

LISTA DE LUCRĂRI
a cadrului didactic IORDACHE DANIELA MONICA

A. Teza de doctorat

Contribuții cu privire la simularea proceselor de deformare plastica la rece a tablelor, Teză de doctorat în cotutelă Universitatea din Pitești și Universitatea Paul Verlaine din Metz susținută în septembrie 2007, în domeniul Inginerie Industrială, respectiv, Mecanique , Inginerie industrială, 2007

B. Cărți și capitole în cărți publicate în perioada 2000 - 2019

B2. Cărți și capitole în cărți de specialitate naționale ca autor (cu ISBN intern)

1. Nițu E.L., Anghel D.C., Dobrescu I., Iordache M., Iacomî D., Rizea A., Vasile Gh., *Procese de fabricație specifice industriei de automobile*, Editura Universității din Pitești, 522 pagini, e-ISBN 978-606-560-329-5., 2013,

2. Iordache M., Costea A., Babă Al., *Metode de calcul și modele matematice pentru optimizarea proiectării dispozitivelor*, Editura Universității din Pitești, 260 pagini, ISBN 978-606-560-477-3, 2016,

B5. Manuale didactice, suport de curs

1. Iordache M., Ungureanu I., *Dispozitive tehnologice*, Editura Universității din Pitești, 2010, ISBN 978-606-560-139-0, 223 pag, 2010

2. Nitu E., Iacomî D., Iordache M., *Tehnologia fabricării produselor 1*, Pitesti, 254 pag., 2012

3. Iordache Monica, Badulescu Claudiu, *Utilizarea MEF la proiectarea produselor-Suport de curs*, Editura Universității din Pitești, e-ISBN 978-606-560-585-5, 86 pag, 2018

4. Iordache Monica, Iacomî Doina, *Scule așchietoare – suport de curs*, Editura Universității din Pitești, e-ISBN 978-606-560-582-4, 141 pag, 2018

5. Dobrescu Ion, Iordache Monica, *Tehnologii și prelucrări prin deformare la rece - Îndrumar de proiectare*, Editura Universității din Pitești, ISBN 978-606-560-579-4, 134 pag, 2018

B6. Îndrumare de laborator, culegere de probleme

1. Ungureanu I., Iordache M., *Dispozitive tehnologice 1*, Îndrumar de laborator. Editura Universității din Pitești, 50 pag, 2002

2. Ungureanu I., Iordache M., Ungureanu B., *Dispozitive tehnologice 2*, Îndrumar de laborator, Editura Universității din Pitești, 50 pag., 2003

3. Banu Il., Iordache M., Dobrescu I., *Tehnologia materialelor 2*, Îndrumar de laborator, Editura Universității din Pitești, 74 pag, 2004

4. Dobrescu I., Iordache M., *Prelucrări prin deformare la rece. Tehnologii de deformare la rece*, Îndrumar de laborator, Editura Universității din Pitești, 66 pag., 2004

5. Babă, Alexandru, Iordache Monica, *Constructia dispozitivelor modulare*, Lucrari de laborator, Editura Larisa, Câmpulung Muscel, 50 pag, 2014

6. Plăiașu G., Iordache M., Anghel D., Banu Il., Dobrescu R., *Tehnologia materialelor.*, Îndrumar de laborator, Editura Universității din Pitești, ISBN 978-606-560-476-6, 2016, 157 pag, 2016

7. Iordache M. Ungureanu I., *Dispozitive tehnologice*, . Îndrumar de laborator, Editura Universității din Pitești, 100 pag., 2016

8. Dobrescu Ion, Iordache Monica, Tudor Madalin, *Tehnologii și Prelucrări prin Deformare la Rece*, Îndrumar de laborator, Editura Universității din Pitești, ISBN 978-606-560-579-4, 91 pag, 2018

C. Lucrări (articole) ISI / BDI publicate în perioada 2000 - 2019

C1. Articole în reviste cotate ISI Thomson Reuters

1. E. Nițu, M. Iordache, L. Marinței, I. Charpentier, G. Le Coz, G. Ferron, I. Ungureanu, *FE-modeling of cold rolling by in-feed method of circular grooves*, Strojniški vestnik - Journal of Mechanical Engineering Volume, vol.57, nr. 9, 2011, pag. 667-673 (DOI:10.5545/sv-jme.2010.244; FI=0.466), 2011,
2. E. Nițu, St. Tabacu, M. Iordache, D. Iacomi, *Finite element analysis and experimental validation of the wedge rolling process*, Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 227(9), 1325–1339, ISSN 0954-4054; FI=0.77, WOS: 000329526700008, 2013,
3. Daniela-Monica Iordache, Marian Cătălin Ducu, Eduard-Laurentiu Nitu, Doina Iacomi, Adriana-Gabriela Plăiașu, Maria-Minodora Pasare, *Microstructure and Properties of Copper and 5754 Aluminum Alloy Joints by Friction Stir Welding*, Revista de chimie, nr. 3, 2017, pag 459-463, ISSN: 0034-7752, FI 1,412, 2017
4. Daniela-Monica Iordache, Eduard-Laurentiu Nitu, Adriana-Gabriela Plăiașu, Lia Nicoleta Boțilă, Marian Cătălin Ducu, Maria-Minodora Pasare, *Analysis of microstructure and mechanical properties of FSW overlay joints for dissimilar materials*, Revista de chimie, nr. 8, 2017, pag 1811-1815 , FI 1,412, 2017
5. Plaiasu Adriana-Gabriela, Iordache Daniela Monica, *MORPHOLOGICAL CHARACTERIZATION OF OXIDE NANOPOWDERS*, Rev. Roum. Chim., 2017, 62(10), 749-754, ISSN 0035-3930, 2017,

C2. Articole în volume indexate ISI Proceedings

1. Iordache M., *Finite element analysis of the geometry of the tools used for the cup drawing process*, Modern Technologies, Quality and Innovation - New face of TMCR, 21-23th May 2009, Iași, ISSN 2066-3919, pag.339-342, 2009
2. Iordache M., *Experimental investigations and finite element simulation of the Marciniak punch test*., Modern Technologies, Quality and Innovation - New face of TMCR, 21-23th May 2009, Iași, ISSN 2066-3919, pag.343-346, 2009,
3. L. Marinței, M. Iordache, E. Nițu, I. Ungureanu, G. Boicea., *Theoretical and experimental studies for the behavior determination of some steels at the cold plastic deformation*, ModTech International Conference, Slănic Moldova, 20-22th May 2010, pp. 367-370, 2010, (TC___DAT, TC___DAT)
4. G. Boicea, I. Ungureanu, M. Iordache, E. Nițu, D. Iacomi, M. Tudor, *Experimental research on the quality of profiles obtained by form tapping*, Proceedings of the 16th International Conference Modtech, New face of T.M.C.R., 2012, Sinaia, Vol. II, ISSN:2069-6736, pp.133-136, 2012, (WOS:000392261800034), 2012, (TC_7_2012_DFMI, TC_7_2012_DFMI)
5. M. Tudor, I. Ungureanu, D. Iacomi, M. Iordache, E. Nițu, Șt. Tabacu, *Experimental research on the quality of profiles obtained by rolling with wedge tools*, Proceedings of the 16th International Conference Modtech, New face of T.M.C.R., 2012, Sinaia, Vol. II, ISSN:2069-6736, pp.977-980, 2012 (WOS:000392261800245), 2012, (TC_7_2012_DFMI, TC_7_2012_DFMI)
6. M. Iordache, E. Nițu, D. Iacomi, I. Ungureanu, G. Ferron, *FE-modelling of radial cold rolling of the circular trapezoidal grooves*, Proceedings of the 16th International Conference Modtech, New face of T.M.C.R., Vol. II, ISSN: 2069-6736, pp.481-485, 2012, (WOS:000392261800121), 2012, (TC_7_2012_DFMI, TC_7_2012_DFMI)
7. E. Nițu, M. Iordache, I. Ungureanu, D. Iacomi, G. Boicea, *Study of the experimental characterization of the deformed layer by radial cold rolling profiles*, Proceedings of the 16th International Conference Modtech, New face of T.M.C.R., Vol. II, ISSN: 2069-6736, pp.677-680, 2012, Sinaia (WOS:000392261800170), 2012, (TC_7_2012_DFMI, TC_7_2012_DFMI)
8. Babă Al., Iordache M., Nițu E., Costea A., Iacomi D., Tonoiu S., *The Automatic Configuration Method of Modular Structures Composing Multi-axis Heads*, Applied Mechanics and Materials Vol. 371 (2013) pp 426-430, doi: 10.4028/ www.scientific.net/AMM.371.426/, WOS: 000334556900083, , 2013, (TC_7_2013_DFMI, TC_7_2013_DFMI)
9. Nițu E., Babă Al., Iordache M., Costea A., Iacomi D., *Mathematical Model and Algorithm to Optimize the Construction of Adjustable Multi-axis Heads*, Applied Mechanics and Materials Vol. 371 (2013) pp 617-621, doi: 10.4028/ www.scientific.net/AMM.371.617., 2013, (TC_8_2013_DFMI, TC_8_2013_DFMI)
10. D. Iacomi, M. Iordache, E. Nițu, Șt. Tabacu., *Influence Of Tool - Semi-Product Friction On The Force Evolution At The Simulation Of The Deformation Process With Flat Wedge Tools*, ModTech, 27-29 iunie 2013, Advanced Materials Research Vol. 837 (2014) pp 93-98 doi:10.4028/www.scientific.net/AMR.837.93,(WOS: 000337000500018), 2014, (TC_9_2014_DFMI, TC_9_2014_DFMI)

