

**List of scientific papers**

**A – PhD Thesis**

„Contributions Regarding the Implementation of the Computerized Maintenance Systems”  
PhD Supervisor: Acad.prof.dr.eng. Csaba Gyenge  
Technical University of Cluj-Napoca  
PhD. Thesis defend: 24 Octombrie 2011

**B – Books / chapters in books**

**B1. Books**

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 mentenenta, 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. Chapters in books**

1. Răzvan Pacurar, **Ancuța Păcurar**, chapter “Applications of the Selective Laser Melting Technology in the Industrial and Medical Fields”, published in the book entitled „New Trends in 3D Printing”, edited by: 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**, chapter “Applications of Design for Manufacturing and Assembly”, published in the book entitled “Applications of Design for Manufacturing and Assembly”, published by 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. International scientific books as editor**

1. **Ancuța Păcurar**,“ Applications of Design for Manufacturing and Assembly”, edited by 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 – Papers published in journals and conference volumes indexed in databases

### C1) Papers published in ISI Thomson Reuters journals and volumes indexed ISI Proceedings

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

- a new designed calibrating part, MATEC Web of Conferences vol.299, 01007 (2019) <https://doi.org/10.1051/matecconf/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>.
  19. **Pacurar, A.**, Tomsea, A., Vilau, C., Gutiu, E., Pacurar, R., Designing and manufacturing of an ankle orthosis using 3D printing technology, Acta Technica Napocensis Series-Applied Mathematics Mechanics And Engineering **2021**, Vol 64, Issue 4, Page 561-564, ISSN1221-5872, WOS:000731519800006.
  20. Pacurar, R., Chincisan, D., Vilau, C., **Pacurar, A.**, Designing and manufacturing of an internal combustion engine connecting rod made of ALSI10MG material using selective laser melting technology, Acta Technica Napocensis Series-Applied Mathematics Mechanics And Engineering **2021**, Vol 64, Issue 4, Page 547-552, ISSN1221-5872, WOS:000731519800004.

