

## LISTA

### lucrărilor științifice în domeniul disciplinelor din postul didactic

#### A – Teza de doctorat

„Contributii privind implementarea sistemelor de mentenanta computerizata”

Conducător științific: Acad.Prof.dr.ing. Csaba Gyenge

Universitatea Tehnică din Cluj-Napoca

Suștinere publică: 24 Octombrie 2011

#### B – Cărți și capitole în cărți publicate

##### **B1.Cărți**

1. Fratila Domnita, Radu, A., **Păcurar Ancuta**, Pacurar, R., Contiu, G. Panc, N., Pop, G., Tehnologii de Fabricatie. Indrumator pentru lucrari de laborator. UT-PRESS, Cluj Napoca, 2011, pag.170, ISBN 978-973-662-626-5.
2. Csaba Gyenge, **Ancuța Păcurar**, Nicolae Bâlc, Răzvan Păcurar, Tehnologii și echipamente de asamblare, Editura Tehnică Info Chișinău, 2015, 300 pages., ISBN 978-9975-63-383-3.
3. **Ancuța Păcurar**, Cercetari privind metodele de mentenanta, Editura Risoprint, Cluj-Napoca, 2021, pag.230, eBook (PDF) ISBN 978-973-53-2710-1.
4. **Ancuța Păcurar**, Tehnologii de asamblare - Îndrumator de laborator,Editura Risoprint, Cluj-Napoca, 2021, pag.70, eBook (PDF) ISBN 978-973-53-2711-8.

##### **B2.Capitole de carte**

1. Răzvan Pacurar, **Ancuța Păcurar**, capitolul “Applications of the Selective Laser Melting Technology in the Industrial and Medical Fields”, publicat in „New Trends in 3D Printing”, editata de: dr. Igor V Shishkovsky, Open-access book, IN-Tech Publishing House, Rijeka, Croatia, 2016, 26 pages, ISBN 978-953-51-4668-1.
2. **Ancuța Păcurar**, capitolul “Applications of Design for Manufacturing and Assembly”, publicata în “Applications of Design for Manufacturing and Assembly”, IN-Tech Publishing House, Rijeka, Croatia, 2019, pag.5, DOI: 10.5772/intechopen.75475, ISBN: 978-1-78984-936-3, Print ISBN: 978-1-78984-935-6, eBook (PDF) ISBN: 978-1-83881-825-8.

##### **B.3. CARTI ȘTIINȚIFICE INTERNAȚIONALE PUBLICATE CA ȘI EDITOR**

1. **Ancuța Păcurar**,“ Applications of Design for Manufacturing and Assembly”, editata de Ancuța Păcurar, published by IN-Tech Publishing House, Rijeka, Croatia, 2019, pag.90, DOI: 10.5772/intechopen.75475, ISBN: 978-1-78984-936-3, Print ISBN: 978-1-78984-935-6, eBook (PDF) ISBN: 978-1-83881-825-8.

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## **C – Lucrări indexate ISI/BDI publicate**