11. M. Iordache, E. Nițu, D. Iacomi., *Determination of constitutive equation at the deformation of materials using the compression test*, ModTech, 27-29 iunie 2013, Advanced Materials Research Vol. 837 (2014) pp 110-115 doi:10.4028/www.scientific.net/AMR.837.110/(WOS: 000337000500021), 2014, (TC_9_2014_DFMI, TC_9_2014_DFMI)
12. M. Iordache, C. Badulescu, D. Iacomi, E. Nitu, C. Ciuca, *Numerical Simulation of the Friction Stir Welding Process Using Coupled Eulerian Lagrangian Method*, ModTech International Conference - Modern Technologies in Industrial Engineering IV, June 15-18, 2016, Iasi, Romania, IOP Conf. Series: Materials Science and Engineering 145 (2016) 022017 (doi:10.1088/1757-899X/145/2/022017), 2016, (TC_2_2016_DFMI, TC_2_2016_DFMI)
13. Nitu E., Costea A., Iordache M, Rizea A, Baba Al., *Optimizing the construction of devices to control inaccessible surfaces - case study*, 11th International Congress of Automotive and Transport Engineering - Mobility Engineering and Environment (CAR), Pitesti, NOV 08-10, Volume: 252, 2017, ISSN: 1757-8981, DOI: 10.1088/1757-899X/252/1/012047, 2017, (TC_12_2017_DFMI, TC_8_2017_DFMI, TC_12_2017_DFMI, TC_8_2017_DFMI)
14. Iordache M., Costea A., Nitu E., Rizea A., Baba Al., *Method of Optimizing the Construction of Machining, Assembly and Control Devices*, 11th International Congress of Automotive and Transport Engineering - Mobility Engineering and Environment (CAR), Pitesti, NOV 08-10, Volume: 252, 2017, ISSN: 1757-8981, DOI: 10.1088/1757-899X/252/1/012039, 2017, (TC_8_2017_DFMI, TC_12_2017_DFMI, TC_8_2017_DFMI, TC_12_2017_DFMI)
15. Constantin Adrian, Bosneag Ana, Nitu Eduard, Iordache Monica, *Experimental investigations of tungsten inert gas assisted friction stir welding of pure copper plates*, 11th International Congress of Automotive and Transport Engineering - Mobility Engineering and Environment (CAR), Pitesti, NOV 08-10, Volume: 252, 2017, DOI: 10.1088/1757-899X/252/1/012038, 2017, (TC_5_2017_DFMI, TC_5_2017_DFMI)
16. Bosneag Ana, Constantin Adrian, Nitu Eduard, Iordache Monica, *Friction Stir Welding of three dissimilar aluminium alloy used in aeronautics industry*, 11th International Congress of Automotive and Transport Engineering - Mobility Engineering and Environment (CAR), Pitesti, NOV 08-10, Volume: 252, 2017, DOI: 10.1088/1757-899X/252/1/012041, 2017, (TC_5_2017_DFMI, TC_5_2017_DFMI)
17. Daniela-Monica Iordache, Gina-Mihaela Sicoe, Eduard-Laurentiu Nițu, Doina Iacomi, Cătălin-Marian Ducu, *Analysis of microstructure and mechanical properties of aluminium-copper joints welded by FSW process*, 5th International Conference on Modern Technologies in Industrial Engineering (ModTech), Lucian Blaga Univ Sibiu, Sibiu, ROMANIA, JUN 14-17, 2017, ISSN: 1757-8981, DOI: 10.1088/1757-899X/227/1/012065, 2017, (TC_1_2017_DFMI, TC_1_2017_DFMI)
18. M A Constantin, A Boșneag, E Nitu and M Iordache, *Orientation of process parameter values of TIG assisted FSW of copper to obtain improved mechanical properties*, IOP Conf. Series: Materials Science and Engineering 400 (2018) 022017 (ModTech 2018 International Conference - Modern Technologies in Industrial Engineering), doi: 10.1088/1757-899X/400/2/022017, 2018, (TC_16_2018_DFMI)
19. A Boșneag, M. A. Constantin, E Nitu and M Iordache, *Friction Stir Welding of three dissimilar aluminium alloy: AA2024, AA6061 and AA7075*, IOP Conf. Series: Materials Science and Engineering 400 (2018) 022013 (ModTech 2018 International Conference - Modern Technologies in Industrial Engineering), doi: 10.1088/1757-899X/400/2/022013, 2018, (TC_16_2018_DFMI)

C3. Articole în reviste și volumele unor manifestări științifice indexate în alte baze de date internaționale

1. Iordache M., *Determination of the limit deformations at deep drawing by simulation of deep drawing with cylindrical punch with flat bottom*, Buletinul Institutului Politehnic Iași, Fascicula 5B, 2006, pag 501-506, ISSN 1011-2855 (BDI: Index Copernicus, ULRICHS), 2006
2. Iordache M., *Contributions regarding the determination of the plastic behavior of the material A5 STAS 10318-80*, Buletinul Institutului Politehnic Iași, Fascicula 5B, 2006, pag 507-512, ISSN 1011-2855 (BDI: Index Copernicus, ULRICHS), 2006
3. Axinte C., Iordache M., *A study of shape and dimensional accuracy of the cylindrical deep-drawn parts*, Modeling and Optimization in the Machines Building Field, MOCM 14, vol. 3, ISSN 1224 – 7480, pp. 4-8, 2008, BDI : CSA, VINITI, <http://pubs.ub.ro/?pg=revues&rev=mocm&num=200814&vol=3&aid=2252/>, 2008, (TC__DAT, TC__DAT)

