Technical University of Cluj-Napoca

Faculty of Industrial Engineering, Robotics and Production Management

Department of Manufacturing Engineering

S.l. dr. ing. Cristina Ștefana Borzan

SCIENTIFIC PAPER LIST

a. The most representative 10 papers

1. E. Sabău, P. Bere, M. Moldovan, I. Petean, **C.-Ş. Miron-Borzan**, Evaluation of novel ornamental cladding resistance, comprised of GFRP waste and polyester binder, within an acid environment, Polymers, 13(3):448, 2021, DOI: 10.3390/polym13030448, **ISI Q1, IF 4.967** - **Corresponding Author**

2. E. Sabău, R. Udroiu, P. Bere, I. Buranský, **C.-Ş. Miron-Borzan**, A Novel Polymer Concrete Composite with GFRP Waste: Applications, Morphology, and Porosity Characterization, Appl. Sci.-Basel, 10(6):2060, 2020, DOI: 10.3390/app10062060, **ISI Q2, IF 2,679**

3. R. Păcurar, P. Berce, A. Petrilak, O. Nemeş, **C. Ş. Miron Borzan**, M. Harničárová, A. Păcurar, Selective Laser Sintering of PA 2200 for Hip Implant Applications: Finite Element Analysis, Process Optimization, and Morphological and Mechanical Characterization, Materials, Vol 14, Issue 15, pp 4240, 2021 https://doi.org/10.3390/ma14154240 **ISI Q2, IF: 3.748**

4. Pacurar, R, Berce, P, Nemes, O, Baila, DI, Stan, DS, Oarcea, A, Popister, F, **Borzan, C**, Maricic, S, Legutko, S, Pacurar, A, Cast Iron Parts Obtained in Ceramic Molds Produced by Binder Jetting 3D Printing-Morphological and Mechanical Characterization, MATERIALS, Vol 14, Issue 16, Article Number 4502, https://doi.org/10.3390/ma14164502 , 2021, **ISI Q2, IF: 3.748**

5. M. Harničárová, J. Valíček, M. Kušnerová, Z. Palková, I. Kopal, **C. Borzan**, M. Kadnár and S. Paulovič, A New Method of Predicting the Structural and Mechanical Change of Materials during Extrusion by the Method of Multiple Plastic Deformations, Materials 2021, Vol 14, Issue 10, 2594, ISSN 1996-1944, , **ISI Q2, IF: 3.748**

6. Mitaľová, Z., Litecká, J., Mitaľ, D., Harničárová, M., Valíček, J., Miron-Borzan, **C.S. Borzan**, M., Destructive Testing Of Wood Plastic Composite, Materiale Plastice Journal, , 57 (2), 2020, 208-214, https://doi.org/10.37358/MP.20.2.5367, **ISI Q4, IF: 0.593 (2020)** - Corresponding Author

7. **Miron-Borzan C.Ş.**, Chezan H., Buciuman C., Sabău E., Study of a customized implant in cranio-maxillofacial surgery, 4th International Conference on Nanotechnologies and Biomedical Engineering, ICNBME, Republic of Moldova, Chisinau, Vol. 77, pp. 379-384,

2019, DOI: 10.1007/978-3-030-31866-6_70 https://doi.org/10.1007/978-3-030-31866-6_70 , **ISI Proceedings**

8. C. Buciuman, L. Hancu, C. Vilau, **C. S. Miron Borzan**, Research Regarding Design and Material for an Electrical Car Charger Shell, MATERIALE PLASTICE, 56, No. 3, 2019, pp. 488-491, WOS:000487764000004, **ISI Q4, IF: 1.517 (2019)**. - **Corresponding Author**

9. J. Kmec, M.Harničárová, **C. Borzan**, M. Borzan, J.Valíček, J. Kříž, M. Kušnerová, Proposal for a method of measurement and control of surface quality in the course of abrasive waterjet cutting of material, MATEC Web of Conferences, Vol. 299, Modern Technologies in Manufacturing (MTeM 2019), Pages 02003, 2019 https://doi.org/10.1051/matecconf/201929902003 ISI Proceedings.

