

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 PRELUCRARE 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 in format electronic, 2018
3. **Tutorial pentru formarea prin e_learning și învățământ la distanță în domeniul programării și exploatării MUCN – sistem funcțional realizat**, 90 pg, 2004.

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

Director master Domeniul Inginerie Industrială
Responsabil program Master STIF

1.4 Dezvoltare de noi discipline

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

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

1. 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.
2. 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>
3. 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>
4. 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.
5. NICOLAE FLORIN COFARU, ADRIAN PASCU, MIHAELA OLEKSIK, RADU PETRUSE, Mechanical characterization of 3D-printed reinforced composite materials, *Mater. Plast.* <https://doi.org/10.37358/Mat.Plast.1964>, 2021, FI 0,67.
6. 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.
7. N F **COFARU** and A H Branescu, 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>
8. 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/>
9. 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/>
 10. 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/>
 11. N F Cofaru, I I Cofaru, V Marjanović, N Marjanović, M Blagojević and R E Petrusci, 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>
 12. 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
 13. 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/399/1/012015, 2018
 14. **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
 15. 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
 16. 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.
 17. 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
 18. 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
 19. **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.

20. 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
21. 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
22. 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
23. 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
24. 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
25. FLOREA Adrian and COFARU Nicolae Implementing Some Evolutionary Computing Methods for Determining the Optimal Parameters in the Turning Process,IMANE 2015
26. FLOREA Adrian and COFARU Nicolae Different Methods of Artificial Intelligence used for optimization the Turning Process, MTEM 2015
27. **Cofaru, N.** Jichişan, 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>)
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2.2 Articole in reviste si volumele unor manifestări ştiinţifice indexate BDI

1. 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.

2. **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.
3. 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>
4. 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
5. 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
6. 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
7. 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/>.
8. **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.
9. **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.
10. Petre Vasiliuță, **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.
11. Petre Vasiliuță, **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.
12. 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>
13. 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>
14. Mihaela OLESIK, Nicolae COFARU, Cristian DEAC, Valentin OLESIK, 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>
15. 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 ..

16. 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, CNCISIS "Clasa B+"
17. Vasiluta Petre, Cofaru Florin Nicolae, Popa Dragos-Laurentiu, TOTAL SOLAR RADIATION AUTOLISP PROGRAM FOR LANDFILL GEOMEMBRANES FOLDING EVALUATION, COSME 2012, Brasov, Academic Journal of Manufacturing Engineering, Volume 8, Issue3/2012, ISSN: 1583-7904. <http://journals.indexcopernicus.com/passport.php?id=5174>
18. Vasiluta Petre, Cofaru Florin Nicolae, Popa Dragos-Laurentiu 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>
19. 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.
20. 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
21. Vasiluta Petre, Cofaru Florin Nicolae, Popa Dragos-Laurentiu MATHEMATICAL MODEL FOR THE TOTAL SOLAR RADIATION DETERMINATION AT THE SOIL LEVEL ADVANCED COMPOSITE MATERIALS ENGINEERING, COMAT 2012, BRASOV
22. M. Roman, Fleaca R., **Cofaru N.**, Oleksik V., Pascu A., Deac C. "Three different tibial fixation systems in ACL reconstruction with STG graft – biomechanical study", The European Journal of Trauma and Emergency Surgery, European Society of Trauma and Emergency Surgery ESTES, April 2011. Springer-Verlag, ISSN 1863-9933 (Print) 1863-9941 (Online).
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24. Ileana Ioana COFARU, M. OLEKSIK, **Nicolae Cofaru**, ROMAN M., FLEACA R, Experimental Stand Used For Studies of the knee’s Articulation Pathology, Academic Journal of Manufacturing Engineering, Volume 8, Issue3/2010, ISSN: 1583-7904. <http://journals.indexcopernicus.com/passport.php?id=5174>, http://www.cncsis.ro/userfiles/file/CENAPOSS/Bplus_2011.pdf
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26. ROMAN M., FLEACA R., **COFARU N.**, OLEKSIK V., PASCU A., DEAC C., BAIER I., ROMAN CRISTINA Partial lesions of the anterior cruciate ligament. 14th ESSKA Congres, June 9-12, 2010, Oslo, Abstract Published on Knee Surgery Sports Traumatology Arthroscopy, Springer-Verlag Berlin Heidelberg 2010, Vol. 18, Supplement 1, June 2010, ISSN 0942-2056.