## **C2) Papers published in journals and conference volumes indexed in databases B+ (DBLP, ACM, IEEE, SCOPUS)**

1. Gyenge, Cs.;Ros, O.;Fulop,I.;Itu,C.;Todea,M.;**Costea,A.**, Some characteristicly aspects of recycling the huge aggregate from paper industry, The 17<sup>th</sup> International DAAAM Symposium **2006**, pag.153-154, Publisher Danube Adria Association for Automation and Manufacturing, DAAAM ISBN 3-901509-57-7.
2. Fülöp István, Gyenge Csaba, **Costea Ancuta**, Egy különleges papíripari berendezés üzembiztonságának növelése a kockázatalapú karbantartási módszer alkalmazásával, International Scientific Conference, Fialat Műszakiak Tudományos Ülészaka 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.
5. **Ancuta Costea**, Olimpia Ros, Csaba Gyenge, Practical Results Of Predictive Maintenance Procedure Introduction In Romanian Paper Industry, International Journal of Modern Manufacturing Technologies –ModTech2010, vol.II, No.1/**2010**, pag. 25-30, ISSN 2067-3604.
  6. **Ancuta Costea**, Olimpia Ros, Csaba Gyenge, Research on the risk based Maintenance Procedure for Paper Industry, Proceedings of The 15<sup>th</sup> International Conference - Modern Technologies, Quality and Innovation - New face of TMCR ModTech **2011**, Vadul lui Voda-Chisinau, pag. 285-288, ISSN 2069-6736
  7. Daniela Dorina Fulop, Csaba Gyenge, **Ancuta Costea**, Istvan Fulop, A New Conception Regarding The Housing Of The Drying Cylinders, Proceedings of The 15<sup>th</sup> International Conference - Modern Technologies, Quality and Innovation - New face of TMCR ModTech **2011**, Vadul lui Voda-Chisinau, pag. 421-424, ISSN 2069-6736.
  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
  9. Annamaria RAFA, Csaba GYENGE, **Ancuta PACURAR**, Applied Mathematical Algorithm for Grinding Cylindrical Gears with Profile Modifications, Acta Technica Napocensis of the Technical University of Cluj-Napoca, Applied Mathematics and Mechanics, Vol.55, ISSUE I, **2012**, pag. 249-256, ISSN 1221-5872.
  10. Daniela Dorina Fulop, **Ancuta Pacurar**, Istavn Fulop, Risk Based Maintenance Implementation At The Drying Part Of The Paper Machine, International Scientific Conference PRO-TECH-MA 2012, 25-27.06.2012, Published by Technical University of Kosice, Herlany Slovakia, ISBN:978-80-553-0950-7, **2012**.
  11. Vlad MURARIU, **Ancuta PACURAR**, Csaba GYENGE, New Design Of A Geotechnical Sonic Drilling Head, Acta Technica Napocensis, Applied Mathematics and Mechanics, **2012**.
  12. **Ancuta PACURAR**, Vlad MURARIU, Adrian Sever RADU, Nicolae PANC Practical Results Regarding The Competitive Product Developing Methodologies, Acta Technica Napocensis, Applied Mathematics and Mechanics, no. 55, vol. IV, pp. 873-876, **2012**, ISSN 1221-5872.
  13. R. Pacurar, **A. Pacurar**, S.A., Radu, Research on how to control the porosity of the medical implants made by selective laser melting technology, Acta Technica Napocensis series: Applied mathematics and mechanics, no. 55, vol. IV, pp. 877-884, **2012**, ISSN 1221-5872.
  14. S.A. Radu, **A. Pacurar**, R. Pacurar, Manufacturing of the active mold elements and optimization of the necessary material used for vacuum casting process, Acta Technica Napocensis series: Applied mathematics and mechanics, no. 55, vol. IV, pp. 913-916, **2012**, ISSN 1221-5872.
  15. Nicolae PANC, Adrian Sever RADU, **Ancuta PACURAR**, The simultation of wax solidification process in silicone rubber mold, Acta Technica Napocensis, Applied Mathematics and Mechanics, no. 55, vol. IV, pp. 885-888, **2012**, ISSN 1221-5872.