10. Valíček, J., Harničárová, M., Kušnerová, M. , Palková Z., Kopal I., **Borzan C.** , Czán A., Mikuš R., Kadnár M., Duer S., Šepelák V., Stress–strain parameter prediction method for AWJ technology from surface topography. Int J Adv Manuf Technol (2023). https://doi.org/10.1007/s00170-023-11601-z , **ISI Q3, IF: 3.563** (2022).

b. PhD thesis

Title: „Cercetări teoretice şi experimentale privind fabricaţia prin sinterizare selectivă cu laser a implanturilor personalizate din materiale biocompatibile”

Domain: Industrial Engineering

Scientific Coordinator: Prof.dr.ing. Petru Berce

Institution: Technical University of Cluj-Napoca

Defended on: 02 October 2014

Academic title of PhD confered by Order MECT no 3181/06.02.2015.

c. Brevete

d. Books and chapters published

1. P. Berce, N. Bâlc, H. Chezan, D. Leordean, V. Mager, **C. Borzan**, C. Berce – Aplicațiile medicale ale tehnologiilor de fabricație prin adăugare de material (Medical applications of Additive Manufacturing Technologies) Editura Academiei Române, București, 2015, ISBN 978-973-27-2591-7, 280 pages, carte pentru care s-a primit Premiul Academiei Romane, Henri Coanda 2015.

2. M. Borzan, A. Trif, **C. Miron-Borzan**, Scule aschietoare, geometrii, Editura UTPRESS, Cluj-Napoca, 2018, ISBN 978-606-737-327-1, 265 pag.

3. M. Borzan, A. Trif, **C. Miron-Borzan**, “Scule Aschietoare. Materiale”, Editura Tehnica-Info, Chisinau 2019, 245 pag, ISBN 978-9975-63-449-6.

4. A. Trif, M. Borzan, C. Miron-Borzan, “Logistica, Aplicatii WinQSB”, Editura UTPRESS, Cluj-Napoca, 2019, format electronic, ISBN 978-606-737-381-3 https://biblioteca.utcluj.ro/carti-online-cu-coperta.html. 69 pag

5. E.S. Pop, C. Miron-Borzan, s.a. (10 autori), Indrumător pentru practica studenților în atelierul mecanic", Ed. UTPRESS, Cluj-Napoca, ISBN 978-606-737-418-6, 220 pag, 2019

6. Buciuman C.M., Vilau C., Cagáňová D., **Miron-Borzan C**., The Analysis of Different Materials Used for an Electric Car Charger Shell Under the Wind Influence. Chapter In: Advances in Industrial Internet of Things, Engineering and Management. EAI/Springer Innovations in Communication and Computing. Springer, Cham. 2021, https://doi.org/10.1007/978-3-030-69705-1_9, Print ISBN ISBN 978-3-030-69704-4, Online ISBN 978-3-030-69705-1

7. **Borzan C.Ș**, Implanturi personalizate - Fabricație și biocompatibilitate, Tehnica-Info, Chisinau 2022, 231 pag, ISBN 978-9975-63-527-1

8. **C.S Borzan**, Tehnologii de Fabricație - Suport de Curs pentru specializarea „Sisteme și Echipamente Termice", Ed. Ecou Transilvan, Cluj-Napoca, 2022, ISBN 978-606-730-921-8, 330 pag

9. R. Păcurar, **C. Borzan**, E. Guţiu, C. Moldovan, C. Vilău, S. Comşa, C. Cosma, P. Berce, N. Bâlc, M. Simonovic, A. Miltenovic, M. Banic, N. Vitkovic, R. Labudski, F. Gorski, M. Zukowska, F. Sarbinovski, S. Maricic, M. Babic, B. Rabara, P. Kostal, E. Hruskova, BRIGHT e-toolkit manual for digital learning in producing medical parts by 3D printing methods in the context of the pandemic (e-toolkit), Risoprint Publishing House, Cluj-Napoca, 2023, ISBN: 978-973-53-3028-6, 184 pag.

e. Scientific papers ISI/BDI indexed

e1) ISI and ISI Proceedings Scientific papers published:

1. Ceclan VA, Bere P, Borzan M, Grozav S, **Borzan C**, „Development of Environmental Technology for Carbon Fibre Reinforced Materials Recycling", MATERIALE PLASTICE, Volume: 50, Issue: 2, JUN 2013, Pages: 79-83, **Impact Factor 0.463** (http://uefiscdi.gov.ro/userfiles/file/CENAPOSS/rev_rom_isi_14%20iun_2016_factori.pdf) , indexed in WOS, Accession Number: WOS:000320842600002.

