Sorin Radu; Dobrota, Robert Daniel A Computer-Assisted Approach Regarding the Optimization of the Geometrical Planning of Medial Opening Wedge High Tibial Osteotomy Appl. Sci. 2022, 12(13), 6636; <https://doi.org/10.3390/app12136636>
11. Cofaru, N.F.; Oleksik, V.; Cofaru, I.I.; Simion, C.M.; Roman, M.D.; Lebada, I.C.; Fleaca, S.R. Geometrical Planning of the Medial Opening Wedge High Tibial Osteotomy—An Experimental Approach. Appl. Sci. 2022, 12, 2475. <https://doi.org/10.3390/app12052475>, FI 2.679.
12. NICOLAE FLORIN COFARU, ADRIAN PASCU, MIHAELA OLEKSIK, RADU PETRUSE Tensile Properties of 3D-printed Continuous-Fiber-Reinforced Plastics Mater. Plast. <https://doi.org/10.37358/Mat.Plast.1964>, 2020
13. Milan Rackov, Ivan Knežević, Srđan Nikačević, Dijana Čavić, Mirjana Bojanić Šejat, Marko Penčić, Maja Čavić, Siniša Kuzmanović and Nicolae Florin Cofaru, The Results of Changing the Current Solution Concept of Universal Motor Gear Reducers with Helical Gears, 10th International Conference on Manufacturing Science and Education – MSE 2021 Volume 343 (2021), MATEC. Web of Conferences 343, 01012 (2021), DOI: <https://doi.org/10.1051/mateconf/202134301012>
14. Nicolae Florin Cofaru, Andrei Horia Brănescu, Vesna Marjanovic, Mirko Blagojevic and Vlăduț Mihuț, Contributions regarding 3D modelling of biomechanics of the foot 04009, 10th

International Conference on Manufacturing Science and Education – MSE 2021 Volume 343 (2021), MATEC Web of Conferences 343, 04009 (2021), DOI: <https://doi.org/10.1051/mateconf/202134304009>

