

*Prof. univ. abil. dr. ing. Camil LANCEA*

**Lista de lucrări**

Titlul tezei de doctorat: *Prelucrarea prin frezare a suprafețelor 3D pe MUCN –uri*

Titlul tezei de abilitare: *Creșterea eficienței fabricației prin crearea unor sisteme software dedicate și soluții pentru valorificarea superioară a materialelor*

Domeniul tezelor *Inginerie Industrială*

**10 LUCRĂRI RELEVANTE**

1. Lancea, C., Campbell, I., Chicos, L.-A., Zaharia, S.-M., *Compressive Behaviour of Lattice Structures Manufactured by Polyjet Technologies*, Polymers Journal, 2020, 12, 2767;  
Factor de impact: 3.426, (Q1), <https://doi.org/10.3390/polym12122767>
2. Lancea, C., Chicos, L. A., Zaharia, S. M., Pop, M. A., Pascariu, I. S., Buican, G. R., Stamate, V. M., *Simulation, Fabrication and Testing of UAV Composite Landing Gear*, Applied Sciences Journal, 2022, Volume 12, Issue 17, 8598,  
Factor de impact: 2.838, (Q2), <https://doi.org/10.3390/app12178598>
3. Lancea, C., Chicos, L., Zaharia S. M., Pop M. A., Semenescu A., Florea B., Chivu, O., *Accelerated Corrosion Analysis of AISi10Mg Alloy Manufactured by Selective Laser Melting (SLM)*, Revista de Chimie Journal, ISSN:25375733, No. 4 / 2018, București,  
Factor de impact: 1.605, (Q3), <https://doi.org/10.37358/RC.18.4.6240>



4. Lancea, C., Chicos, L.-A., Zaharia S. and Pop M., *Microstructure and micro-hardness analyses of titanium alloy Ti-6Al-4V parts manufactured by selective laser melting*, MATEC Web of Conferences, eISSN: 2261-236X, Vol. 94, 2017, 03009,  
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5. Zaharia, S. M., Pop, M. A., Chicos, L. A., Buican, G. R., Lancea, C., Pascariu, I. S., Stamate, V. M., *Compression and Bending Properties of Short Carbon Fiber Reinforced Polymers Sandwich Structures Produced via Fused Filament Fabrication Process*, Polymers Journal, 2022, Volume 14, Issue 14, 2923,  
Factor de impact: 4.967, (Q1), <https://doi.org/10.3390/polym14142923>
6. Chicos, L.-A., Zaharia S.M., Lancea, C., Pop M., et. all, *Concentrated solar energy used for heat treatment of Ti6Al4V alloy manufactured by selective laser melting*, Solar Energy Journal, Volume 173, 2018, pp. 76-88,  
Factor de impact: 4.674, (Q1), <https://doi.org/10.1016/j.solener.2018.07.069>
7. Zaharia, S.M., Chicos, L. A., Lancea, C., Pop M.A., *Effects of Homogenization Heat Treatment on Mechanical Properties of Inconel 718 Sandwich Structures Manufactured by Selective Laser Melting*, Metals Journal, 2020, Vol. 10, Issue 5,  
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8. Chicos, L. A., Pop, M. A., Zaharia, S. M., Lancea, C., Buican, G. R., Pascariu, I. S., Stamate, V. M., *Fused Filament Fabrication of Short Glass Fiber-Reinforced Polylactic Acid Composites: Infill Density Influence on Mechanical and Thermal Properties*, Polymers Journal, 2022, Volume 14, Issue 22, 4988,  
Factor de impact: 4.967, (Q1), <https://doi.org/10.3390/polym14224988>
9. Buican, G. R., Zaharia, S. M., Pop, M. A., Chicos, L. A., Lancea, C., Stamate, V. M., Pascariu, I. S., *Fabrication and Characterization of Fiber-Reinforced Composite Sandwich Structures Obtained by Fused Filament Fabrication Process*, COATINGS Journal, Volume: 11, Issue: 5, 2021, Article Number: 601;  
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10. Chicos, L. A., Pop, M. A., Zaharia, S. M., Lancea, C., Buican, G. R., Pascariu, I. S., Stamate, V. M., *Infill Density Influence on Mechanical and Thermal Properties of Short Carbon Fiber-Reinforced Polyamide Composites Manufactured by FFF Process*, Materials Journal, 2022, Volume 15, Issue 10, 3706,  
Factor de impact: 3.748, (Q3), <https://doi.org/10.3390/ma15103706>