2. **Miron-Borzan C.Ș**., M. C. Dudescu, Khalid Abd Elghany, V. Ceclan, P. Berce, Analysis of mechanical proprieties of selective laser sintered polyamide parts obtained on different SLS equipment, Revista de Materiale Plastice, Vol. 52, no. 1, March, 2015, ISSN 0025-5289, **Impact Factor 0.903**, indexed in WOS, Accession Number: WOS:000373966500001.

3. **C. Ş. Miron-Borzan**, M. C. Dudescu, V.Ceclan, A. Trif, Ridzon M., P. Berce, PA 2200 vs. PMMA: Comparison between the mechanical proprieties obtained for the 2 biocompatible materials, Revista de Materiale Plastice, Vol 53, no. 1, 2016, **Impact Factor** (http://www.scijournal.org/impact-factor-of-MATER-PLAST.shtml) **0.778**, indexed in WOS, Accession Number: WOS:000351194900010.

4. D. C. Mada, C.Gasparik, M. Moldovan, **C. S. Miron-Borzan**, A. I. Irimie, D. Cornea, D. Dudea, Campian R. S. , The Effect of a Natural Extract-Based Experimental Bleaching Gel Upon the Colour and Surface Roughness of a Composite Resin - An In Vitro Study, Studia

Universitatis Babes-Bolyai Chemia LXI, 4, 2016 (p. 43 - 52), Q4: **IF 0.244** WOS:000393578800004.

5. M. Kapustova, J.Bilik, M. Sahul, M. Ridzon, **C. S. Miron Borzan**, Experimental Research Regarding the Plastic Flow of Aluminium Alloy EN AW-7075 in Closed-die Forging Without Flash, Revista de Materiale Plastice, Vol 54, No.2, 2017, p. 326-330 WOS:000408702100029 **ISI Q4, IF: 1.248**.

6. C. Cosma, N. Balc, M. Moldovan, L. Morovic, P. Gogola, **C. Miron-Borzan**, Post-processing of customized implants made by laser beam melting from pure Titanium, Journal of Optoelectronics and Advanced Materials Vol. 19, No. 11 - 12, November – December 2017, p. 738 – 747, ISSN: PRINT: 1454 – 4164, ON-LINE: 1841 – 7132, **ISI Q4, IF: 0.45** (2017).

7. **C. S. Miron Borzan**, M.Moldovan, V. Bocanet, Evaluation of Surface Modification of PA 2200 Parts Made by Selective Laser Sintering Process, REVISTA DE CHIMIE, volume 2018, April, ISSN 2537-5733, **IF 1,605** (2018) WOS:000433223000027.

8. Ceclan VA, Balc N, Grozav S, Bere P, **Borzan CS**, „Quality of the hydroformed tubular parts", Conference on Interdisciplinary Research in Engineering Steps towards Breakthrough Innovation for Sustainable Development (INTERIN 2013), Advanced Engineering Forum, Volume: 8-9, 2013, Pages: 215-224, DOI: 10.4028/www.scientific.net/AEF.8-9.215, indexed in WOS, Accession Number: WOS:000323184000024.

9. **C. S. Miron-Borzan**, M.C. Dudescu, P. Berce, Bending and compression tests for PA 2200 parts obtained using Selective Laser Sintering method, The 4th International Conference on Computing and Solutions in Manufacturing Engineering 2016 – CoSME'16, MATEC Web Conf., Volume 94, 2017, DOI: 10.1051/matecconf/20179403010

10. **CS Miron-Borzan**, E Sabau, M Mera, P Berce, Research Regarding the Manufacturing through AM Technologies of an Implant for Cervical Disc Replacement, MATEC Web of Conferences, Volume 137 Modern Technologies in Manufacturing (MTeM 2017 - AMaTUC), 02008, ISBN: 978-2-7598-9027-9, 2017 https://doi.org/10.1051/matecconf/201713702008.