4. Iordache M., Bourgeois N., Moreira L. P., Martiny M., Ferron G., *Experimental and Numerical Analysis of the Formability of Anisotropic Steel Sheet*, International Review of Mechanical Engineering - March 2008, ISSN 1970 - 8734-Cambridge Scientific Abstracts (CSA/CIG)-Academic Search Complete (EBSCO Information Services), <http://www.praiseworthyprize.com/IREME.htm>, 2008, (TC__DAT, TC__DAT)
5. Iordache M., Axinte C., *Experimental and theoretical investigation of the cup drawing process of anisotropic steel sheets*, Modeling and Optimization in the Machines Building Field, MOCM 14, vol. 2, ISSN 1224 – 7480, pp. 154-160, 2008, BDI : CSA, VINITI, <http://pubs.ub.ro/?pg=revues&rev=mocm&num=200814&vol=2&aid=2022>, 2008, (TC__DAT, TC__DAT)
6. Iordache M., Axinte C., *Theoretical and experimental studies regarding semispherical punch process of steel sheets A5 STAS 10318-80*, ANNALS of the ORADEA UNIVERSITY. Fascicle of Management and Technological Engineering, vol. 7, ISSN 1583 – 0691, pp. 1522-1527, 2008, doi:10.15660/AUOFMTE.2008.1159, BDI: Index Copernicus, Google Scholar, <http://imtuoradea.ro/auo.fmte/article.php?v1=2008>, 2008, (TC__DAT, TC__DAT)
7. Axinte C., Iordache M., *Determination of residual stresses distribution within the formed part*, ANNALS OF THE ORADEA UNIVERSITY. Fascicle of Management and Technological Engineering, vol. 7, ISSN 1583 – 0691, pp. 54-58, 2008, doi:10.15660/AUOFMTE.2008.913, BDI: Index Copernicus, Google Scholar, Ulrichsweb <http://imtuoradea.ro/auo.fmte/article.php?v1=2008/>, 2008, (TC__DAT, TC__DAT)
8. Iordache M., Axinte C., *Experimental Study of limit strains in the case of Marciniak test*, ANNALS of the ORADEA UNIVERSITY. Fascicle of Management and Technological Engineering, vol. 7, ISSN 1583 – 0691, pp. 1514-1521, 2008, doi: 10.15660/AUOFMTE.2008.1158, BDI: Index Copernicus, Google Scholar, Ulrichsweb <http://imtuoradea.ro/auo.fmte/article.php?v1=2008>, 2008, (TC__DAT, TC__DAT)
9. Iordache M., Axinte C., *Study on the earing minimization in the cup drawing process*, Modeling and Optimization in the Machines Building Field, MOCM 14, vol. 3, ISSN 1224 – 7480, pp. 60-66, 2008, BDI : CSA, VINITI, <http://pubs.ub.ro/?pg=revues&rev=mocm&num=200814&vol=3&aid=2263>, 2008, (TC__DAT, TC__DAT)
10. Iordache M., *Studies regarding the definition and use of yield criterion in the simulation of the deep drawing process of sheet steel*, Annals of the Oradea University. Fascicle of Management and Technological Engineering, vol. 8, ISSN 1583 – 0691, pp. 298-305, 2009, doi:10.15660/AUOFMTE.2009.1432, BDI: Index Copernicus, Google Scholar, Ulrichsweb, <http://imtuoradea.ro/auo.fmte/article.php?v1=2009>, 2009, (TC__DAT, TC__DAT)
11. Iordache M., *Studies concerning the type determination in the case of the cup drawing process*, Annals of the Oradea University. Fascicle of Management and Technological Engineering, vol. 8, ISSN 1583 – 0691, pp. 306-310, 2009, doi:10.15660/AUOFMTE.2009.1433, BDI: Index Copernicus, Google Scholar, Ulrichsweb, <http://auo.fmte.rdsor.ro> , <http://imtuoradea.ro/auo.fmte/article.php?v1=2009>, 2009, (TC__DAT, TC__DAT)
12. Iordache Monica, Teaca Mihaela, Charpentier Isabelle, Martiny Marion, Ferron Gérard, *Identification of sheet metal plastic anisotropy and optimization of initial blank shape in deep drawing*, The Annals of “Dunărea De Jos” University of Galați Fascicle V, Technologies in Machine Building, ISSN 1221-4566, pag.149-154, 2009, BDI: CSA, SCIPPIO, <http://www.tcm.ugal.ro/tmb/2009/127.pdf>, <http://www.tcm.ugal.ro/tmb/>, 2009, (TC__DAT, TC__DAT)
13. Nițu Eduard, Iordache Monica, Martiny Marion, Ferron Gérard, *Evaluation of microhardness, effective stress and residual stress in cold rolling of complex profiles – comparison between experiments and calculations*, The Annals of “Dunărea De Jos” University of Galați Fascicle V, Technologies in Machine Building, ISSN 1221-4566, pag. 107-113, 2009, BDI: CSA, SCIPPIO <http://www.tcm.ugal.ro/Anale1/2009/120.pdf>, <http://www.tcm.ugal.ro/tmb/>, 2009
14. Axinte C., Iordache M., *State of stresses within u bent parts and its effect on the springback amount*, Scientific bulletin, Faculty of Mechanics and Technology, Automotive series, year XV, 2009, no.19, vol. B, ISSN:1453-1100, BDI: Index Copernicus, http://jml2012.indexcopernicus.com/abstract.php?icid=906912&id_lang=3/, 2009
15. Nițu E., Iordache M., Iacomi D., Rizea A., *Design of the Modular Device for the Multiple Drilling of Holes for the automotive pieces*, Scientific bulletin, Faculty of Mechanics and Technology, Automotive series, year XV, 2009, no.19, vol. B, ISSN 1453-1100, BDI: Index Copernicus,

- http://jml2012.indexcopernicus.com/abstract.php?icid=907024&id_lang=3/, 2009, (TC__DAT, TC__DAT)
16. Iacomi D., Rizea A., Nitu E., Iordache M., *Constructional optimization of the bearings of a modular boring by decisional simulation*, Scientific bulletin, Faculty of Mechanics and Technology, Automotive series, year XV, 2009, no.19, vol. B, ISSN 1453-1100, BDI: Index Copernicus, http://jml2012.indexcopernicus.com/abstract.php?icid=907019&id_lang=3/, 2009, (TC__DAT, TC__DAT)
17. Iordache M., Axinte C., *Theoretical studies concerning the blank holder force of a blank shape in the cup drawing process*, Buletinul Institutului Politehnic Iași, tomul LV pag. 39-45, fasc. 3, 2009, BDI: Ulrichsweb, 2009, (TC__DAT, TC__DAT)
18. Axinte C., Iordache M., *Distribution of strains and stresses within parts made on anisotropic metal sheets*, Buletinul Institutului Politehnic Iași, tomul LV pag. 17-23, fasc. 1, 2009, BDI: Ulrichsweb /, 2009, (TC__DAT, TC__DAT)
19. M. Tudor, I. Ungureanu, E. Nițu, M. Iordache, D. Iacomi, *Numerical modelling of the process of cold plastic deformation with tool rack of the profiles*, Scientific bulletin Automotive series, year XVI no.20, Tome A, 2010, pag. 25-32, ISSN 1453-1100, BDI: Index Copernicus http://jml2012.indexcopernicus.com/abstract.php?icid=941885&id_lang=3, 2010, (TC__DAT, TC__DAT)
20. G. Boicea, I. Ungureanu, E. Nițu, M. Iordache, *Numerical simulation using FEM of the cold plastic deformation process with planetary rollers to achieve profiles*, University of Pitesti, Scientific Bulletin, AUTOMOTIVE Series, year XVI, no.20, vol. A, 2010, p. 5-9, ISSN 1453-1100, BDI: Index Copernicus http://jml2012.indexcopernicus.com/abstract.php?icid=941881&id_lang=3, 2010, (TC__DAT, TC__DAT)
21. L. Marinței, G. Ferron, I. Ungureanu, M. Iordache, E. Nițu, *Study concerning determination of the laws of behavior of materials used for the radial cold rolling*, University of Pitesti. Scientific Bulletin, AUTOMOTIVE Series, year XVI, no.20, vol. A, 2010, p. 10-16, ISSN 1453-1100, BDI: Index Copernicus http://jml2012.indexcopernicus.com/abstract.php?icid=941883&id_lang=3, 2010, (TC__DAT, TC__DAT)
22. E. Nițu, M. Iordache, G. Ferron, I. Ungureanu, L. Marinței, *A study on the type of mesh of the workpiece used for numerical modeling of the thread rolling process*, University of Pitesti, Scientific Bulletin, AUTOMOTIVE Series, year XVI, no.20, vol. A, 2010, p. 17-24, ISSN 1453-1100, BDI: Index Copernicus http://jml2012.indexcopernicus.com/abstract.php?icid=941884&id_lang=3/, 2010, (TC__DAT, TC__DAT)
23. M. Iordache, I. Ungureanu, G. Boicea, E. Nițu, D. Iacomi, *Experimental study of the rolling forces on profiles form tapping*, Academic Journal of Manufacturing Engineering, vol. 7, ISSUE 1/2011, ISSN 1583-7904, Editura Politehnica, pag. 77-82, BDI: Index Copernicus, http://journals.indexcopernicus.com/jml_archives/ICJML_2011.pdf , 2011, (TC__DAT, TC__DAT)
24. G. Boicea, I. Ungureanu, E. Nițu, M. Iordache, D. Iacomi, *Finite element modelling of cold rolling by form tapping of grooves*, Academic Journal of Manufacturing Engineering, vol. 9, ISSUE 4/2011, ISSN 1583-7904, Editura Politehnica, pag. 18-23, BDI: Index Copernicus, http://journals.indexcopernicus.com/jml_archives/ICJML_2011.pdf /, 2011, (TC__DAT, TC__DAT)
25. M. Tudor, I. Ungureanu, E. Nitu, D. Iacomi, M. Iordache, St. Tabacu, *Finite element modelling of cold rolling by flat wedge of circular grooves*, Academic Journal of Manufacturing Engineering, vol. 9, ISSUE 4/2011, ISSN 1583-7904, Editura Politehnica, pag. 106-111, BDI: Index Copernicus, http://journals.indexcopernicus.com/jml_archives/ICJML_2011.pdf , 2011
26. G. Boicea, M. Iordache, I. Ungureanu, E. Nițu, D. Iacomi, *Experimental research on the forces of form tapping trapezoidal profiles*, University of Pitesti -Scientific Bulletin, AUTOMOTIVE Series A, special issue 2011, pag. 5-14, ISSN 1453-1100, BDI: Index Copernicus http://journals.indexcopernicus.com/jml_archives/ICJML_2011.pdf, 2011, (TC__DAT, TC__DAT)
27. E. Nițu, I. Ungureanu, M. Iordache, D. Iacomi,, *Analytical modelling of the radial cold rolling of the trapezoidal profiles*, University of Pitesti - Scientific Bulletin, AUTOMOTIVE Series A, special issue, 2011,pag. 62-69, ISSN 1453-1100, BDI: Index Copernicus, http://journals.indexcopernicus.com/jml_archives/ICJML_2011.pdf, 2011, (TC__DAT, TC__DAT)
28. Ungureanu, M. Tudor, E. Nitu, D. Iacomi, M. Iordache, *The influence of process parameters on the deformation force when rolling trapezoidal profiles with rack tools*, University of Pitesti - Scientific Bulletin, AUTOMOTIVE Series A, special issue 2011, pag. 70-80, ISSN 1453-1100, BDI: Index Copernicus http://journals.indexcopernicus.com/jml_archives/ICJML_2011.pdf/, 2011, (TC__DAT, TC__DAT)