### **C1) Articole / studii publicate în reviste de specialitate de circulație internațională recunoscute (cotate ISI)**

1. **A. Costea**, Olimpia Ros, Csaba Gyenge, "Some Aspects Regarding The Application Of The Predictive Maintenance Procedure For Paper Industry", Proceedings of The 14<sup>th</sup> International Conference - Modern Technologies, Quality and Innovation - New face of TMCR ModTech, Slanic Moldova, pag. 235-238, ISSN-2066-3919, **2010**.
2. R. Păcurar, **A. Păcurar**, P. Berce, N. Bâlc, O. Nemeș, "Porosity change by resin impregnation in structures obtained by selective laser sintering technology" in Studia Universitatis Babes-Bolyai Chemia, vol. 57, no. 3, pp. 5-13, **2012**.
3. **Ancuta Pacurar**, Csaba Gyenge, Annamaria Raza, Experimental Research Regarding The Application Of The Predictive Maintenance Procedure Within Paper Industry, Acta Technica Napocensis Cluj-Napoca, Applied Mathematics and Mechanics, Vol.55, ISSUE I, **2012**, Cluj-Napoca, pag. 215-220, ISSN 1221-5872
4. R. Păcurar, **A. Păcurar**, N. Bâlc, A. Petrilak, L. Morovic, "Estimating the Life-Cycle of the Medical Implants Made by SLM Titanium-Alloyed Materials Using the Finite Element Method", in Innovative manufacturing engineering, vol. 371, pp. 478-482, **2013**.
5. R. Păcurar, **A. Păcurar**, A. Petrilak, N. Bâlc, "Finite Element Analysis to Predict the Mechanical Behavior of Lattice Structures Made by Selective Laser Melting Technology", Applied Mechanics and Materials vol. 657, pp. 231-235, **2014**.
6. R. Păcurar, **A. Păcurar**, „Finite Element Analysis to Improve the Accuracy of Parts Made by Stainless Steel 316L Material Using Selective Laser Melting Technology”, Applied Mechanics and Materials, volume 657, pp. 236-240, **2014**.
7. R. Păcurar, **A. Păcurar**, N. Bâlc, „Research on the mechanical behaviour of an airplane component made by selective laser melting technology”, MATEC Web of Conferences, Vol. 94, **2017**
8. R. Păcurar, **A. Păcurar**, A. Petrilak, „Finite Element Analysis to determine the optimum contact pressure between the components of a hip implant made by using the Selective Laser Sintering and the Selective Laser Melting Technologies”, MATEC Web of Conferences Vol. 137, DOI: 10.1051/mateconf/201713702010, **2017**
9. **A. Păcurar**, R. Păcurar, E. Beata, F. Popișter, C. Oțel, „Decreasing of the manufacturing time for a thermoforming mold by applying the DFM principles”, MATEC Web of Conferences vol. 137, 01008 (2017) <https://doi.org/10.1051/mateconf/201713701008>, MTeM - AMaTUC **2017** .
10. Pacurar, Razvan; **Pacurar, Ancuta**; Petrilak, Anna, The influence of build orientation on the mechanical properties of medical implants made from PA 2200 by Selective Laser Sintering, The 21 Innovative Manufacturing Engineering & Energy International Conference, vol 112, May 24-27, 2017, DOI: 10.1051/mateconf/201711203009, IMANE&E **2017**.
11. R. Pacurar, **A. Pacurar**, S. Pop, Designing of an innovative extrusion system for metallic parts made by desktop 3D printing method, MATEC Web of Conferences vol. 178, 02009 (2018) <https://doi.org/10.1051/mateconf/201817802009> IManE&E **2018**.
12. **Ancuța Păcurar**, Monica Rău, Răzvan Păcurar, Eugen Guțiu, Laura Bacali, Cosmin Cosma, Research regarding the design and manufacturing of hand orthosis by using Fused Deposition Modeling technology, MATEC Web of Conferences vol. 299, 01008 (2019), <https://doi.org/10.1051/mateconf/201929901008> MTeM **2019**.
13. Răzvan Păcurar, Valentin Buzilă, **Ancuța Păcurar**, Eugen Guțiu, Sergiu Dan Stan, Petru Berce, Research on improving the accuracy of FDM 3D printing process by using

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- a new designed calibrating part, MATEC Web of Conferences vol.299, 01007 (2019) <https://doi.org/10.1051/mateconf/201929901007> MTeM **2019**.
14. **Ancuța PĂCURAR**, Răzvan PĂCURAR, Beáta ERŐSS, Cristina MIRON-BORZAN, Optimal Tool Path Strategies For Decreasing The Manufacturing Time Of One Thermoforming Mold, Acta Technica Napocensis, Series: Applied Mathematics, Mechanics, and Engineering, Vol. 64, Issue I, March, **2021**.
  15. Florin Popister, Daniela Popescu, **Ancuta Păcurar** and Răzvan Păcurar, Mathematical Approach in Complex Surfaces Toolpaths, MDPI - Mathematics **2021**, 9, 1360. <https://doi.org/10.3390/math9121360>.
  16. Diana-Irinel Băilă, Cătălin Vitelaru, Lidia Roxana Constantin, **Ancuta Păcurar**, Constantina Anca Parau and Răzvan Păcurar, Thin Films Deposition of Ta<sub>2</sub>O<sub>5</sub> and ZnO by E-Gun Technology on Co-Cr Alloy Manufactured by Direct Metal Laser Sintering, MDPI - Materials **2021**, 14, 3666. <https://doi.org/10.3390/ma14133666>.
  17. Răzvan Păcurar, Petru Berce, Anna Petrilak, Ovidiu Nemes, Cristina Stefana Miron Borzan, Marta Harnicarova and **Ancuta Păcurar**, Selective Laser Melting of PA 2200 for Hip Implant Applications: Finite Element Analysis, Process Optimization, and Morphological and Mechanical Characterization, MDPI - Materials **2021**, 14, 4240. <https://doi.org/10.3390/ma14154240>.
  18. Răzvan Păcurar\* , Petru Berce, Ovidiu Nemes\*, Diana-Irinel Băilă \* , Dan Sergiu Stan , Alexandru Oarcea , Florin Popis , Cristina Miron Borzan, Sven Maricic, Stanislaw Legutko and **Ancuta Păcurar**, Cast Iron Parts Obtained in Ceramic Molds Produced by Binder Jetting 3D Printing - Morphological and Mechanical Characterization, Materials **2021**, 14(16), 4502; <https://doi.org/10.3390/ma14164502>.
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## **C2) Studii publicate la conferințe indexate în baze de date internaționale de referință (DBLP, ACM, IEEE, SCOPUS)**