11. M Mera, **CS Miron-Borzan**, Research Regarding the Influence of Execution, Assembly and Functioning Errors on the Teeth Profile Modification of Spur Gear in Front Plane, MATEC Web of Conferences Volume 137 Modern Technologies in Manufacturing (MTeM 2017 - AMaTUC), 01007, ISBN: 978-2-7598-9027-9, 2017, https://doi.org/10.1051/matecconf/201713701007.

12. M. Mera, **C. Miron-Borzan**, Research regarding a method for determining the parameters value of modifying spur gears teeth profile in longitudinal plane, Acta Technica Napocensis Series-Applied mathematics mechanics and engineering, Vol. 61, Issue 2, p. 175-180, 2018.

13. R. Cep, L.Cepova**, C. S. Borzan**, J. Kasal, M. Sadilek, D. Sokova, M. Hatala, J.Petru, D. Stancekova, M. Pagac, J. Hajnys, O. Mizera, Influence of Coolant Pressure Size on Surface Roughness when Stainless Steel Machining, MATEC Web of Conferences, Vol. 299, Modern Technologies in Manufacturing (MTeM 2019), Pages 04002, 2019 https://doi.org/10.1051/matecconf/201929904002 ISI Proceedings.

14. M. Kapustova, R. Kolenak, R. Sobota, J. Bilik, V. Simna, M.Ridzon, **C. S. Miron Borzan**, Plastic Flow Verification in a Tool Cavity for Production of Test Sample for Wettability Solders Measurement, Revista de Chimie, Volume 71, Issue 1, pp. 107-112 2020, **IF** 1.605 https://doi.org/10.37358/RC.20.1.7820

15. A.Pacurar, R. Pacurar, B. Erőss, **C. Miron-Borzan**, Optimal Tool Path Strategies For Decreasing The Manufacturing Time Of One Thermoforming Mold, Acta Technica Napocensis-Series: Applied Mathematics, Mechanics, and Engineering, Volume 64, Issue 1, 2021

e2) International databases published papers

1. **C.Ş. Miron-Borzan**, A.I. Popan, V.A. Ceclan, A. Popescu and P. Berce, Custom Implants: Manufacturing Principles and Determination of Psychological Price, Trans Tech Publications, Switzerland, Applied Mechanics and Materials, vol 808, , October 2015, p. 169-174, ISBN -13: 978-3-03835-653-0.

2. A.I. Popan, N. Bâlc, I.A. Popan, N. Panc and **C.Ş. Miron-Borzan**, Using Simulation to Improve the Quality of the Metallic Industrial Components Made by Rapid Casting, Trans Tech Publications, Switzerland, Applied Mechanics and Materials, vol 808, October 2015, p. 187-192, ISBN -13: 978-3-03835-653-0.

3. V.A. Ceclan, I.A. Popan, S. Grozav, **C.Ş. Miron-Borzan** and I. Kuric, The Analyses of Working Parameters for a 3D Complex Part Manufacturing by CNC Machine, Trans Tech Publications, Switzerland, Applied Mechanics and Materials, vol 808, October 2015, p. 286-291, ISBN -13: 978-3-03835-653-0.

4. A. Popescu, L. Hancu, P. Bere and **C.Ş. Miron-Borzan**, Experimental and Theoretic Research Regarding Extrusion Optimization for Reinforced Polyamide (Pa 6.6 – 10 % GF), Trans Tech Publications, Switzerland, Applied Mechanics and Materials, vol 808, October 2015, p. 125-130, ISBN -13: 978-3-03835-653-0.