15. Sapon, M.; Oleksik, V.; Roman, M.; Cofaru, N.; Oleksik, M.; Mohor, C.; Boicean, A.; Fleaca, R., Biomechanical Study of the Osteoporotic Spine Fracture: Optical Approach, J. Pers. Med. **2021**, 11, 907. <https://doi.org/10.3390/jpm11090907>, FI 4,945.
16. NICOLAE FLORIN COFARU, ADRIAN PASCU, MIHAELA OLESIK, RADU PETRUSE, Mechanical characterization of 3D-printed reinforced composite materials, Mater. Plast. <https://doi.org/10.37358/Mat.Plast.1964>, 2021, FI 0,67.
17. Nicolae Florin **COFARU**, Mihai Dan Roman, Ileana Ioana Cofaru, Valentin Stefan Oleksik and Sorin Radu Fleaca, Medial Opening Wedge High Tibial Osteotomy in Knee Osteoarthritis—A Biomechanical Approach, "Applied Biosciences and Bioengineering". Applied Sciences (ISSN 2076-3417), Special Issue "Biomechanical and Biomedical Factors of Knee Osteoarthritis", **2020**, FI 2,746.
18. N F **COFARU** and A H Branesu, A review on biomechanics of the hallux valgus pathology and its surgical treatments, **2021**, IOP Conf. Ser.: Mater. Sci. Eng.1009 012015, <https://iopscience.iop.org/article/10.1088/1757-899X/1009/1/012015/pdf>
19. Nicolae Florin Cofaru, Ileana Ioana Cofaru, Radu Emanuil Petruse, Milan Rackov, Mirko Blagojevic and Nenad Marjanovic, Parametrised Design of a Cutting Device Used for High Tibial Osteotomy Modern Technologies in Manufacturing (MTeM 2019), MATEC Web of Conferences 299, 03011 (**2019**), <https://doi.org/10.1051/mateconf/201929903011>, <https://mtem.utcluj.ro/>
20. Ivan Knežević, Aleksandar Živković, Mirjana Bojanić Šejat, Milan Rackov, Milan Zeljković and Nicolae Florin Cofaru, Analysis the amount of lubrication and roughness of raceways on dynamic behavior on the ball bearing, 9th International Conference on Manufacturing Science and Education – MSE 2019 “Trends in New Industrial Revolution” Volume 290 (2019), MATEC Web of Conferences 290, 01005 (**2019**), <https://doi.org/10.1051/mateconf/201929001005> <http://site.conferences.ulbsibiu.ro/mse/>
21. Milan Rackov, Siniša Kuzmanović, Ivan Knežević, Maja Čavić, Marko Penčić, Dijana Čavić and Nicolae Florin Cofaru, Analysis of Possible Concept Solutions of Chain Drives, 9th International Conference on Manufacturing Science and Education – MSE 2019 “Trends in New Industrial Revolution” Volume 290 (**2019**), MATEC Web of Conferences 290, 01005 (2019), <https://doi.org/10.1051/mateconf/201929001005> <http://site.conferences.ulbsibiu.ro/mse/>
22. N F Cofaru, I I Cofaru, V Marjanović, N Marjanović, M Blagojević and R E Petrusei, CAD modeling of the closing HIGH TIBIAL OSTEOTOMY, **2019** IOP Conf. Ser.: Mater. Sci. Eng. 659 012033 IRMES 2019, Vol 659, 19 oct. 2019, <https://doi.org/10.1088/1757-899X/659/1/012033>
23. M V Drăgoi, D B Vrinceanu, V M Stamate and **Cofaru N**, *Vertical wind turbine with self-limitation system of speed*, IOP Conference Series: Materials Science and Engineering VOL 399.3rd China-Romania Science and Technology Seminar (CRSTS 2018), 399 (**2018**) 012015 doi:10.1088/1757-899X/393/1/012015, 2018
24. **Cofaru N.**, I I Cofaru, V Oleksik, A Pascu and M V Dragoi. *Modular device used in the surgery of the human tibia*, KOD2018 IOP Conference Series: Materials Science and Engineering, 393 (**2018**) 012130 doi:10.1088/1757-899X/393/1/012130, 6-8 iunie, 2018
25. Petre VASILUTA, **Nicolae Florin Cofaru**, Ileana Ioana Cofaru, Studies on predictive virtual models based on finite element analysis of the behaviour of geomembranes MTEM Cluj Napoca, 2017

MATEC Web of Conferences, 137, 06006 (2017), ISSN 1662-7482, [10.1051/mateconf/201713706006](https://doi.org/10.1051/mateconf/201713706006), MTEM Cluj Napoca, 2017