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2. Fülöp István, Gyenge Csaba, **Costea Ancuta**, Egy különleges papíripari berendezés üzembiztonságának növelése a kockázatalapú karbantartási módszer alkalmazásával, International Scientific Conference, Fialat Műszakiak Tudományos Ülésszaka FMTU **2008**, Kolozvár, pag.101-106, ISBN 978-973-8231-75-7.
3. **Costea Ancuta**, Boca Valentin, Gyenge Csaba , Some practical results of risk based maintenance procedure introduction in Romanian paper industry, International Doctoral Seminar - IDS **2008**, Trnava, pag. 54-59, ISBN 978-80-8096-058-2.
4. Gyenge Csaba, Hodis Dorina, **Costea Ancuta**, Main results in the field of introduction of competitive product developing methodologies in Romanian industry, 3rd

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- Manufacturing Engineering Society International Conference MESIC **2009**, Alcoy, Spania, pag. 1018–1025, ISBN 978-84-613-3166-6.
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  8. Vlad Murariu, Csaba Gyenge, **Ancuța Păcurar**, Improvements on the Sonic Drilling Head , Academic Journal Of Manufacturing Engineering, Vol. 9, ISSUE 3/**2011**, pag. 64-69, ISSN-1583-7904
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18. R. Pacurar, **A. Păcurar** „Research On How To Correlate The Accuracy Of The Prototype Model, Tools And Plastic Injected Parts In The Rapid Product Development Process Using the Selective Laser Sintering Method”, Acta Technica Napocensis series: Applied mathematics and mechanics Number 56, Issue 1, **2013**, pp. 177-182, ISSN 1221-5872.
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  21. R. PACURAR, **A PACURAR**, AS RADU, Finite Element Analysis To Estimate The Efficiency Of A Wind Turbine Rotor, Acta Technica Napocensis-Series: Applied Mathematics, Mechanics and Engineering, vol.57, Issue 3 / **2014**.
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30. Diana-Irinel Băilă, Răzvan Păcurar, **Ancuța Păcurar**, Thin-Film Protective Coatings on Samples Manufactured by Direct Metal Laser Sintering Technology Used in Dentistry, International Scientific-Technical Conference Advances in Manufacturing III, **2022**, pag. 59-68, Springer, Cham, ISBN 978-3-030-99768-7, doi.org/10.1007/978-3-030-99769-4\_5.

#### **D – Lucrări publicate în reviste și volume de conferințe cu referenți (neindexate)**

1. Gyenge Csaba, Fülöp István, Hosu Adela, **Costea Ancuța**, *Some characteristics aspects regarding the maintenance of equipments for paper and pulp industry*, International Scientific Conference **MicroCAD 2005**, pag.31-36, ISBN 963 661 649 0.
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7. **Costea Ancuta**, Csaba Gyenge, Ros Olimpia, Fülöp István, *Some special aspects regarding the application of risk based maintenance for equipments paper industry*, International Scientific Conference **MicroCAD 2008**, Miskolc, pag.31-36, ISBN 978-963-661-823-0.
8. **Costea Ancuta**, Gyenge Csaba, Fülöp István, *Practical results of risk based maintenance procedure in Romanian paper industry*, Conference 14th Building Services Mechanical and Building Industry days, **2008, Debrecen**, pag. 251-257, ISBN 978-963-473-124-5.
9. **Costea Ancuta**, Gyenge Csaba, Hosu Adela, *Introduction of competitive developing methodologies in romanian industry*, 9th International Conference Modern Technologies in Manufacturing **MTeM 2009**, Cluj-Napoca, ISBN 973-7937-07-14.
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  24. Vlad Murariu, **Ancuta Pacurar**, Csaba Gyenge, *New Ice Core Drilling Machine For Small Glaciers*, *Acta Technica Napocensis series: Applied mathematics and mechanics* Number 56, Issue II, pp. 411-414, June 2013, ISSN 1221-5872.
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October 2013, pp.20-24, Editura Mures, 1583-7904.

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