5. Ceclan, V.A., Bâlc, N., Miron, A.V., **Borzan C. Ş**., Popan A., "Numerical simulation of the tube bending process and validation of the results". Academic Journal of Manufacturing Engineering, vol. 9, ISSUE 3/2011, pg. 32-37. http://eng.upt.ro/auif/Lucrari_PDF_2011_3/32.Articol_AJME_Ceclan.pdf

6. **Borzan C.Ş.**, Berce P., Leordean D., Miron A., Luca A., Morovic L., "Study of a tridimensional model of a custom implant in Cranio-Maxillofacial Surgery", Academic Journal of Manufacturing Engineering, Vol 11, ISSUE 2, 2013, pg 38-43. ISSN 1583 – 7904 http://eng.upt.ro/auif/Lucrari_PDF_2013_2/Borzan.pdf

7. Miron A.V., Balc N., Popan A., **Borzan C.Ş.**, Bere P., "Studies on water jet cutting of 2D parts made from carbon fiber composite materials", Academic Journal of Manufacturing Engineering, Vol 11, ISSUE 2, 2013, pg 87-92, ISSN 1583 – 7904, http://eng.upt.ro/auif/Lucrari_PDF_2013_2/Miron.pdf

8. Luca A., Balc N., Popan A., **Borzan C.Ş.**, "Research to improve the surface quality of metal parts made by invest casting", Academic Journal of Manufacturing Engineering, Vol 11,

ISSUE 2, 2013, pg 74-79, ISSN 1583 – 7904. http://eng.upt.ro/auif/Lucrari_PDF_2013_2/Luca.pdf

9. **Borzan C. Ş.**, Berce P., Chezan H., Sabău E., Radu S. A., Ridzon M., "Physico-Mechanical Properties Characterization of the Parts from PA 2200 Manufactured by Selective Laser Sintering Technology", Academic Journal of Manufacturing Engineering, Vol. 11, ISSUE 4 / 2013, pg 108-113, ISSN: 1583-7904, http://eng.upt.ro/auif/Lucrari_PDF_2013_4/20-Borzan%20CS.pdf

10. Ceclan V., Grozav S., Sabău E., Popan A., **Borzan C. Ş.**, "Structural Analysis of Tubes Hydroforming", Academic Journal of Manufacturing Engineering, Vol. 11, ISSUE 3 / 2013, pg 56-59, ISSN: 1583-7904, http://eng.upt.ro/auif/Lucrari_PDF_2013_3/11-Ceclan%20V..pdf

11. Radu S. A., Popescu A., Pacurar A., Pacurar R., **Borzan C. Ş.,** "Research Considering the Fabrication of Resin Parts Using Silicone Rubber Molds", Academic Journal of Manufacturing Engineering, Vol. 11, ISSUE 3 / 2013, pg 92-95, ISSN: 1583-7904, http://eng.upt.ro/auif/Lucrari_PDF_2013_3/19-Radu%20S..pdf

12. Sabau E., Bâlc N., Bere P., **Borzan C. Ş.**, Ceclan V., "Experimental Study on Mechanical Behavior of Glass Fiber Reinforced Polymer Composites Under Axial Compression", Academic Journal of Manufacturing Engineering, Vol. 11, ISSUE 3 / 2013, pg 110-113, ISSN: 1583-7904, http://eng.upt.ro/auif/Lucrari_PDF_2013_3/23-Sabau%20E..pdf

13. S. C. Cosma, N. Balc, D. Leordean, M. Moldovan, M. Dudescu, **C. Borzan**, Customized medical applications of Selective Laser Melting manufacturing, Academic Journal Of Manufacturing Engineering, Vol. 13, ISSUE 1/2015, p. 24-32, ISSN 15837904.

14. S.C. Cosma, N. Balc, M. Moldovan, **C.Ș. Miron-Borzan**, Surface treatments applied on titanium implants, Ovidius University Annals of Chemistry. Volume 26, Issue 1, Pages 41–48, June 2015, p.41-48, ISSN (Online) 2286-038X, DOI: 10.1515/auoc-2015-0008.

15. C. Ș. Miron-Borzan, **C. Borzan**, L.Vincze, C. Cosma, A. Trif - Study on Knowledge and Acceptability of Custom Implants Manufactured by Selective Laser Sintering Method from Biocompatible Materials with Human Body, Journal Plus Education, Volume XII A, Special ISSUE/ 2015, pag. 79-85.