26. FLOREA Adrian and COFARU Nicolae Implementing Some Evolutionary Computing Methods for Determining the Optimal Parameters in the Turning Process, IMANE 2015
27. FLOREA Adrian and COFARU Nicolae Different Methods of Artificial Intelligence used for optimization the Turning Process, MTEM 2015
28. Bogdan Nicolae Ghitan , Nicolae Florin Cofaru Theoretical and Experimental Research on Mechanical Behavior of Layered Composites Laminates Applied Mechanics and Materials (Volume 657) Chapter 4: Advanced Materials ISSN: 1662-7482 P432-436 [10.4028/www.scientific.net/AMM.657.432](https://doi.org/10.4028/www.scientific.net/AMM.657.432), 2014
29. Iulia Huzu, Nicolae Florin Cofaru Parametric Modeling CAD-CAM of the Ankle and Pathological Related Situations, Applied Mechanics and Materials (Volume 657), Engineering Solutions and Technologies in Manufacturing ISSN: 1662-7482 P740-744 [10.4028/www.scientific.net/AMM.657.740](https://doi.org/10.4028/www.scientific.net/AMM.657.740), 2014.
30. Ileana Ioana Cofaru, Paul Dan Brindasu, **Nicolae Cofaru**, Computer Simulation Paradigm Regarding the Structure and Mechanical Characteristics of Human Long Bones, Advanced Materials Research, ISSN: 1022-6680, ISSN/ISO: Adv.Mater.Res, 2013
31. Ileana Ioana Cofaru, Paul Dan Brindasu, **Nicolae Cofaru**, Designing a Specialized Devices for Correction of the Axis Deviation at the Human Leg , Applied Mechanics and Materials, ISSN: 1660-9336, ISSN/ISO: Applied Mechanics and Materials, 2013
32. Mihaela Oleksik, **Nicolae Cofaru**, Valentin Oleksik, Experimental studies regarding mechanical behaviour of textile reinforcement's laminated composite, , Applied Mechanics and Materials, ISSN: 1660-9336, ISSN/ISO: Applied Mechanics and Materials, 2013
33. Sorin Borza, **Nicolae Cofaru**, *Visual Programming in Gas Engineering Education*, Balkan Region Conference on Engineering and Business Education & International Conference on Engineering and Business Education, covered by ISI Web of Knowledge, 15-17 October 2009 / Lucian Blaga University of Sibiu, Romania
34. Sorin Borza, Dan Paul Brandasu, **Nicolae Cofaru**, *New Tools for Engineering Education in 21st Century*, Balkan Region Conference on Engineering and Business Education & International Conference on Engineering and Business Education, covered by ISI Web of Knowledge, 15-17 October 2009 / Lucian Blaga University of Sibiu, Romania
35. **Cofaru Nicolae**, Oleksik Valentin, Pascu Adrian, *Finite element simulations regard different alternatives of the single point incremental forming process*. Proceedings of the 1st Wseas International Conference on Visualization, Imaging and Simulation (VIS'08), Bucharest, Romania, November 7-9, ISSN 1790-2769, ISBN 978-960-474-022-2, pg. 167-172, 2008.
36. Borza S., Simion C., **Cofaru N.**, *Automatic system for medical implants based on the grid networks*; 5th WSEAS International Conference on Applied Computer Science (ACOS'06), ISBN 960-8457-43-2, ISSN 1790-5109 și ISSN 1790-5117; pp.540-543; China, Hangzhou, 16-18 April 2006
37. Borza S., Simion C., **Cofaru N.**, *Software for CAD Modelling and Design of Monoaxis Shaft*; 8th WSEAS International Conference on Automatic, Modeling and Simulation (ACMOS'06), ISBN 960-8457-42-4, ISSN 1790-5117; pp. 70-74; Czech Republic, Prague, 12-14 March 2006.
38. **Cofaru, N.** Jichișan, D., M, *Dinamical study of abrasive wear processes with rhomboidal particle. III. The equivalent stress state study in rhomboidal abrasive particles*, ACTA TECHNICA NAPOCENSIS - Series: APPLIED MATHEMATICS, MECHANICS, and ENGINEERING, Cluj Napoca, ISSN 1221-5872, pp. 137-142, 1999 (<https://mjl.clarivate.com/search-results>)
39. **Cofaru, N.** Jichișan, D., M, *Dinamical study of abrasive wear processes with rhomboidal particle.II. The analysis of the reactions between abrasive particle and friction couple based on numerical*

methods, ACTA TECHNICA NAPOCENSIS - Series: APPLIED MATHEMATICS, MECHANICS, and ENGINEERING, Cluj Napoca, ISSN 1221-5872, pp. 131-136, [1999](#)

40. **Cofaru, N.** Jichișan, D., M., *Dinamical study of abrasive wear processes with rhomboidal particle. I. Dynamical study of particle movement*, ACTA TECHNICA NAPOCENSIS - Series: APPLIED MATHEMATICS, MECHANICS, and ENGINEERING, Cluj Napoca, ISSN 1221-5872, pp. 123-130, [1999](#)
41. **Cofaru, N.**, Jichișan, D., M., *A study regarding the generalised aproach of abrasive wear phenomenas*, ACTA TECHNICA NAPOCENSIS - Series: APPLIED MATHEMATICS, MECHANICS, and ENGINEERING, Cluj Napoca, ISSN 1221-5872, pp. 143-148, [1999](#)