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### I. CĂRȚI/ MANUALE/ MONOGRAFII ÎN EDITURI NAȚIONALE RECUNOSCUTE

1. Lancea, C., *Tehnologia informației și a comunicării. Aplicații Internet*, Editura MATRIX ROM, 2021, ISBN 978-606-25-0658-2, 101 pagini;
2. Lancea, C., *Proiectarea inovativă a produselor industriale*, Editura MATRIX ROM, 2021, ISBN: 978-606-25-0640-7, 209 pagini;
3. Lancea, C., Chicoș, L.-A., *Proiectare asistată de calculator utilizând PRO/E Teorie și aplicații*, Editura MATRIX ROM, 2020, ISBN 978-606-25-0510-3, 152 pagini;
4. Lancea, C., *Concepție și fabricație asistate de calculator*, Editura Universității TRANSILVANIA din Brașov, 2005, ISBN 973-635-442-3, 224 pagini;
5. Lancea, C., *Prelucrarea prin frezare a suprafețelor 3D pe MUCN-uri*, Editura Universității Transilvania din Brașov, 2002, 277 pagini;
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11. Zaharia, S.M., Chicos, L. A., Lancea, C., Pop M.A., *Effects of Homogenization Heat Treatment on Mechanical Properties of Inconel 718 Sandwich Structures Manufactured by Selective Laser Melting*, Jurnalul Metals 2020, Volume 10, Issue 5, 645, <https://doi.org/10.3390/met10050645>;
12. Chicos, L. A., Campbell, I., Zaharia, S.M., Pop M.A., Lancea, C. et. all, *Experimental and Finite Element Analysis of the Open-Cells Porous Materials Subjected to Compression Mechanical Loading*, revista: Materiale Plastice, ISSN 0025 / 5289, Volume 56, Issue 2, 2019, pp. 421-425, <https://doi.org/10.37358/MP.19.2.5199>;
13. Lancea, C., Chicos, L., Zaharia S. M., Pop M. A., Semenescu A., Florea B., Chivu, O., *Accelerated Corrosion Analysis of AISi10Mg Alloy Manufactured by Selective Laser Melting (SLM)*, Revista de Chimie, ISSN:25375733, No. 4 / 2018, Bucuresti, 2018, pp. 975-981, <https://doi.org/10.37358/RC.18.4.6240>;
14. Zaharia S.M., Lancea, C., Chicos, L.-A., Pop M., et. all, *Mechanical Properties and Corrosion Behaviour of 316L Stainless Steel Honeycomb Cellular Cores Manufactured by Selective Laser Melting*, Transactions of FAMENA, ISSN1333-1124, issue 4, volume 41, No.4, Veljača 2018. pp. 11-24, <https://doi.org/10.21278/TOF.41402>;
15. Chicos, L.-A., Zaharia S.M., Lancea, C., Pop M., et. all, *Concentrated solar energy used for heat treatment of Ti6Al4V alloy manufactured by selective laser melting*, Solar Energy Journal, Volume 173, 2018, pp. 76-88, <https://doi.org/10.1016/j.solener.2018.07.069>;



16. Zaharia, S.M., Pop, M.A, Chicos, L.A., Lancea, C., Semenescu, A., Florea, B., Chivu, O.R., *An investigation on the reliability and degradation of polycrystalline silicon solar cells under accelerated corrosion test*, revista: Materiale Plastice, ISSN 0025 / 5289, Volume 54, Issue 3, 2017, pp. 466-472, <https://doi.org/10.37358/MP.17.3.4872>;

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18. Lancea, C., Oancea, Gh., Chicoș, L.A., Stamate, V., Software Package for Improving the Milling Process of 3D Parts, Proceedings of the 10th WSEAS International Conference on APPLIED COMPUTER SCIENCE (ACS'10), Iwate Prefectural University, Published by World Scientific and Engineering Academy and Society (WSEAS) Press, pp. 234-237, (ISSN: 1792-4863, ISBN: 978-960-474-231-8 – ISI Proceedings ), Iwate, Japonia, 2010,  
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19. Chicos, L. A., Oancea, Gh., Lancea, C., Băncila D., Software System of Integrated and Simultaneous Engineering Proceedings of the 10th WSEAS International Conference on APPLIED COMPUTER SCIENCE (ACS'10), Iwate Prefectural University, Published by World Scientific and Engineering Academy and Society (WSEAS) Press, pp. 238-241, (ISSN: 1792-4863, ISBN: 978-960-474-231-8 – ISI Proceedings ), Iwate, Japonia, 2010,  
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20. Oancea, Gh., Chicos, L. A., Lancea, C., Cost Estimating Method of Industrial Product Implemented in WinCOST Software System, 3rd WSEAS International Conference on ENGINEERING MECHANICS, STRUCTURES, ENGINEERING GEOLOGY (EMESEG '10), International Conference on Geography and Geology 2010 (WORLDGEO '10), Published by WSEAS Press, pp. 148-151, ISSN: 1792-4294, ISBN: 978-960-474-203-5, Corfu Island, Greece July 22-24, 2010,  
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21. **Lancea, C.**, Oancea, Gh., Chicos, L. A., Stamate, V., Simultaneous Engineering within CNC Turning of Adapting Pipe Parts (2009). Annals of DAAAM for 2009 & Proceedings of the 20th International DAAAM Symposium, 25-28th November 2009, Volume 20, No.1, pp. 229-230, ISBN 978-3-901509-70-4, ISSN 1726-9679, Editor B. Katalinic, Published by DAAAM International, Vienna, Austria, 2009,  
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22. Chicos, L.A., Oancea, Gh., **Lancea, C.**, Vasiloni, A.M., Simultaneous Approach of CAD and CAM Technologies using Constructive-Technological Entities, Annals of DAAAM for 2009 & Proceedings of the 20th International DAAAM Symposium, 25-28th November 2009, Volume 20, No.1, pp.377-378, ISBN 978-3-901509-70-4, ISSN 1726-9679, Editor B. Katalinic, Published by DAAAM International, Vienna, Austria, 2009,  
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24. Oancea, Gh., Chicos, L.A., **Lancea, C.**, Intelligent AutoCAD Objects Used for CAD/CAPP/CAM Systems, Proceedings of the 1st WSEAS International Conference on Manufacturing Engineering, Quality and Production Systems, Brasov, Romania, Published by World Scientific and Engineering Academy and Society (WSEAS) Press, Vol.2, pp. 401-405, (ISSN 1790-2769 – ISI Proceedings), Brasov, Romania, 2009,  
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#### **V. ARTICOLE PUBLICATE ÎN REVISTE ȘI ÎN VOLUMELE UNOR MANIFESTĂRI ȘTIINȚIFICE, INDEXATE ÎN ALTE BAZE DE DATE INTERNAȚIONALE**