29. M. Iordache, *Experimental investigations of forming limit curve in sheet steel*, Annals of the Oradea University. Fascicle of Management and Technological Engineering, Volume XI (XXI), 2012, NR2, ISSN 1583 – 0691, pag. 460-465, BDI: Index Copernicus, Google Scholar, Ulrichsweb, doi: 10.15660/AUOFMTE.2012-1.2581, http://imtuoradea.ro/auo.fmte/article.php?v1=2012-1/15_puncte, 2012, (TC_7_2012_DFMI, TC_7_2012_DFMI)
30. M. Iordache, *Experimental investigations and numerical simulation of the semispherical punch process*, ANNALS OF THE ORADEA UNIVERSITY. Fascicle of Management and Technological Engineering, Volume XI (XXI), 2012, NR2, ISSN 1583 – 0691, pag. 448-453, BDI: Index Copernicus, Google Scholar, Ulrichsweb, doi: 10.15660/AUOFMTE.2012-2.2603, <http://imtuoradea.ro/auo.fmte/article.php?v1=2012-2>, 2012, (TC_7_2012_DFMI, TC_7_2012_DFMI)
31. M. Iordache, D. Iacomi, *Characterizing the behaviour of materials at cold plastic deformation for FEM analysis*, Scientific Bulletin, AUTOMOTIVE series, Year XVIII, No. 22, Volume B, pag. 85-93, ISSN1453-1100, University of PITEȘTI, 2012, BDI: Index Copernicus, <http://journals.indexcopernicus.com/Scientific+Bulletin+Automotive+Series,p1766,3.html>, 2012, (TC_7_2012_DFMI, TC_7_2012_DFMI)
32. D. Iacomi, M. Iordache, *Hardness of the superficial layer when rolling complex profiles with wedge tools*, Scientific Bulletin, AUTOMOTIVE series, Year XVIII, No. 22, Volume B, pag. 51-61, ISSN: 1453-1100, University of PITEȘTI, 2012, BDI: Index Copernicus, <http://journals.indexcopernicus.com/Scientific+Bulletin+Automotive+Series,p1766,3.html/>, 2012, (TC_7_2012_DFMI, TC_7_2012_DFMI)
33. M. Iordache, *Experimental investigations of forming limit curve in sheet steel*, Annals of the Oradea University. Fascicle of Management and Technological Engineering, Volume XI (XXI), 2012, NR2, ISSN 1583 – 0691, pag. 460-465, BDI: Index Copernicus, Google Scholar, Ulrichsweb, doi: 10.15660/AUOFMTE.2012-1.2581, <http://imtuoradea.ro/auo.fmte/article.php?v1=2012-1>, 2013, (TC_8_2013_DFMI, TC_8_2013_DFMI)
34. G. M. Sicoe, D. Iacomi, M. Iordache, E. Nițu, *Numerical modeling of the process of cold plastic deformation with planetary roles*, International Journal of Modern Manufacturing Technologies, ISSN 2067–3604, Vol. V, No. 1 / 2013, pag. 105-112, BDI: Inspec-Engineering Village <http://modtech.ro/international-journal/international-journal-ijmmt.php?volume=vol5no12013/>, 2013, (TC_8_2013_DFMI, TC_8_2013_DFMI)
35. G. M. Sicoe, D. Iacomi, M. Iordache, E. Nițu, *Research on numerical modelling and simulation of the form tapping process to achieve profiles*, International Journal of Modern Manufacturing Technologies, ISSN 2067–3604, Vol. V, No. 2 / 2013, pag. 83-88, BDI: Inspec-Engineering Village, <http://modtech.ro/international-journal/international-journal-ijmmt.php?volume=vol5no22013>, 2013, (TC_8_2013_DFMI, TC_8_2013_DFMI)
36. Monica Iordache, Doina Iacomi, Eduard Nițu, *Device and experimental stand to process profiles by radial cold rolling with roller tools*, University of PITEȘTI, Scientific Bulletin, AUTOMOTIVE series, 2013, Year XIX, No. 23, Volume B, pag. 74-80 (BDI: Index Copernicus), 2013, (TC_8_2013_DFMI, TC_8_2013_DFMI)
37. D. Iacomi, M. Iordache, E. Nițu, *Comparative Study Concerning the Generation of Some Circular Grooves by Cold Rolling with Wedge Tools and Cutting*, Advanced Materials Research Vol. 1036 (2014) pp 298-303 doi:10.4028/www.scientific.net/AMR.1036.298, 2014, (TC_9_2014_DFMI, TC_9_2014_DFMI)
38. E. Nițu, M. Iordache, D. Iacomi, *Comparative Study Concerning the Generation of Some Circular Grooves by Radial Cold Rolling with Roller Tools and Cutting*, Advanced Materials Research Vol. 1036 (2014) pp 298-303 doi:10.4028/www.scientific.net/AMR.1036.298, BDI: Index Copernicus, Google Scholar, Chemical Abstracts, Cambridge Scientific Abstracts, Inspec, ProQuest, EBSCO etc, <http://www.scientific.net/AMR.1036.246>, 2014, (TC_9_2014_DFMI, TC_9_2014_DFMI)
39. Sicoe Gina, Iacomi Doina, Iordache Monica and Nițu Eduard, *Analysis of Intermittent Cold Plastic Deformation with Planetary Rollers by Numerical Simulation*, ICAMaT 2014, October 23-24, București, publicată în Applied Mechanics and Materials, Vol. 760 - Advanced Technologies in Designing and Progressive Development of Manufacturing Systems (2014) pp 415-420, BDI: Index Copernicus, Google Scholar, Chemical Abstracts, Cambridge Scientific Abstracts, Inspec, ProQuest, EBSCO etc, <http://www.scientific.net/AMM.760.415>, 2014, (TC_9_2014_DFMI, TC_9_2014_DFMI)