2.2 Articole in reviste si volumele unor manifestări științifice indexate BDI

1. Andrei-Horia Brănescu (ULBS), Nicolae-Florin Cofaru (ULBS), Ileana-Ioana COFARU (ULBS), Adrian TRIF (UTC-N)-DEVELOPMENT OF AN AUTOMATED SYSTEM CAPABLE OF GENERATING PRE-AND POST-OPERATIVE 3D MODELS OF DIFFERENT HALLUX VALGUS CONDITIONS. -[2024](#).Academic Journal of Manufacturing Engineering- ISSN1583-7904
2. Nicolae-Florin Cofaru (ULBS), Ileana-Ioana COFARU (ULBS), Andrei-Horia Brănescu (ULBS), Adrian TRIF (UTC-N)-A COMPARATIVE STUDY OF HIGH TIBIAL OSTEOTOMY USING TAGUCHI METHOD-[2024](#).Academic Journal of Manufacturing Engineering- ISSN1583-7904
3. Branescu, A.H., Cofaru, I.I., Cofaru, V.G., Cofaru, N.F. A SPECIALIZED SOFTWARE FOR MANAGE THE HALLUX-VALGUS DEVIATIONS AND THE AFFERENT TREATMENTS Academic Journal of Manufacturing Engineering VOL. 20 , ISSUE 4 /[2022](#)
4. Inta, M., **Cofaru, N.** RESEARCH ON THE INFLUENCE OF CUTTING PARAMETERS ON THE ROUGHNESS SURFACE, ACADEMIC JOURNAL OF MANUFACTURING ENGINEERING, ISSN1583-7904, Online ISSN 2601-3045, VOL. 19 , ISSUE 2 /[2021](#).
5. **COFARU, N.** Brănescu, A., H CONTRIBUTIONS IN 3D GEOMETRIC MODELING OF THE HALLUX VALGUS AXIAL DEVIATION, ACADEMIC JOURNAL OF MANUFACTURING ENGINEERING, VOL.18 , ISSUE 4/[2020](#), ISSN 1583-7904.
6. Radu Emanuil Nicolae Florin Cofaru and Ileana Ioana Cofaru Customizable Patient-Specific Cutting Guide for High Tibial Osteotomy Acta Universitatis Cibiniensis. Technical Series Volume 71:doi 10.2478/aucts-2019-0010 Online ISSN:2668-6449, [2019](#), <https://content.sciendo.com/view/journals/aucts/71/1/article-p49.xml>
7. VASILUTA Petre , COFARU Ileana Ioana, **COFARU Nicolae**, Florin POPA Dragos Laurentiu, STUDIES OF THE SOLAR RADIATIONS' INFLUENCE ABOUT GEOMEMBRANES USED IN ECOLOGICAL LANDFILL, ACTA UIVERSITATIS CIBINIENSIS TECHNICAL SERIES, Vol. LXIX, DOI: 10.1515/aucts, 1583-7149, p.148-154, <https://www.degruyter.com/downloadpdf/j/aucts.2017.69.issue-1/aucts-2017-0019/aucts-2017-0019.pdf>, [2017](#)
8. Mihaela OLESIK, and **Nicolae COFARU** THE INFLUENCE OF THE STRESS CONCENTRATOR ON SILICONE COATED POLYAMIDE 6.6 FABRICS SUBJECTED TO UNIAXIAL TENSION TESTS, ACADEMIC JOURNAL OF MANUFACTURING ENGINEERING – AJME, ISSN 1583-7904, [2017](#)
9. Ileana Ioana COFARU, **Nicolae COFARU** COMPUTER ASSISTED APPROACH TO THE AXIAL DEVIATIONS OF THE HUMAN LOWER LIMB, ACADEMIC JOURNAL OF MANUFACTURING ENGINEERING – AJME, ISSN 1583-7904, [2017](#)
10. Adrian Florea, Ioana Cofaru, Lucian Roman and **Nicolae Cofaru**, Applying the Multi-objective Optimization Techniques in the Design of Suspension Systems, Journal of Digital Information

Management, December 2016 issue, no. 6, Vol.14, 0972-7272, <http://www.dirf.org/jdim/current-issue/>.