27. Roman M., **Cofaru N.**, Oleksik V., Pascu A., Deac C., Baier I., Fixarea tibială în ligamentoplastia LIA cu tendoane semitendinos și gracilis (STG) – studiu biomecanic., Revista de Ortopedie și Traumatologie SOROT, ISSN 148-150, vol. 19, nr. 3/2009
28. **Cofaru Nicolae**, Pascu Adrian, Oleksik Valentin *Finite element analysis of static, vibration and fatigue behavior of the eccentric shaft component of a moto-mower B62..* Proceedings of the 17th International Conference on Manufacturing Systems – ICMaS, Bucharest, 13-14 November, 2008, Published by Editura Academiei, Revue roumaine des sciences techniques, Serie: Mecanique appliquee/Romanian Journal of Technical Sciences – Applied Mechanics, Editura Academiei Române, București, indexată în baza de date internațională INSPEC, ISSN 1842-3183, p. 339-342, 2008,
29. Brindasu Paul Dan, Beju Livia Dana, **Cofaru Nicolae** *Generalized aproach to the design of boring heads*, Proceedings of the 16th International Conference on Manufacturing Systems – ICMaS Published by Editura Academiei Române, ISSN 1842-3183, Volume No. 2, 2007, “Politehnica” University of Bucharest, Machine and Manufacturing Systems Department, Bucharest, Romania, 22 November, 2007, Revue roumaine des sciences techniques, Serie: Mecanique appliquee/Romanian Journal of Technical Sciences – Applied Mechanics, Editura Academiei Române, București, indexată în baza de date internațională INSPEC, ISSN 0035-4074, ISBN 973-27-1102-7, pp. 033-036
30. **Nicolae COFARU**, Sorin BORZA, Rotaru Ionela *Computer aided design of shafts using concurrent engineering principles*, ANNALS OF THE ORADEA UNIVERSITY. Fascicle of Management and Technological Engineering, VOLUME VIII (XVIII), 2009, ISSN 1583 - 0691, CNCSIS "Clasa B+", pp1023-1028
31. **Nicolae COFARU**, Sorin BORZA, Rotaru Ionela computer aided technological design of manufacturing processes using CNC lathes, ANNALS OF THE ORADEA UNIVERSITY. Fascicle of Management and Technological Engineering, VOLUME VIII (XVIII), 2009, ISSN 1583 - 0691, CNCSIS "Clasa B+", 1029-1034
32. **Nicolae COFARU**, Sorin BORZA *The design and development of an eresearch centre for mechanical engineering*; Annals of the Oradea University. Fascicle of Management and Technological Engineering, Vol.VI(XVI), ISSN 1583-0691, CNCSIS categoria B+; Editura Universității din Oradea, 8 pg.1801-1808; 2008
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35. Borza S., Simion C., **Cofaru N.**, *Integrated System for CAD Modelling and the Automatically Determining of the Machining Allowance for the Monoaxis Shafts*; WSEAS Transactions (Journal) on Circuits and Systems, Issue 3, Volume 5, ISSN 1109-2734, cotată ISI și indexată în bazele de date internaționale INSPEC, BRITISH LIBRARY, SWETS, Australian DEST database, MathSciNet, Zentralblatt MATH; pp. 411-417; March 2006.
36. **Cofaru Nicolae**, Brindasu Paul Dan, Beju Livia Dana, *CAD-CAM system for the constructive and tehnological design of the monoaxis shafts*, Proceedings of the International Conference on Manufacturing Systems ICMaS 2004, București, Revue roumaine des sciences techniques, Serie:

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40. 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, CNCISIS "Clasa B+" 2014