16. A. Miron, M. Arghir, N. Balc, A. Popan, **C. Miron-Borzan**, Determination of cutting head vibrations during abrasive watter jet cutting process, Acta Technica Napocensis, Applied Mathematics, Mechanics and Engineering Series, Vol 58, No 3 (2015), pg. 431-434, ISSN 1221-5872. Available at: http://www.atna-mam.utcluj.ro/index.php/Acta/article/view/705

17. Borzan C., Mocean F., **Borzan C. Ş.**, Vincze L., "A Study on the Level of Stress in a Health Unit". Proceedings of the Applied Computing Conference 2009 [ACC, 09]; "Proceedings of the 11th WSEAS International Conference on Mathematical Methods and Applied Computing [MMACTEE,09]", Vol. II, Vouliagmeni, Athens, Greece, sept. 28-30, 2009, Mathematics and Computers in Science and Engineering, A Series of Reference Books and Textbooks, ISBN: 978-960-474-124-3, ISSN:1790-2769, pg. 520-524, 2009.

18. M. Mera, **C. Miron-Borzan**, Research Regarding The Stiffness Determination Of The Spur Gears Teeth, Academic Journal of Manufacturing Engineering, Isue 4, vol 16, ISSN 1583-7904, p. 134-139, 2018.

19. E. Sabau, A. Popescu, **C.-Ş. Miron-Borzan**, N. Panc, Mathematical Regression Model of Unidirectional Glass Fibre Reinforced Polymer Composites, Academic Journal Of Manufacturing Engineering, Vol. 17, ISSUE 3/2019.

20. **C. Miron-Borzan**, E. Sabău, C. Vilău, V. Ceclan, A Comparative Study Using Finite Element Analyses For Cervical Disc Implants, Academic Journal Of Manufacturing Engineering, VOL. 18, ISSUE 2 / 2020, pp. 5-11.

21. P. Berce, A. Sadeh, R. Păcurar, **C. Miron-Borzan**, Rapid Product Development Using Additive Manufacturing Technologies, Ro. J. Techn. Sci. − Appl. Mechanics, Vol. 64, No 3, P. 187−205, Bucharest, 2019.

22. E. Sabău, A. Trif, **C.-Ş. Miron-Borzan**, A. Popescu, Numerical Simulation Of Flexural Behavior Of Glass Fiber Reinforced Polymer Composites, Academic Journal Of Manufacturing Engineering, Volume 19, Issue 1, 2021.

23. Vitković, N., Trajanović, M., Aranđelović, J., Păcurar, R., **Borzan, C**. (2022). Contact Surface Model Parameterization of the Extra-Articular Distal Humerus Plate. In: Gorski, F., Rychlik, M., Păcurar, R. (eds) Advances in Manufacturing III. MANUFACTURING 2022. Lecture Notes in Mechanical Engineering. Springer, Cham. https://doi.org/10.1007/978-3-030-99769-4_7

f. Conferences and journals published papers (not indexed)

1) **Borzan C.Ş**., Bacali L., Bojan I., Rus D., "Marketing research for student education in Engeenering and management". KSI Transactions on Knowledge Society, Bulgaria, ISSN 1313-4787, vol.4, dec. 2009, pg. 5-8, II International Science Conference Knowledge Society and III International Science Conference for Young researchers "Technical Science and Industrial Management", Nessebar, Bulgaria, 2-4 September 2009.

2) **Borzan C. Ş**., Bacali L., Trif C. M., "The determination of the psychological price", KSI Transactions on Knowledge Society, II International science conference "Knowledge Society", ISSN 1313-4787, vol. 4, 2009, pg. 9–10, II International Science Conference Knowledge Society and III International Science Conference for Young researchers "Technical Science and Industrial Management", 2-4 September 2009, Nessebar, Bulgaria.

3) Borzan M., Muresan M., Trif A., **Borzan C.S**., "The Influence of the Sharpening Angle to the Hob Cutting Precision". MTeM Proceedings for 2009 & Proceedings of the 9th International Conference „Modern Technologies in Manufacturing", 8th – 10th October Cluj-Napoca, ISBN 973-7937-07-04, p.21-22.