11. **N. Cofaru**, L. Roman, A. Pascu, V Oleksik, „ Experimental study regarding of bending behaviour of stabilizator link” Acta Universitatis Cibiniensis - Technical Series, ISSN 1583-7149, 2016.
12. **N. Cofaru**, L. Roman, V Oleksik, A. Pascu. Generalized modeling of the stabilizator link and static simulation using FEM „Acta Universitatis Cibiniensis - Technical Series, ISSN 1583-7149, 2016.
13. Petre Vasiluță, **Nicolae Cofaru** THE UNIAXIAL TENSILE TESTING FOR A HDPE GEOMEMBRANE WITHOUT CONCENTRATORS Academic Journal of Manufacturing Engineering, AJME, ISSN:1583-7904, nr.02/2016, Cluj.
14. Petre Vasiluță, **Nicolae Cofaru** THE UNIAXIAL TENSILE TESTING FOR A HDPE GEOMEMBRANE WITH CONCENTRATORS Academic Journal of Manufacturing Engineering, AJME, ISSN:1583-7904, nr.02/2016, Cluj.
15. Elena-Iulia HUZU , Nicolae COFARU CAD MODELING OF MEDICAL DEVICES USED IN ORTHOPEDICS ANNALS OF THE ORADEA UNIVERSITY. Fascicle of Management and Technological Engineering ISSN 1583 - 0691, CNCIS "Clasa B+" 2014
16. Elena Iulia Huzu , Cofaru Ileana Ioana, Nicolae Cofaru, Modeling and Simulation of the knee joint Surgery, ANNALS OF THE ORADEA UNIVERSITY, Fascicle of Management and Technological Engineering, ISSUE #1, JULY 2013, <http://www.imtuoradea.ro/auo.fmte>
17. Elena Iulia Huzu , Cofaru Ileana Ioana, Nicolae Cofaru, RESEARCH REGARDING CAD MODELING OF THE HUMAN LOWER LIMB BONES, Fascicle of Management and Technological Engineering, ISSUE #1, JULY 2013, <http://www.imtuoradea.ro/auo.fmte>
18. Mihaela OLEKSIK, Nicolae COFARU, Cristian DEAC, Valentin OLEKSIK, STUDY ON THE INFLUENCE OF THE TEMPERATURE AND STRAIN RATE ON THE BEHAVIOR OF POLYAMIDE 6.6 AT THE UNIAXIAL TENSILE TEST, Fascicle of Management and Technological Engineering, ISSUE #1, JULY 2013, <http://www.imtuoradea.ro/auo.fmte>
19. Cofaru Ileana Ioana, Husi Géza, Cofaru Nicolae Florin, Roman Mihai Dan, *THE EXPERIMENTAL STUDY OF THE HYBRID FIXATION IN ACL RECONSTRUCTION* , International Review of Applied Sciences and Engineering, Faculty of Engineering, University of Debrecen, ISSN 2062-0810, decembrie 2012 ..
20. Cofaru Ileana Ioana, Cofaru Nicolae Florin, Roman Mihai Dan, BIOMECHANICAL STUDDY REGARDING ACL RECONSTRUCTION WITH STG GRAFT, ANNALS OF THE ORADEA UNIVERSITY. Fascicle of Management and Technological Engineering, 2012, ISSN 1583 - 0691, CNCIS "Clasa B+"
21. Vasiluta Petre, Cofaru Florin Nicolae, Popa Dragoș Laurențiu, TOTAL SOLAR RADIATION AUTOLISP PROGRAM FOR LANDFILL GEOMEGBRANES FOLDING EVALUATION, COSME 2012, Braşov, Academic Journal of Manufacturing Engineering, Volume 8, Issue3/2012, ISSN: 1583-7904. <http://journals.indexcopernicus.com/passport.php?id=5174>
22. Vasiluta Petre, Cofaru Florin Nicolae, Popa Dragoș Laurențiu ECOLOGICAL LANDFILL FOLDED GEOMEMBRANES BEHAVIOR DURING VIRTUAL EXPERIMENTS , COSME 2012, Brasov Academic Journal of Manufacturing Engineering, Volume 8, Issue3/2012, ISSN: 1583-7904. <http://journals.indexcopernicus.com/passport.php?id=5174>
23. Vasiluta Petre, Cofaru Florin Nicolae, Popa Dragos-Laurentiu INTERACTIVE AUTOLISP SOFTWARE FOR AUTOCAD MADE TO CALCULATE THE TOTAL SOLAR RADIATION DURING