40. Boşneag Ana, Constantin Adrian, Nițu Eduard, Iordache Monica and Rizea Alin, *Friction Stir Welding of Composite Materials with Metallic Matrix: a Brief Review*, IManE 2015, Applied Mechanics and Materials Vol. 809-810 (2015) pp 449-454, BDI: Index Copernicus, Google Scholar, Chemical Abstracts, Cambridge Scientific Abstracts, Inspec, ProQuest, EBSCO etc, <http://www.scientific.net/AMM.809-810.449/>, 2015, (TC_2_2015_DFMI, TC_2_2015_DFMI)
41. Constantin Adrian, Boşneag Ana, Iordache Monica, Nițu Eduard and Iacomi Doina, *Numerical Simulation of Friction Stir Welding of Aluminum Alloys: a Brief Review*, IManE 2015, Applied Mechanics and Materials, Vol. 809-810 (2015) pp 467-472, BDI: Index Copernicus, Google Scholar, Chemical Abstracts, Cambridge Scientific Abstracts, Inspec, ProQuest, EBSCO etc, <http://www.scientific.net/AMM.809-810.467/>, 2015, (TC_2_2015_DFMI, TC_2_2015_DFMI)
42. Boşneag Ana, Constantin Adrian, Nițu Eduard, Iordache Monica, Iacomi Doina, *Study on Analysis between Friction Stir Welding Process and Hybrid Friction Stir Welding Process*, CONFERENG 2015, November 13-14, Târgu Jiu, publicată în Annals of the "Constantin Brâncuși" University of Târgu Jiu, issue 3 / 2015, pp 59-65, BDI: Index Copernicus, Open Academic Journals Index, International Impact Factor Services, Scientific Indexing Services, Advanced Science Index etc, <http://www.utgjiu.ro/revista/?s=ing>, 2015, (TC_2_2015_DFMI, TC_2_2015_DFMI)
43. Constantin Adrian, Boşneag Ana, Iordache Monica, Bădulescu Claudiu, Nițu Eduard, *Numerical Simulation of Friction Stir Spot Welding*, Applied Mechanics and Materials, Vol. 834, pp. 43-48, (2016) ICAMaT 2015, BDI: Index Copernicus, Google Scholar, Chemical Abstracts, Cambridge Scientific Abstracts, Inspec, ProQuest, EBSCO etc, <http://www.scientific.net/AMM.834.43>, 2015, (TC_2_2015_DFMI, TC_2_2015_DFMI)
44. Iordache Monica, Bădulescu Claudiu, Nitu Eduard, Iacomi Doina, *Numerical Simulation of Friction Stir Welding (FSW) Process Based on ABAQUS Environement*, Advanced Materials and Structures - AMS'15, 16-17 October 2015, Timișoara, publicat în Solid State Phenomena, ISSN: 1662-9779, Vol. 254, pp 272-277, 2016, doi:10.4028/www.scientific.net, 2015, (TC_2_2015_DFMI, TC_2_2015_DFMI)
45. Iordache Monica, Nitu Eduard, Bădulescu Claudiu, Iacomi Doina, Botila Lia, *Evaluation of Thermal Distribution in Friction Stir Welding on Dissimilar Materials (Cu-Al) Using Infrared Thermography and Numerical Simulation*, The 8th International Conference innovative technologies for joining advanced materials, June 02-03, 2016, Timișoara, publicat în Advanced Materials Research, ISSN: 1662-8985, Vol. 1138, pp 113-118, doi:10.4028/www.scientific.net/AMR.1138.113, 2016, (TC_2_2016_DFMI, TC_2_2016_DFMI)
46. IORDACHE Monica, NITU Eduard, BADULESCU Claudiu, RADU Bogdan, CIUCA Cristian, *Finite Element Analysis of Thermal Distributions in Dissimilar Friction Stir Welding of Copper and Aluminum alloy*, Welding & Material Testing, an XXVI, nr 2/2017, pag 8-12, ISSN 1453-0392 BDI: CSA - Metadex (SUA), CSA - Technology Research Database (SUA), Weldasearch (UK), cataloage internaționale de rezumate: Welding Abstracts (UK) și IIS-Data (Italia), 2017, (TC_1_2017_DFMI, TC_1_2017_DFMI)
47. Daniela-Monica Iordache, Cătălin-Marian Ducu, Eduard-Laurentiu Nițu, Doina Iacomi, Adriana-Gabriela Plăiașu, *Preliminary study on the microstructure and mechanical properties of dissimilar joints of aluminum alloy and pure copper by FSW*, 21st Innovative Manufacturing Engineering & Energy International Conference – IManE&E 2017, MATEC Web Conf., Volume 112, 2017 BDI: Chemical Abstracts Service (CAS), Compendex (Engineering Village), Conference Proceedings Citation Index (Web of Science), DOAJ, EBSCO (EBSCO Discovery Service), Google Scholar, Inspec, Polymer Library, Scopus, Materials Science & Engineering Database (ProQuest), SciTech Premium Collection (ProQuest), Technology Collection (ProQuest), 2017, (TC_1_2017_DFMI, TC_1_2017_DFMI)
48. Daniela-Monica Iordache, Alin-Daniel Rizea, Aurel Costea, Eduard-Laurentiu Nitu, Alexandru Baba, *Method for optimization of the orientation and fixing system of workpiece for the construction of control devices*, 21st Innovative Manufacturing Engineering & Energy International Conference – IManE&E 2017, MATEC Web Conf., Volume 112, 2017 BDI: Chemical Abstracts Service (CAS), Compendex (Engineering Village), Conference Proceedings Citation Index (Web of Science), DOAJ, EBSCO (EBSCO Discovery Service), Google Scholar, Inspec, Polymer Library, Scopus, Materials Science & Engineering Database (ProQuest), SciTech Premium Collection (ProQuest), Technology Collection (ProQuest), 2017, (TC_8_2017_DFMI, TC_12_2017_DFMI, TC_8_2017_DFMI, TC_12_2017_DFMI)
49. Ana Bosneag, Marius Adrian Constantin, Eduard Nițu, Monica Iordache, *Analysis of the influence of position of welding materials on the FSW seams properties for three dissimilar aluminium alloy*, MATEC

Web of Conferences 178, 03003 (2018) <https://doi.org/10.1051/mateconf/201817803003IManE&E> 2018, 2018, (TC_16_2018_DFMI)

50. Marius Adrian Constantin, Ana Boşneag, Eduard Nițu, Monica Iordache, *Comparative study on microhardness between friction stir welding and tungsten inert gas assisted friction stir welding of pure copper*, MATEC Web of Conferences 178, 03002 (2018) <https://doi.org/10.1051/mateconf/201817803002IManE&E> 2018, 2018, (TC_16_2018_DFMI)

51. Marius Adrian Constantin, Ana Boşneag, Eduard Nițu and Monica Iordache, *Orientation of process parameter values of TIG assisted FSW of copper to obtain improved mechanical properties*, ModTech International Conference, June 13-16, 2018, Constanta, Romania, 2018, (TC_16_2018_DFMI)

52. Ana Bosneag, Marius Adrian Constantin, Eduard Nițu, Monica Iordache, *Friction Stir Welding of three dissimilar aluminium alloy: AA2024, AA6061 and AA7075*, ModTech International Conference, June 13-16, 2018, Constanta, Romania, 2018, (TC_16_2018_DFMI)

53. M D Iordache, A Costea and C Malea, *Methods for modernization of processing equipment*, IOP Conf. Series: Materials Science and Engineering 564 (2019) (23rd International Conference on Innovative Manufacturing Engineering and Energy - IManE&E 2019), IOP Publishing, doi:10.1088/1757-899X/564/1/, 2019, (TC_5_2019_DFMI)

54. D C Anghel, A D Rizea, D M Iordache and M L Beșliu-Gherghescu, *Studies on the influence of design parameters on the behaviour at shock of 3Dprinted components fabricated by fused deposition modelling*, IOP Conf. Series: Materials Science and Engineering 564 (2019) (23rd International Conference on Innovative Manufacturing Engineering and Energy - IManE&E 2019), IOP Publishing, doi:10.1088/1757-899X/564/1/, 2019, (TC_14_2019_DFMI)

55. M. Cracanel, A. Bosneag, M. Diakhate, C. Badulescu, E. Nitu, M. Iordache, J. Grigore, *Influence des paramètres du procédé de soudage FSW sur le comportement mécanique de l'assemblage: analyse par émission acoustique et corrélation d'images numériques*, 4ème Congrès Français de Mécanique Brest, 26 au 30 Août 2019, sciencesconf.org:cfm2019:244191, pag. 6360-6368, 2019, 2019, (TC_12_2019_DFMI)

56. D. Scirlo, M. A. Constantin, C. Badulescu, D. Negrea, M. Diakhate, E. Nitu, M. Iordache, *Influence des défauts de soudage FSW sur le comportement mécanique d'un assemblage bout à bout en Cu-DHP: analyse microscopique et par corrélation d'images numériques*, 4ème Congrès Français de Mécanique Brest, 26 au 30 Août 2019, sciencesconf.org:cfm2019:244734, pag. 6459-6468, 2019, 2019, (TC_12_2019_DFMI)

57. M D Iordache, A Costea, C Malea, E Nitu and A Rizea, *Developing structures for the construction of the processing equipment - Case study*, IOP Conf. Series: Materials Science and Engineering 591 (2019) 012021 (Modern Technologies in Industrial Engineering VII - ModTech2019), IOP Publishing, doi:10.1088/1757-899X/591/1/012021, 2019, 2019, (TC_5_2019_DFMI)