4) **Borzan, C.Ş**., Berce, P., Miron, A.V., Hodor, A.I., Ceclan, V.A., "Some considerations about manufacturing of custom implants from biocompatible materials", 13th International Conference „Automation in Production Planning and Manufacturing", Zilina – Turcianske Teplice 2012, ISBN 978-80-89276-35-6, pg 32-35.

5) Miron, A.V., Bâlc, N., **Borzan, C.Ş**., Ceclan, V.A., Hodor, A.I., "Numerical simulation of the superplastic forming process", Journal 13th International Conference „Automation in

Production Planning and Manufacturing“, Zilina – Turcianske Teplice 2012, ISBN 978-80-89276-35-6, pg 166-169.

6) Hodor, A.I., Berce, P., **Borzan, C.Ş**., Miron, A.V., “Manufacture molds for small and medium series production from composite materials reinforced whith glass fiber”, 13th International Conference „Automation in Production Planning and Manufacturing“, Zilina – Turcianske Teplice, 2012, ISBN 978-80-89276-35-6, pg 83-86.

7) **Borzan C.Ş.,** Berce P., Miron A.V., Grozav S., Ceclan V., “An overview about the actual study of the use of PEEK in medical devices”, 14th International Conference „Automation in Production Planning and Manufacturing“, Zilina – Turcianske Teplice 2013, ISBN 978-80-89276-41-7, pg 15-18.

8) Ceclan V., Grozan S., **Borzan C. Ş**., Popan A., Maries M., “Numerical Simulation of bending and hydroforming processes of tubular parts”, 14th International Conference „Automation in Production Planning and Manufacturing“, Zilina – Turcianske Teplice 2013, ISBN 978-80-89276-41-7, pg 19-23.

9) **Borzan C.Ş.**, Berce, P., Ceclan V., Grozav S., Luca A., Research regarding achiving a sillicone rubber mould for a custom cranioplasty, 15th International Conference „Automation in Production Planning and Manufacturing“, Zilina – Oscadnica, Slovak Republik, 2014, ISBN 978-80-554-0878-1, pg 28-32.

10) Ceclan V., Grozav S., Kuric I., **Borzan, C.Ş**., Popescu A, Trif, A., Research regarding the mechanical characteristic hydrofoming tubular specimens, 15th International Conference „Automation in Production Planning and Manufacturing“,Zilina – Oscadnica, Slovak Republik, 2014, ISBN 978-80-554-0878-1 pg. 51-54.

11) Luca A., Balc N., Grozav S., Popan A., **Borzan C.Ş.**, Manufacture of metallic parts by vacuum casting process, 15th International Conference „Automation in Production Planning and Manufacturing“, Zilina – Oscadnica, Slovak Republik, 2014, ISBN 978-80-554-0878-1, pg 108-111.

12) Miron A. V., Balc N., Popan A., Grozav S., **Miron-Borzan C.S**., Research on abrasive waterjet machining of composite materials, 16th International Conference „Automation in Production Planning and Manufacturing“, Zilina – Oscadnica, Slovak Republik, 2015, ISBN 978-80-89276-47-9, pg 83-87.

13) Miron A. V., Borzan M., Ceclan V., **Miron-Borzan C.S**., Popescu A. Case study of simulation for a superplastic forming, 16th International Conference „Automation in Production Planning and Manufacturing“, Zilina – Oscadnica, Slovak Republik, 2015, ISBN 978-80-89276-47-9, pg 88-93.

14) Ceclan V., Grozav S., Borzan M., Kuric I., **Miron-Borzan C.S**., Research regarding bending cupper tubes, 16th International Conference „Automation in Production Planning and Manufacturing“, Zilina – Oscadnica, Slovak Republik, 2015, ISBN 978-80-89276-47-9, pg 25-28.

15) Popescu A., Kuric I., **Miron-Borzan C.S**, Maries M., Miron A., Experimental research regarding extrusion reinforced polyamide, 16th International Conference „Automation in

Production Planning and Manufacturing“, Zilina – Oscadnica, Slovak Republik, 2015, ISBN 978-80-89276-47-9, pg 123-127.

Date

04.12.2023

Signature

Borzan Cristina Ștefana