1. Lancea, C., Pop, M. A., Zaharia, S. M., Chicos, L. A., Lancea, C., Stamate, V., Buican, G. R., Pascariu, I. S., *Effect of the infill patterns on the mechanical properties of the carbon fiber 3D printed parts*, IOP Conference Series: Materials Science and Engineering, 2022, 1235, 012006

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2. Buican, G. R., Zaharia, S. M., Pascariu, I. S., Chicos, L. A., Lancea, C., Pop, M. A., Stamate, V. M., *Development and Implementation of an Automated Pilot System for a Fixed-Wing Twin-Engine Airplane UAV*, Scientific Research & Education in the Air Force – AFASES, 2022, Vol. 2022, p151-160. 10p., ISSN: 2247-3173

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3. Buican, G. R., Zaharia, S. M., Pascariu, I. S., Chicos, L. A., Lancea, C., Pop, M. A., Stamate, V. M., *Mission Management for an Automated Pilot System Mounted on A Fixed-Wing Twin-Engine Airplane UAV*, Scientific Research & Education in the Air Force – AFASES . 2022, Vol. 2022, p161-166. 6p, ISSN: 2247-3173

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5. **Lancea, C.**, Zaharia S., Pop M. and Buican G., The heat treatment influence on microstructure and mechanical properties of TiAl6V4 parts manufactured by SLM, IOP Conference Series: Materials Science and Engineering, Volume 1009, 2021, 012029  
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11. **Lancea, C.**, Stamate, V., Chicos, L.A., Oancea, G., CAD System for Modeling the Physiognomic Surface of the Side Group Teeth, Annals of DAAAM for 2011 & Proceedings of the 22nd International



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**VI. ARTICOLE IN EXTENSO ÎN VOLUMELE UNOR MANIFESTĂRI ȘTIINȚIFICE NAȚIONALE SAU INTERNAȚIONALE NEINDEXATE**

1. Lancea, C., CNC Milling of Spiral Shape Contours Using FACS-15 Software System, Tehnologia Inovativa, pp. 10-16, ISSN 2248 - 0420; ISSN-L 2248 - 0439, Anul 67, Nr. 4 , 2015,  
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2. Lancea, C., Stamate, V., CAD-CAM Solutions for CNC Milling of 3d Surfaces using FASC-14 Software System, Tehnologia Inovativa, pp. 98-104, ISSN 2248 - 0420; ISSN-L 2248 - 0439, Anul 66, Nr. 3-4, 2014 pp. 98-105, ISSN 2248 - 0420  
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6. Oancea, Gh., Pârv, L., Oancea, C., Lancea, C., The WINCOST Software used for Cost Estimating of Industrial Products with High Level of Customization, Proceeding of the 12th International Conference on Tools ICT-2007, University of Miskolc, 6-8 sept, Miskolc, Ungaria, 2007, p.381-386, ISSN:1215-0851  
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10. Lancea, C., Ivan N. V., Chicoș L. A., Oancea, Gh. Auxiliary Time Determining Software for Gear-Cutting Operations, The 8th International Conference Modern Technologies in Manufacturing Mtem-2007, 3-6 oct. 2007, Universitatea Tehnică din Cluj-Napoca, p.247-250, ISBN 973-9087-83-3  
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