D. Lucrări (articole) publicate în perioada 2000 - 2019 în reviste și volume de conferințe cu referenți (neindexate)

D1. Articole în reviste

1. Banu I., Dobrescu R., Iordache M., Anghel D., *Contribuții cu privire la stabilirea randamentului optim la rectificare*, Buletinul Științific al Universității din Pitești, seria Tehnologie și Management, nr.1, pag.3-9, 2001, 2001

2. Iordache M., *Contribuții privind determinarea curbelor limită de deformare prin simulare numerică*, Buletinul Științific al Universității din Pitești, seria Tehnologie și Management, nr.2, pag. 92-98, 2002, 2002

3. Iordache M., Vasile Gh., *Model pentru determinarea prin simulare a influenței frecării asupra deformării la ambutisarea tablelor din oțel*, Buletin Științific, Seria Inginerie Managerială și Tehnologică, nr. 1, pag. 47-53, 2003;, 2003

4. Vasile Gh., Iordache M., *Considerații privind realizarea unui model referitor la evoluția deformațiilor în timpul încercării la tracțiune a tablelor din oțel TRIP 1000*, Buletin Științific, Seria Inginerie Managerială și Tehnologică, nr. 1, pag. 137-143, 2003, 2003

5. Iordache M., Vasile Gh., *Theoretical study concerning the influence of lubrication on deformation state at the drawing of semispherical piece*, Analele Universității Valahia, Târgoviște, Secțiunea Inginerie Mecanică, pag 33-39, 2004, 2004

6. Iordache M., Vasile Gh., *Studiul deformațiilor plastice în cazul pieselor ambutisate din oțel*, Construcția de mașini, nr. 3-4, pag. 7-9, 2004, 2004

7. Iordache M., *Studiu teoretic cu privire la influența forței de reținere a semifabricatului asupra stării de tensiuni la ambutisarea pieselor semisferice*, Buletin Științific, Seria Inginerie Managerială și Tehnologică, pag. 71-75, 2004, 2004
8. Iordache M., Ferron G., *Studies concerning the simulation on semispherical drawing process for lubrication conditions*, Buletinul Științific, Seria Tehnologie și Management, Universitatea din Pitești, pag. 44-50, anul XII, 2005., 2005
9. Iordache M., Ungureanu I., *Contributions regarding the study of the A5 steel sheet's anisotropy*, Scientific Bulletin, Automotive series, year XII, no.16, 2006, 2006
10. Iordache Monica, *Speculations and experimental works concerning the appearance of ears at the drawing of flangeless cylindrical pieces*, Academic Journal of Manufacturing Engineering, No. 2, Sibiu, 2007, pag 43-46, 2007
11. Iordache Monica, *Research of the A5 sheets properties obtained by the simulation of the traction assays*, Academic Journal of Manufacturing Engineering, No. 2, Sibiu, 2007, pag 43-46, 2007
12. Doina Iacomi, Alin Rizea, Eduard Nițu, Monica Iordache, *Contribution concerning the use of functional analysis in the design of a modular drilling equipment*, Scientific Bulletin, AUTOMOTIVE series, year XIII, no.17, 2007, University of Pitesti, 2007
13. Nițu Eduard, Iordache Monica, Iacomi Doina, Rizea Alin, *The behavior simulation of an adjustable modular system of tools guidance in processing holes*, Optimum technologies, technologic systems and materials in themachines building field, TSTM-13, No. 1, Bacău, 2007, pag. 58-64, 2007
14. Rizea Alin, Iacomi Doina, Nițu Eduard, Iordache Monica, *Functional analysis for the product The Adjustable modular system of tools guidance*, Optimum technologies, technologic systems and materials in themachines building field, TSTM-13, No. 1, Bacău, 2007, pag. 65-71, 2007
15. Iacomi D., Iordache M., Nițu E., Rizea A., *The constructive optimizing of a modular subset through simulation using the finite element method*, Scientific bulletin Automotive series, year XIV no.18, ISSN 1453 – 1100, pp74-82, 2008, 2008, (TC__DAT, TC__DAT)
16. Iordache M., *Several observations on the punch-blank friction during the semispherical drawing process*, Universitatea din Pitești-Buletin științific, seria Mecanică Aplicată, 2008, ISSN 1582-9561, 2008, (TC__DAT, TC__DAT)
17. Rizea A., Iacomi D., Nițu E., Iordache M., *Aspects concerning specific phenomena to ceramics chip removal*, Scientific bulletin Automotive series, year XIV no.18, ISSN 1453 – 1100, 2008, University of Pitesti, 2008, (TC__DAT, TC__DAT)
18. Nițu E., Iordache M., Iacomi D., Rizea A., *The use of the numerical modeling when designing a modular device for the multiple drilling of holes*, Universitatea din Pitești-Buletin științific, seria Mecanică Aplicată, 2008, ISSN 1582-9561, 2008, (TC__DAT, TC__DAT)
19. Eduard Nitu, Monica Iordache, Doina Iacomi, Alin Rizea, *Design of the Modular Device for the Multiple Drilling of Holes for the automotive pieces*, Scientific bulletin Automotive series, year XV no.19, Tome A, ISSN 1453 – 1100, 2009, University of Pitesti, 2009, (TC__DAT, TC__DAT)
20. Axinte C., Iordache M., *Stresses distribution within a U part made from anisotropic metal sheet*, Optimum technologies, technologic systems and materials in themachines building field, TSTM-14, No. 1, Bacău, 2009, pag. 7-14, 2009, (TC__DAT, TC__DAT)
21. Doina Iacomi, Eduard Nițu, Monica Iordache, Viorel Nicolae, *Friction stir welding of aluminum alloys: joint characterization - a review*, University of PITEȘTI, Scientific Bulletin, AUTOMOTIVE series, 2014, Year XX, No. 24, Volume B, pag. 40-50, 2014, (TC_2_2014_DFMI, TC_2_2014_DFMI)
22. Monica Iordache, Eduard Nițu, Doina Iacomi, Viorel Nicolae, Gina Sicoe, *Review of friction stir welding numerical simulation*, University of PITEȘTI, Scientific Bulletin, AUTOMOTIVE series, 2014, Year XX, No. 24, Volume B, pag. 51-58, 2014, (TC_2_2014_DFMI, TC_2_2014_DFMI)
23. Stanciu A., Iordache M., *Verifying the Engine Cover of a Prototype Using the Finite Element Method (FEM)*, Scientific Bulletin, Automotive Series, year XX, no.24, 2016, 2016, (TC_6_2016_DFMI, TC_6_2016_DFMI)
24. Mihai Crenganiș, Alexandru Bârsan, Sever-Gabriel Racz, Daniela Monica Iordache, *Single point incremental forming using kuka KR6-2 industrial robot - a dynamic approach*, Proceedings in Manufacturing Systems, Volume13, Issue3, 2018, pag.133-140, ISSN 2067-9238, 2018, (TC_19_2018_DFMI)