  16. R. Pacurar, **A. Păcurar** „Innovative Solution To Decrease The Porosity Of Injection Moulding Tools Made By Selective Laser Sintering Technology”, Acta Technica Napocensis series: Applied mathematics and mechanics, Number 56, Issue 1, **2013**, pp. 183-188, ISSN 1221-5872.
  17. R. Păcurar, **A. Păcurar**, N. Bâlc, "Research on the Accuracy of Injection Molding Tools Made by H13 Material Using the Selective Laser Melting Technology", in Recent Advances in Engineering Mechanics, Structures and Urban Planning, pp. 81-86, **2013**.

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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.
  19. Gyenge Cs., **Pacurar Ancuta**, Pacurar R., Radu S.A., Some characteristics aspects regarding the precision manufacturing of worm gears, Academic Journal of Manufacturing Engineering, volume 11, ISSUE 4/**2013**, pp. 20-24, Editura Politehnica, ISSN 1583-7904.
  20. V. Murariu, **A. Pacurar**, C. Gyenge, The Sonic-Hydraulic Geotechnical Drilling Head And The Testing Rig, Acta Technica Napocensis-Series: Applied Mathematics, Mechanics, And Engineering, vol.56, Issue 3/**2013**.
  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**.
  22. R. Păcurar, **A. Păcurar**, Popișter, F., Popișter, A. "Finite Element Analysis to Improve the Accuracy of ABS Plastic Parts Made by Desktop 3D Printing Method", in Applied Mechanics and Materials, vol. 760 - Advanced Technologies in Designing and Progressive Development of Manufacturing Systems, pp. 509-514, ISBN-13: 978-3-03835-443-7, **2015**.
  23. R. Păcurar, **A. Păcurar**, A.S. Radu, Research on the Influence of the Orientation of Deposited Material on the Mechanical Properties of Samples Made from ABS M30 Material Using the 3D Printing Method, in Applied Mechanics and Materials, Vol. 808 - Modern Technologies in Manufacturing, pp. 429-434, ISBN 13: 978-3-03835-653-0, **2015**.
  24. R. Păcurar, **A. Păcurar**, Topology Optimization of an Airplane Component to Be Made by Selective Laser Melting Technology, in Applied Mechanics and Materials, Vol. 808 - Modern Technologies in Manufacturing , pp. 181-186, ISBN 13: 978-3-03835-653-0, **2015**.
  25. Cs. Gyenge, **A. Păcurar**, L. Oláh, R. Păcurar, New manufacturing technology for variable pitch and variable screw profile worms, in Applied Mechanics and Materials, Vol. 808 - Modern Technologies in Manufacturing, pp. 48-53, ISBN 13: 978-3-03835-653-0, **2015**.
  26. **Pacurar Ancuta**, Pacurar Razvan, Research on the predictive maintenance procedure for a black lye pump of regeneration boiler used in the paper and pulp company, International Journal of Mechanical Engineering and Automation , Vol. 2, No. 9, Sept. Print ISSN: 2333-9179, Online ISSN: 2333-9187, **2015**.
  27. R Păcurar, S Pascu, **A Păcurar**, D S Stan, E Teușan, D I Băilă, A Sadeh, Designing of an original extruding system for 3D printing of parts made of plastic material in powder-state form. IOP Conference Series: Materials Science and Engineering, Volume 1009, The 5th International Conference on Computing and Solutions in Manufacturing Engineering (CoSME'20) 7-10 October 2020, Brasov. (**2021**) 012043 IOP Publishing doi:10.1088/1757-899X/1009/1/012043. (scopus)
  28. R Păcurar, B Danci, **A Păcurar**, Research on optimal scaling of parts made from stainless steel material by Selective Laser Melting, 2021 9th International Conference on Modern Power Systems (MPS), IEEE Xplore, 16-17 June 2021, Cluj-Napoca, Romania, **2021**, DOI: 10.1109/MPS52805.2021.9492672.
  29. Diana-Irinel Băilă, Răzvan Păcurar, **Ancuța Păcurar**, Sintered Compacts of Co-Cr Powders Doped with HAp and ZrO Used in Implantology, International Scientific-Technical Conference Advances in Manufacturing III, **2022**, pag. 69-78, Springer, Cham, ISBN 978-3-030-99768-7, doi.org/10.1007/978-3-030-99769-4\_6.