A DAY STARTING FROM LATITUDE AND LONGITUDE VALUES FOR A GIVEN POSITION, ADVANCED COMPOSITE MATERIALS ENGINEERING, COMAT 2012, BRASOV.

24. Vasiluta Petre, Cofaru Florin Nicolae, Popa Dragos-Laurentiu STATIC TESTING THREE-DIMENSIONAL MODELS USING FINITE ELEMENTS METHOD TO STUDY THE SYSTEMS OF ECOLOGICAL LANDFILL BASED ON HDPE GEO-MEMBRANES ADVANCED COMPOSITE MATERIALS ENGINEERING, COMAT 2012, BRASOV
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3.1 Proprietate intelectuală, brevete de invenție și inovație, etc.

3.2 Granturi/proiecte câștigate prin competiție

DIRECTOR

1 *Optimizări CAM la prelucrarea pe MUCN a materialelor plastice*, SC PHOENIX MECANO-PLAST SRL Sibiu, societate româno – germană, contract 142/2006 – director – 4.000 LEI.

2 *Studii teoretice și experimentale privind abrazia materialelor dentare*, SC DENTO IZA SRL Sibiu, contract 231/2005 – director. – 8000 LEI

3 *Insertie activă pe piața muncii prin FORMare profesională inovativă în domeniul INGINeriei - FORMING* – 2337324 - LEI

MEMBRU

Pn1. Contract obținut în cadrul Planului Național de Cercetare Dezvoltare și Inovare REȚEA NAȚIONALĂ DE CERCETARE ÎN DOMENIUL INGINERIEI INTEGRATE A PRODUSELOR ȘI PROCESELOR - INPRO UPB/CEEX 136966 lei

Pn2. Grant_nr . 88 GR/11.06.2008 DEZVOLTAREA UNUI SISTEM DE E-LEARNING ȘI CREATIVE DESIGN ÎN DOMENIUL SCULELOR AȘCHIETOARE ULBS 35000 lei

Pn3. *Dezvoltarea unui sistem de e-learning și e-creativ design în domeniul sculelor așchietoare*, CNCSIS /2006, cod CNCSIS 105, A, tema 1 – coautor.

Pn6. *Gestiunea asistată a sculelor*, Contract 33740/2003 tema 3 cod CNCSIS 366/2003 – coautor

Pn7. *Gestiunea asistată a sculelor*, Contract 33484/2002 cod CNCSIS 433/2002 – coautor

Pn8. *Gestiunea asistată a sculelor*, Contract 34695/2001 cod CNCSIS 11/2001– coautor

Pn9. *Strategii pentru eficientizarea activității de cercetare specifice sistemelor de producție integrată în domeniul tehnologiilor cu aplicații directe la învățământul tehnic și economic din România*. Contract 36678/2000 cod CNCSIS 873, 2000, MEN– coautor

P10. *Strategii tehnologice și manageriale adaptabile la cerințele învățământului tehnic românesc cu aplicații industriale privind îmbunătățirea funcțiilor obiectiv pentru modificarea transferului substanțial la prelucrările neconvenționale*. Contract 36678/2000 cod CNCSIS 872, 2000, MEN – coautor

Pn11. *Strategii tehnologice și manageriale adaptabile la cerințele învățământului tehnic românesc cu aplicații industriale privind îmbunătățirea funcțiilor obiectiv pentru modificarea transferului substanțial la prelucrările neconvenționale*. Contract 36809/99 cod CNCSIS 485, 1999, MEN – coautor