D2. Articole în volumele manifestărilor științifice

1. Vasile Gh., Iordache M., *Research on simulation of double shearing testing of sheets*, Buletinul simpozionului internațional multidisciplinar “Universitaria ROPET”, Petroșani, pag.151-155, 2004, 2004
2. Iordache M., *Theoretical studies through simulation considering the variation of thickness for pieces through semispherical drawing*, Buletinul simpozionului internațional multidisciplinar “Universitaria ROPET”, Petroșani, pag.121-125, 2004, 2004
3. Iordache M., Gerard F., Ungureanu I., *Some studies regarding the simulation of semispheric deep drawing*, The international congress on automotive, CAR 2005, Pitesti, 2-4 November 2005, 2005
4. Iordache M., Gerard F., Martiny M., Ungureanu I., *Contribution regarding the determination of limite curves of deformation at deep drawing*, The international congress on automotive, CAR 2005, Pitesti, 2-4 November 2005, 2005
5. Iordache M., *Studiu teoretic privind determinarea prin simularea influenței forței de reținere a semifabricatului asupra variației grosimii piesei ambutisate*, Conferința Științifică Internațională Iași – Chișinău Tehnologii moderne. Calitate. Restructurare. TMCR 2005, 19 – 21 mai, Volumul 2, Secțiunea 03, 2005, 2005
6. Unele observații cu privire la simularea încercării la tracțiune a tablelor din oțel, Iordache M., Vasile Gh., Conferința Științifică Internațională Iași – Chișinău Tehnologii moderne. Calitate. Restructurare. TMCR 2005, 19 – 21 mai, Volumul 4, Secțiunea 06, 2005, 2005
7. Iordache M., *Determination of the limit deformations at deep drawing by simulation of deep drawing with cylindrical punch with flat bottom*, International Scientific Conference Modern Technologies, Quality, Restructuring, Iasi, May, 25th-27th, 2006, 2006
8. Iordache M., *Contributions regarding the determination of the plastic behavior of the material A5 STAS 10318-80*, International Scientific Conference Modern Technologies, Quality, Restructuring, Iasi, May, 25th-27th, 2006, 2006
9. Iordache M., *Some observations about the influence of width of sheet and the mode of stress to the deep drawing force*, Conference proceedings, TEHNONAV 2006, May, 19th-21th, Constanta, 2006
10. Nițu Eduard, Iordache Monica, Iacomi Doina, Rizea Alin, *The behavior simulation of an adjustable modular system of tools guidance in processing holes*, A VII-a Conferință cu participare internațională Optimizarea Proiectării Constructive în Construcția de Mașini - OPROTEH 2007, Bacău, 1-3 noiembrie 2007, publicată în Optimum technologies, technologic systems and materials in the machines building field, TSTM-13, No. 1, Bacău, 2007, pag. 58-64, 2007
11. Iacomi Doina, Rizea Alin, Nițu Eduard, Iordache Monica, *Functional analysis for the product "The Adjustable modular system of tools guidance"*, A VII-a Conferință cu participare internațională Optimizarea Proiectării Constructive în Construcția de Mașini - OPROTEH 2007, Bacău, 1-3 noiembrie 2007, 2007
12. Iordache M., Axinte C., *Considerations concerning the determination and utilization of the forming limit diagrams*, The 5th international symposium about design in mechanical engineering, KOD 2008, ISSN 978-86-7892-104-9, Novi Sad Serbia, pp 415-419, University of Novi Sad Faculty of Technical Sciences, Novi sad Slovak University of Technology in Bratislava, Faculty of Mechanical Engineering, Bratislava, 2008, (TC__DAT, TC__DAT)
13. Axinte C., Iordache M., *Influence of the stress-strain state on the springback of metal sheets*, The 5th international symposium about design in mechanical engineering, KOD 2008, ISSN 978-86-7892-104-9, Novi Sad Serbia, pp. 423-426, University of Novi Sad Faculty of Technical Sciences, Novi sad, Slovak University of Technology in Bratislava, Faculty of Mechanical Engineering, Bratislava, 2008
14. Axinte C., Iordache M., *The effect of plasticity criteria on part accuracy in sheet metal forming simulation*, Trends in the development of machinery and associated technology - TMT 2008, August 26th to 30th 2008, Instambul, Turcia, <http://www.tmt.unze.ba/> <http://www.tmt.unze.ba/zbornik/TMT2008/037-TMT08-169.pdf/>, 2008, (TC__DAT, TC__DAT)
15. Iacomi D., Ungureanu I., Nițu E., Iordache M., Tudor M., *Experimental study of forming forces on flat wedge tools profiles rolling*, Proceedings-ul Conferinței, vol. I, pag. 179-182. International Conference on Manufacturing Science end Education – MSE 2011, 4-6th May, Sibiu, 2011, (TC__DAT, TC__DAT)
16. Nițu E., Ungureanu I., Ferron G., Iacomi D., Iordache M., *Analytical modelling of the process of cold rolling by in-feed method - part I*, Proceedings-ul Conferinței, vol. I, pag. 207-210. International Conference on Manufacturing Science end Education – MSE 2011, 4-6th May, Sibiu, 2011, (TC__DAT, TC__DAT)

17. Stănescu, N.-D., Beșliu-Gherghescu, M.-L., Tabacu, Șt., Rizea, A., Iordache, M., Popa, D., *he Determination of the Dependency between the Input and Output Parameters in Fused Deposition Modeling (FDM) Using Multi Polytropic Functions*, AMMA 2018, The IVth International Congress of Automotive and Transport Engineering, pag. 295-302, 2018, (TC_9_2018_DFMI)

E. Brevete de invenție obținute în întreaga activitate

1. Ungureanu I., Nițu E., Iordache M., Marincei L., *Dispozitiv cu scule rolă și sistem pentru prelucrarea prin deformare plastică la rece de canale profilate circulare pe piese cilindrice*, Brevet de invenție, RO126192, 2014, (TC_9_2014_DFMI, TC_9_2014_DFMI)

2. Ungureanu I., Nițu E., Iordache M., Boicea G., *Dispozitiv cu role pentru prelucrarea de canale profilat prin deformare plastică la rece intermitentă*, Brevet de invenție, RO126193, 2014, (TC_9_2014_DFMI, TC_9_2014_DFMI)

3. Nitu Eduard-Laurentiu, Costea Aurel, Iordache Monica, Iacomi Doina, Baba Alexandru, *Cap multiax reglabil modularizat*, Brevet de invenție național, nr. 130221/29.11.2017, 2017, (TC_8_2017_DFMI, TC_12_2017_DFMI)

F. Granturi / proiecte de cercetare în perioada 2000 - 2019

F1. Granturi / proiecte câștigate prin competiție internațională

1. *Caracterisation experimentale et modelisation numerique du roulage des profils complexes*, Nitu Eduard-director, Proiect bilateral România-Franța, PN II – Capacități, nr. 211/13.04.2009, Beneficiar ANCS, anii derulării 2009-2010, valoare UPIT = 17546 lei Echipa proiectului: Iordache Monica, Iacomi Doina, 2009, 17546.00

2. *Soutien au formation francophone Science et Technologie des Matériaux / Ingénierie et Gestion de la Production*, Monica Iordache, Soutien au formation francophone Science et Technologie des Matériaux / Ingénierie et Gestion de la Production, nr inreg UPIT 7516/16.06.2016; Finantator AUF, 2016, 0.00, (TC_6_2016_DFMI, TC_5_2016_DFMI, TC_6_2016_DFMI, TC_5_2016_DFMI)

3. *INGINERIE ET GESTION DE LA PRODUCTION*, cod CE//LL/177/2016, IORDACHE DANIELA MONICA, IORDACHE DANIELA MONICA, Cod: SOUTIEN AUX FORMATIONS FRANCOPHONES, BUREAU EUROPE CENTRALE ET ORIENTALE, Agence Universitaire de la Francophonie, beneficiar: UPIT, anul: 2017, domeniul stiintific: SOUTIEN AUX FORMATIONS FRANCOPHONES, valoare: 7084.00, 2017, 7084.00, (TC_6_2017_DFMI, TC_4_2017_DFMI, TC_6_2017_DFMI, TC_4_2017_DFMI)

4. *Soutien aux formations francophones Ingénierie et Gestion de la production*, IORDACHE DANIELA MONICA, Cod: CE/LL/177/2016, beneficiar: UPIT, anul: 2018, domeniul stiintific: Soutien recherche, valoare: 8462.00, 2018, 8462.00, (TC_17_2018_DFMI, TC_7_2018_DFMI)

5. *Modelarea si simularea numerica a procesului de sudare prin frecare cu element activ rotitor-FSW (Modélisation et simulation numérique du processus de soudage par friction malaxage-FSW)*, PN-III-P3-3.1-PM-RO-FR-2019-0048, IORDACHE DANIELA MONICA, NITU EDUARD LAURENTIU, NEGREA DENIS, SICOE GINA MIHAELA, Cod: Proiecte de mobilități România-Franța, PN III-III-P3-3.1-PM-RO-FR-2019-0048, beneficiar: UEFISCDI, anul: 2019, domeniul stiintific: Tehnologii noi și emergente, valoare: 18400.00, 2019, 18400.00, (TC_12_2019_DFMI)

6. *Prelucrarea prin deformare incrementală a pieselor din industria automotive*, IORDACHE DANIELA MONICA, IORDACHE DANIELA MONICA, GAVRILUTA CORNELIA ANA, NITU EDUARD LAURENTIU, Cod: Programul P1 - Dezvoltarea sistemului național de Cercetare-Dezvoltare Axa prioritară 2 -Subprogramul 1.2 - Performanță instituțională. Proiecte de dezvoltare instituțională - Proiecte Complexe realizate în consorții CDI, beneficiar: Univ. "V. Alecsandri" din Bacău, anul: 2019, domeniul stiintific: Tehnologii noi și emergente, valoare: 5000.00, 2019, 5000.00, (TC_13_2019_DFMI)