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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 – Papers in journals / national / international Proceedings not indexed**

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.
2. Gyenge Csaba, Fülöp István, Hosu Adela, **Costea Ancuța**, *Main aspects regarding the maintenance of equipments for paper and pulp industry*, 9<sup>th</sup> International Research/Expert Conference **TMT 2005**, pag.1169-1172, ISBN 9958-617-28-5.
3. Gyenge Csaba, Fülöp István, Hosu Adela, **Costea Ancuța**, *Some aspects regarding the maintenance of equipments for paper and pulp industry*, The 7<sup>th</sup> International Conference Modern Technologies in Manufacturing **MTeM 2005**, pag.221-224, ISBN 973-9087-83-3.
4. Gyenge,Cs.,Varga A.,Gyenge Z.,**Costea A.**, *Introducerea pe baza de risc in industria celulozei si hartiei*, **EME-Ziua Stiintei Magheare**,28 noiembrie **2006**.
5. Gyenge Cs., Ros O., **Costea A.**, *Researches regarding the risk based maintenance of equipments for paper and pulp industry*, International Conference on Manufacturing and Education – **MSE 2007**, Sibiu, pag.245-246, ISSN 1843-2522 .
6. Fülöp István, Gyenge Csaba, **Costea Ancuta**, *Contributions regarding the predictive maintenance of pumps for the paper and pulp industry*, The 8<sup>th</sup> International Conference Modern Technologies in Manufacturing **MTeM 2007**, Cluj-Napoca, pag.159-161, ISBN 937-9087-83-3
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.
10. Hosu Adela **Costea Ancuta**, Mircea Ancuta, *Modeling and simulation of automated assembly processes*, 9th International Conference Modern Technologies in Manufacturing **MTeM 2009**, Cluj-Napoca, ISBN 973-7937-07-14.
11. Gyenge Csaba, **Costea Ancuta**, Fülöp István, *Main Aspects Of Introduction The Predictive Maintenance Procedures In Romanian Paper Industry*, International Scientific Conference **MicroCAD 2010**, Miskolc, pag.69-74, ISBN 978-963-661-925-1.
12. **Costea Ancuta**, Gyenge Csaba, *Research on the predictive maintenance procedure for paper industry*, 10<sup>th</sup> International Conference Modern Technologies in Manufacturing **MTeM 2011**, Cluj-Napoca, pag. 77-80, ISBN 978-606-8372-02-0.
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14. R. Pacurar, N. Balc, **A. Pacurar**, I. Popan, *Research on the life-cycle of a medical implant made by selective laser melting*, *Proceedings of the International Conference on Additive Technologies, iCAT 2012*, 19<sup>th</sup>-21<sup>th</sup> September 2012, Maribor, Slovenia.
  15. R. Pacurar, P. Berce, **A. Pacurar**, A. Luca, *Research on the accuracy of injection molds made by selective laser melting*, *Proceedings of the International Conference on Additive Technologies, iCAT 2012*, 19<sup>th</sup>-21<sup>th</sup> September 2012, Maribor, Slovenia.
  16. R. Pacurar, **A. Pacurar**, Z. Balazs, *Design of a wind turbine rotor made by selective laser sintering (SLS)*, *Proceedings of the International Conference on Additive Technologies, iCAT 2012*, 19<sup>th</sup>-21<sup>th</sup> September 2012, Maribor, Slovenia.
  17. Gyenge Csaba., Olah, Hodis, **Pacurar Ancuta**, *New Technology For Variable Pitch And Variable Screw Profile Worms Manufacturing*, *International Conference on Inovative Technologies IN-TECH 2012*, 26-28.09.2012, Rijeka, Croatia.
  18. Gyenge, C., Rafa, A., Pacurar, A., Bob, M., *Some Characteristical Aspects CNC Grinding Of Spur Gears*, *Proceedings of 11th International Scientific Conference MMA 2012 – Advanced Production Technologies*, Novi Sad, 20-21 September 2012, pp. 69-72, ISBN 978-86-7892-429-3.
  19. Csaba Gyenge, Annamaria Rafa, Ancuta Pacurar, Calin Marian, *Some Constructive And Technological Aspects Regarding The Gear Transmissions Used At Wind Turbines*, *Proceedings of the 5th International Symposium on Exploitation of Renewable Energy Sources – EXPRES*, 21-23 March 2013, Subotica, Serbia, pp. 76-81, ISBN 978-86-85409-82-0.
  20. R.Pacurar, **A. Pacurar**, N. Bâlc, “*Research on the Accuracy of Injection Molding Tools Made by H13 Material Using the Selective Laser Melting Technology*”, *ISI Proceedings of WSEAS Network Conference: "Recent Advances in Engineering Mechanics, Structures & Urban Planning"*, 20<sup>th</sup>-22<sup>nd</sup> February **2013**, **Cambridge**, UK, ISSN 2227-4588, 2013.
  21. Vlad Murariu, **Ancuta Pacurar**, Csaba Gyenge, *New, Hydraulic Driven, Geotechnical Sonic Drilling Head*, *The Publications of the XXVII. International Scientific Conference*, 21-22 March **2013 - MicroCAD**, Miskolc, Hungary, ISBN 978-963-358-018-9.
  22. Gyenge, Cs., **Pacurar, A.**, Murariu, V., *Some Characteristic Aspects Regarding The Modern Product Development Methodology Implementation At T.U. Cluj-Napoca*, *Workshop - Modern approach to product development and business improvement*, 16-19 May **2013, Balatonfured, Hungary**.
  23. Csaba Gyenge, Marian Calin, **Pacurar Ancuta** , *Theoretical and experimental aspects regarding the manufacturing of spur gears with special profile modification*, (plenary session), **ICET 2013 - International Congress on Engineering and Technology**, pp. 20-26, 25<sup>th</sup> - 27<sup>th</sup> June 2013, Dubrovnik, Croatia, ISBN 978-80-87670-08-8.
  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.
  25. Vlad Murariu, **Ancuta Pacurar**, Csaba Gyenge, *New Concept Of A Geotechnical Sonic Drilling Head*, *Acta Technica Napocensis series: Applied mathematics and mechanics* Number 56, Issue II, pp. 415-420, June 2013, ISSN 1221-5872.
  26. Gyenge Cs., **Pacurar Ancuta**, Pacurar R., Radu S.A., *Some characteristics aspects regarding the precision manufacturing of worm gears*, *Preceedings of the 11th International Conference Modern Technologies in Manufacturing – MteM 2013*, Cluj-Napoca, 17-19 October 2013, pp.93-98, Editura Mures, ISBN 973-9087-53-1.
  27. Radu S.A., Popescu A., Pacurar A., Pacurar R., Borzan C., *Research considering the fabrication of resin parts using silicone rubber molds*, *Preceedings of the 11th International*

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Conference Modern Technologies in Manufacturing – MteM 2013, Cluj-Napoca, 17-19  
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