Pn12. *Strategii pentru eficientizarea activității de cercetare specifice sistemelor de producție integrată în domeniul tehnologiilor cu aplicații directe la învățământul tehnic și economic din România* Contract 36809/99 cod CNCSIS 483, 1999, MEN – coautor

Pn13. *Studiu experimental al uzării abrazive cu aplicații la scule*. Contract 36809/1, cod CNCSIS 482, 1999, MEN – coautor

Pn14. *Managementul fabricației*. Cod CNFIS 81, 1998, MEN – coautor

Pn15. *Studiul tensiunilor remanente induse în stratul superficial de sub suprafața prelucrată prin frezare*. Contract nr. 3072/ 1997, cod 1094, 1997, MEN– coautor

Pn16, Contribuții privind optimizarea procesului tehnologic de fabricație a implanturilor medicale pentru afecțiuni ale aparatului locomotor. Contract nr.5032/1996, cod 1076, 1996, MEN – coautor
Pn17, *Proiectarea sistemului informațional pentru optimizarea sculelor așchietoare moderne la grupa freze*. Contract nr.5032 / 1996, cod 1075, 1996, MEN – coautor
Pn18, *Model tehnico-economic privind reînnoirea tehnologiilor industriale zonale*. Contract 1301/B1 a 19.2., 1996, MCT – coautor
Pn19, *Contribuții privind optimizarea procesului tehnologic de fabricație a implanturilor medicale pentru afecțiuni ale aparatului locomotor*. Contract nr.4032/1995, cod 816, 1995, MEN – coautor
Pn20, *Informatizarea concepției și fabricației transmisiilor cardanice*. Grant nr. 1074/1995, 1995, MEN – coautor
Pn21, *Informatizarea concepției și fabricației transmisiilor cardanice*. Contract nr. 1107B/93, cod 4.1/3301, 1993, MEN – coautor

Pi2. EUROFORM – European Network for education and Training in the field of Microelectronic, Information Technologies and Related Technologies, Contract Leonardo F/99/1/062137/PI/III 3.a/FPC Program de tip Leonardo da Vinci între experți în ETI compusa din grupuri regionale din Franta, Spania, Irlanda, Germania, Austria, Italia, Polonia, Cipru si Romania, 2001, - coautor.

3.3 Membru in colectivele de redacție sau comitete științifice al revistelor si manifestărilor științifice, organizator de manifestări științifice / Recenzent pentru reviste si manifestări științifice naționale si internaționale indexate ISI

- **Chairman MSE 2019, 2021, 2025**
- **Associate Editor AJME - Academic Journal of Manufacturing Engineering**
- **Membru** în Comitetul Stiintific al conferințelor CONFERENG Conference Targu Jiu, MSE, ARTN, COSME Brasov, MTEM Cluj Napoca, KOD Novi Sad Serbia, IRMES Kraguevac Serbia.
- **Reviewer conferințe:** MSE Sibiu, ARTN Sibiu, COSME Brasov, MTEM Cluj Napoca, SINPRO Petroșani, KOD Novi Sad Serbia, IRMES Kraguevac Serbia, Novel Trends in Production Devices and Systems Trnava.
- **Recenzor reviste cotate ISI și BDI**
 - MATEC Web of Conferences, edp sciences Volume 121, MSE 2017
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 - MATEC Web of Conferences, edp sciences Volume 137, MTEM 2017
 - Novel Trends in Production Devices and Systems IV, 2017
 - The 15th National Symposium of Experimental Stress Analysis and Materials Testing, 2017
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Dentistry (WOS) 2021,22,23,24,25

3.4 Membru in academii, organizații, asociații profesionale de prestigiu, naționale și internaționale, apartenență la organizații din domeniul educației și cercetării

- Membru al unor societăți sau asociații științifice
- Asociația Generală a Inginerilor din România (AGIR)
- VDI Membership (Verein Deutscher Ingenieure);
- Asociația Română de Tehnologii Neconvenționale din România (ARTN)
- Asociația Universitară a Inginerilor din fabricație
- Asociația Română de Tensometrie (ARTENS)
- Asociația Română de Mecanica Ruperii