7. *Eficientizarea proceselor de prelucrare a materialelor avansate utilizate în industriile auto și aerospațială*, IORDACHE DANIELA MONICA, RIZEA ALIN DANIEL, STANESCU NICOLAE DORU, IORDACHE DANIELA MONICA, Cod: Programul P1 - Dezvoltarea sistemului național de Cercetare-Dezvoltare Axa prioritară 2 -Subprogramul 1.2 - Performanță instituțională. Proiecte de dezvoltare instituțională - Proiecte Complexe realizate în consorții CDI, beneficiar: Univ. "V. Alecsandri" din Bacău, anul: 2019, domeniul stiintific: Tehnologii noi și emergente, valoare: 5000.00, 2019, 5000.00, (TC_15_2019_DFMI)

F2. Granturi / proiecte câștigate prin competiție națională

1. , *Tehnologii de prelucrare a profilelor (caneluri, danturi, profile elicoidale) prin deformare plastică volumică la rece - Caracterizarea tehnologică a procedeelelor de prelucrare prin deformare plastică volumică la rece cu scule cremalieră și scule rolă a pr*, Grant nr. 1410-CNCSIS, beneficiar Ministerul Educației și Cercetării, anul participării 2002, 2002, (TC___DAT, TC___DAT)
2. , *Tehnologii de prelucrare a profilelor (caneluri, danturi, profile elicoidale) prin deformare plastică volumică la rece - Calitatea straturilor superficiale ale profilelor generate prin deformare plastică volumică la rece*, Grant nr. 287-CNCSIS, beneficiar Ministerul Educației și Cercetării, anul participării 2003, 2003, (TC___DAT, TC___DAT)
3. Iacomî Doina-Responsabil Upit, *Metode, procedee performante și aplicații tehnologice privind integrarea de noi materiale în dezvoltarea conceptuală a componentelor modulare, multifuncționale și de înaltă precizie utilizate în cadrul sistemelor inteligente de prelucrar*, Contract CEEX nr. 301; Beneficiar AMCSIT – Politehnica București, anii derulării 2006-2008, valoare UPIT = 90000 lei, 2008, (TC___DAT, TC___DAT)
4. Nitu Eduard-director, *Modelarea analitică și numerică a proceselor de prelucrare prin deformare plastică volumică la rece a profilelor complexe*, Grant PN II – IDEI, PCE nr. 697/19.01.2009, CNCSIS, anii derulării 2009 - 2011, valoare UPIT = 398823 lei, 2009, (TC___DAT, TC___DAT)
5. Iordache Monica, Iacomî Doina, Nitu Eduard, Viorel Nicolae, Sicoe Gina, *Tehnologii inovative, ecologice și eficiente de imbinare a materialelor metalice și polimerice folosite în industria de automobile, utilizând tehnica de sudare prin frecare cu element activ rotitor*, INOVA-FSW, Cod PN-II-PT-PCCA-2013-4-1858, Beneficiar ANCS, anul 2014 , act aditional UEFISCDI nr. PT 1335/2.12.2014 la ctr 219/2014 (valoare UPIT= 23300lei) <http://www.inovafsw.upt.ro/members.htm>, 2014, (TC_2_2014_DFMI, TC_2_2014_DFMI)
6. Iordache Monica, Iacomî Doina, Nitu Eduard, Viorel Nicolae, Tudor Madalin, *Tehnologii inovative, ecologice și eficiente de imbinare a materialelor metalice și polimerice folosite în industria de automobile, utilizând tehnica de sudare prin frecare cu element activ rotitor*, INOVA-FSW, INOVA-FSW, Cod PN-II-PT-PCCA-2013-4-1858, Beneficiar ANCS, anul 2015, act aditional UEFISCDI nr. PT 518/27.03.2015 la ctr 219/2014, valoare UPIT= 46600lei, 2015, (TC_2_2015_DFMI, TC_2_2015_DFMI)
7. Iordache Monica, Nitu Eduard, Iacomî Doina, Viorel Nicolae, Sicoe Gina, *Tehnologii inovative, ecologice și eficiente de imbinare a materialelor metalice și polimerice folosite în industria de automobile, utilizând tehnica de sudare prin frecare cu element activ rotitor*, INOVA-FSW, Cod PN-II-PT-PCCA-2013-4-1858, Beneficiar ANCS, anul 2016, act aditional UEFISCDI nr. PT 538/11.02.2016 la ctr 219/2014 (valoare UPIT= 55754lei) , 2016, (TC_2_2016_DFMI, TC_2_2016_DFMI)
8. IORDACHE DANIELA MONICA, IORDACHE DANIELA MONICA, NITU EDUARD LAURENTIU, IACOMI DOINA TITINICA, NICOLAE EUGEN VIOREL, SICOE GINA MIHAELA, *Tehnologii inovative, ecologice și eficiente de imbinare a materialelor metalice și polimerice folosite în industria de automobile, utilizând tehnica de sudare prin frecare cu element activrotitor (Inova-FSW)*, Cod: Program PARTENERIATE - Proiecte colaborative de cercetare aplicativa - Competitie 2013, beneficiar: UEFISCDI, anul: 2017, domeniul stiintific: Materiale, procese și produse inovative, valoare: 49346.00, 2017, (TC_1_2017_DFMI, TC_1_2017_DFMI)
9. IORDACHE DANIELA MONICA, RIZEA ALIN DANIEL, STANESCU NICOLAE DORU, NITU EDUARD LAURENTIU, IORDACHE DANIELA MONICA, VIERU IONEL, TABACU STEFAN LUCIAN, SICOE GINA MIHAELA, PLAIASU ADRIANA GABRIELA, ANGHEL DANIEL CONSTANTIN, *Implementarea tehnologiilor aditive în fabricarea componentelor complexe și suprasolicitate*”, Cod PN-III-P1-1.2-PCCDI-2017-0224, Cod: Programul P1 - Dezvoltarea sistemului național de Cercetare-Dezvoltare Axa prioritară 2 -Subprogramul 1.2 - Performanță instituțională. Proiecte de dezvoltare instituțională - Proiecte Complexe realizate în consorții CDI, beneficiar: Institutul Național de Cercetare-Dezvoltare pentru Mecatronică și Tehnica Măsurării – INCDMTM, anul: 2018, domeniul stiintific: Tehnologii noi și emergente, valoare: 250793.00, 2018, (TC_9_2018_DFMI)
10. IORDACHE DANIELA MONICA, GAVRILUTA CORNELIA ANA, PLAIASU ADRIANA GABRIELA, IORDACHE DANIELA MONICA, BELU NADIA, RIZEA ALIN DANIEL, STANESCU NICOLAE DORU, ANGHEL DANIEL CONSTANTIN, NITU EDUARD LAURENTIU, *TEHNOLOGII DE FABRICARE INTELIGENTE PENTRU PRODUCTIA AVANSATĂ A PIESELOR DIN INDUSTRIILE DE AUTOMOBILE ȘI AERONAUTICĂ (TFI PMAIAA)*, Cod: Programul P1 - Dezvoltarea sistemului național de Cercetare-Dezvoltare Axa prioritară 2 -Subprogramul 1.2 - Performanță instituțională. Proiecte de dezvoltare instituțională - Proiecte Complexe realizate în consorții CDI, beneficiar: Univ. "V. Alecsandri" din Bacau, anul: 2018, domeniul stiintific: Tehnologii noi și emergente, valoare: 306675.00, 2018, (TC_19_2018_DFMI)

11. IORDACHE DANIELA MONICA, RIZEA ALIN DANIEL, STANESCU NICOLAE DORU, IORDACHE DANIELA MONICA, ANGHEL DANIEL CONSTANTIN, VIERU IONEL, TABACU STEFAN LUCIAN, NITU EDUARD LAURENTIU, PLAIASU ADRIANA GABRIELA, *Cercetări privind implementarea Inteligenței Artificiale în proiectarea componentelor de automobile, în vederea fabricației prin 3D Printing*, Cod: Cod PN-III-P1-1.2-PCCDI-2017-0224, beneficiar: Institutul Național de Cercetare-Dezvoltare pentru Mecatronică și Tehnica Măsurării – INCDMTM, anul: 2019, domeniul științific: Tehnologii noi și emergente, valoare: 200794.00, 2019, (TC_14_2019_DFMI)

Data: 28.09.2019

***Cadrul didactic IORDACHE DANIELA MONICA
Semnătura***