3.3 Articole in extenso in Reviste/Proceedings naționale/internaționale neindexate

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2. Cofaru Ileana Ioana, **Cofaru Nicolae Florin**, Roman Mihai Dan, Fleacă Radu, The comparative experimental study of the graft fixation in acl reconstruction, INTERNATIONAL CONFERENCE ON MANUFACTURING SCIENCE AND EDUCATION- MSE 2011- SIBIU- ROMANIA
3. Ionela Rotaru, **Nicolae Cofaru**, Lucian Lobonț, *THE EVOLUTION OF THE PARTNERSHIP UNIVERSITY – COMPANIES* MSE 2009 Conference Proceedings 4th INTERNATIONAL CONFERENCE ON MANUFACTURING SCIENCE AND EDUCATION - MSE 2009 - TRENDS IN ENGINEERING AND ACADEMIC EDUCATION
4. Brindasu Paul Dan, **Cofaru Nicolae**, Beju Livia, Liliana Popescu , *Contribution regarding the design of new boring and chamfering heads*, Annals of MTEM FOR 2009 & PROCEEDINGS of the 9th INTERNATIONAL CONFERENCE MODERN TEHNOLOGIES, Cluj Napoca, ISBN 973-7937-07-04, pp. 29-33, 2-4 octombrie, 2009.
5. Brindasu Paul Dan, **Cofaru Nicolae**, Beju Livia, Liliana Popescu , *Contribution regarding the design of new boring and chamfering heads*, Annals of MTEM FOR 2009 & PROCEEDINGS of the 9th INTERNATIONAL CONFERENCE MODERN TEHNOLOGIES, Cluj Napoca, ISBN 973-7937-07-04, pp. 29-33, 2-4 octombrie, 2009.
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12. **Nicolae COFARU**, Sorin BORZA, The abrazive wear of compozite materials used in stomatology; Annals of the Oradea University. Fascicle of Management and Technological Engineering, Vol., ISSN 1583-0691, CNCSIS categoria B, cod CNCSIS 564; Editura Universității din Oradea, 8 pg.221; 2006.
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16. **Cofaru, N.,F.** Avrigean, E., *Uzarea abrazivă prin microașchiere. Model teoretic și experimental*, Analele Universitatii din Oradea, fascicola Mecanica, ISSN 1222-5541 Oradea, pp 27-32, 31 mai – 2 iunie, 2001,
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20. Brindasu Paul Dan, Beju Livia Dana, **Cofaru Nicolae**, *Contribution to the design of small diameter ball nose endmills*, PROCEEDINGS of the INTERNATIONAL CONFERENCE on manufacturing science

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21. Badescu, M., **Cofaru, N., F.**, Muntean Achim, *Elements of Die's Virtual Assembling*, 7th International Research/Expert Conference „Trends in the Development of Machinery and Associated Technology” TMT 2003. Lloret de Mar, Barcelona, Spain, CD, 2003.
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33. Avrigean, E., **Cofaru, N., F.**, *Determinarea tensiunilor și deformațiilor din componența transmisiei cardanice - furcă cu gât*. Al VII lea Simpozion Național de utilaje pentru construcții, SINUC 2001, ISBN 973-8132-14-2, București, pp. 21-26, 2001
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3.4 Proprietate intelectuală, brevete de invenție și inovație, etc.

3.5 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 Inserție 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.

2.6 Coordonare/ dezvoltare laborator/ centru cercetare

1. LABORATOR CENTRU DE FORMARE IN DOMENIUL COMENZILOR NUMERICE – COMPA
2. LABORATOR CAD CAM CAE – SALA IM117C
3. LABORATOR PMUCN – SALA IM117

3.2 Prezentări invitate in plenul unor manifestări științifice naționale si internaționale și Profesor invitat (exclusiv ERASMUS)

Profesor invitat NOVI SAD – 2014, 2015

TRNAVA – 2015, 2017,2018, 2019

KRAGUEVAC - 2018

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**
- **Membru** în Comitetul Științific 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
 - IPC2017 - 3rd International Conference for Doctoral Students – 2017
 - 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
 - The 23rd National Symposium of Fracture Mechanics A.R.M.R., 2017
 - Novel Trends in Production Devices and Systems V, 2018
 - IOP Conference Series: Materials Science and Engineering, 393 (2018)
 - Acta Universitatis Cibiniensis Technical Series, Volume: LXX
 - Novel Trends in Production Devices and Systems VI, 2019
 - IOP Conf. Ser.: Mater. Sci. Eng. 659 012033, IRMES 2019, Vol 659, 19 oct. 2019
 - MATEC Web of Conferences, Volume 290 (2019)
 - MATEC Web of Conferences, edp sciences Volume 299, MTEM 2019
 - Additive Manufacturing Journal ADDMA, <https://www.journals.elsevier.com/additive-manufacturing>, 2019
 - Biotechnology & Biotechnological Equipment, <https://www.scijournal.org/impact-factor-of-biotechnol-biotec-eq.shtml>
 - IOP Conference Series: Materials Science and Engineering, VOL. 1009, 2021.
 - Applied Sciences (WOS) 2021,22
 - Coatings (WOS) 2021
 - International Journal of Environmental Research and Public Health, (WOS) 2021
 - Children (WOS) 2021,22
 - Micromachiones (WOS) 2021
 - Dentistry (WOS) 2021

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

3.6.2

- 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

