

A N E X A 4 . 4 3

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L I S T A**lucrărilor științifice în domeniul disciplinelor din postul didactic****A. Teza de doctorat**

1. **Tera Melania**, Contribuții privind ambutisarea unor table bimetalice, Teză de doctorat, Domeniul Inginerie Industrială, Universitatea „Lucian Blaga” din Sibiu, 214 pag., conducător științific prof. univ. dr. ing. Octavian Bologa, 2012

B. Cărți si capitole în cărți publicate în ultimii 10 ani

1. Racz S.G., Breaz, R.E, **Tera, M.** Gîrjob C., Biriș, C., Chicea, A.L., Bologa, O. editori carte: Hooyar Attar, Damon Kent, Titanium Alloys for Biomedical Implants and Devices (capitol), ISBN 978-3-0365-0002-7 (Hbk), ISBN 978-3-0365-0003-4 (PDF), **2020**, link WorldCat: https://www.worldcat.org/title/titanium-alloys-for-biomedical-implants-and-devices/oclc/1242408131&referer=brief_results
2. Bogdan, L., **Tera, M.**, *Automatizări*, Editura Universității "Lucian Blaga" din Sibiu, ISBN 978-606-12-1518-8, 216p, Sibiu, **2017**
3. Racz, S-G., **Tera, M.**, Chicea A. L., Mașini și sisteme de prelucrare: îndrumar de laborator, Editura Universității "Lucian Blaga" din Sibiu, ISBN 978-606-12-1290-3, 208p, Sibiu, **2016**
4. Breaz, R.-E., **Tera, M.**, Tehnici de programare manuală și asistată de calculator a echipamentelor CNC, , Editura Universității "Lucian Blaga" din Sibiu, ISBN 978-606-12-1294-1, 203p, Sibiu, **2016**
5. **Tera, M.**, *Cercetări privind dezvoltarea unor tehnici de prelucrare prin deformare incrementală pe mașini cu comandă numerică în scopul implementării industriale*, Editura Universității "Lucian Blaga" din Sibiu, ISBN 978-606-12-116-9, Sibiu, **2015**, 227p
6. **Tera, M.**, Bogdan, L., Breaz, R., *Acționări și comenzi electrice. Îndrumar de laborator*, Editura Universității "Lucian Blaga" din Sibiu, Sibiu, **2010**, ISBN 978-606-12-0071-9

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani**C.I. Lucrări în reviste cotate Clarivate Analytics (ISI) cu factor de impact**

1. **Tera, M**, Breaz, R.-E., Racz, S.-G., Gîrjob, C., Processing strategies for single point incremental forming—a CAM approach, International Journal of Advanced Manufacturing Technology (2019), <https://doi.org/10.1007/s00170-018-03275-9>, jurnal cotate Clarivate Analytics, autor corespondent, **Q2 – zonă galbenă, (FI 2.633/2019)**
2. S.G. Racz, R.E Breaz, **M. Tera**, C. Gîrjob, C. Biriș, A.L. Chicea, O. Bologa, Incremental Forming of Titanium Ti6Al4V Alloy for Cranioplasty Plates—Decision-Making Process and Technological Approaches, Metals 2018, 8(8), 626; <https://doi.org/10.3390/met8080626>, jurnal cotate Clarivate Analytics, **Q1 – zonă roșie, (FI 2.259/2018)**, WOS:000443616400062

3. S.G. Racz, R.E. Breaz, O. Bologa, **M. Tera**, V.Ș. Oleksik, *Using an adaptive neuro-fuzzy inference system (ANFIS) to calculate the vertical force in single point incremental forming*, International Journal of Computers Communications & Control, jurnal cotat Clarivate Analytics, Volume: 14, Issue: 1, Pages: 63-77, DOI: 10.15837/ijccc.2019.1.3489 **Q3 – zona albă (FI 1.585/2018)**, WOS:000458616200005

C.II. Articole publicate în reviste de circulație internațională, specifice domeniului, cotate I.S.I. sau indexate în baze de date internaționale:

4. Petru, C.D. **Tera, M.** Gîrjob, C.E. Biriș C.M., INDUSTRY 4.0 – HOW TO INTRODUCE ITS CONCEPTS INTO THE TRAINING OF MECHATRONICS ENGINEERS, 14th annual International Conference of Education, Research and Innovation, 8-9 November, **2021**, 9099-9103, 2021, ISBN: 978-84-09-34549-6, ISSN: 2340-1095, doi: 10.21125/iceri.2021.2094
5. Breaz, R.E. Racz, S.G. **Tera, M.** Gîrjob, C.E. Biriș C.M., ONLINE TEACHING ACTIVITIES DUE TO COVID-19 - CASE STUDY FOR THE MECHATRONICS STUDY PROGRAMME, 14th annual International Conference of Education, Research and Innovation, 8-9 November, **2021**, 9125-9130, 2021, ISBN: 978-84-09-34549-6, ISSN: 2340-1095, doi: 10.21125/iceri.2021.2098
6. Breaz, R.E., Racz, S.G., Gîrjob, C.E., **Tera, M.**, Study upon the kinematic simulation of the incremental forming carried-on using a serial industrial robot, IOP Conference Series: Materials Science and Engineering, Volume 1009, Issue 1, 15 January 2021, 5th International Conference on Computing and Solutions in Manufacturing Engineering, CoSME 2020; Brasov; Romania; 7-10 October **2020**, ISSN: 17578981, doi:10.1088/1757-899X/1009/1/012011, WOS
7. Breaz, R.E., Racz, S.G., Gîrjob, C.E., **Tera, M.**, Study on the application of CAM techniques on CNC lathes with Y axis and driven tools, IOP Conference Series: Materials Science and Engineering, Volume 1009, Issue 1, 15 January 2021, 5th International Conference on Computing and Solutions in Manufacturing Engineering, CoSME 2020; Brasov; Romania; 7-10 October **2020**, ISSN: 17578981, doi: 10.1088/1757-899X/1009/1/012010, <http://www.cosme.ro/>, WOS
8. Breaz, R.E., Racz, S.G., Gîrjob, C.E., **Tera, M.**, Biriș, C., Using open source software CNC controllers and modular multi-axis mechanical structure as integrated teaching environment for CAD/CAM/CAE training, IOP Conference Series: Materials Science and Engineering, Volume 968, Issue 1, 10 November 2020, 6th International Conference on Advanced Manufacturing Engineering and Technologies, NEWTECH 2020; Galati; Romania; 9 - 11 September **2020**, ISSN: 17578981, doi: 10.1088/1757-899X/968/1/012024, <https://www.newtech2020.ugal.ro/>, WOS
9. Crenganiș, M., **Tera, M.**, Biriș, C., Gîrjob, C., Dynamic Analysis of a 7 DOF Robot Using Fuzzy Logic for Inverse Kinematics Problem, , Procedia Computer Science Volume 162, ISSN: 1877-0509, pp. 298-306, <https://doi.org/10.1016/j.procs.2019.11.288>, <https://www.sciencedirect.com/science/article/pii/S1877050919320009>, 2019
10. **Tera, M.**, Gîrjob, C.E., Biriș, C.M. Crenganiș, M., Modular fastening system and tool-holder working unit for incremental forming, Modern Technologies in Manufacturing (MTeM 2019), eISSN: 2261-236X, 05005 -6 p, <https://doi.org/10.1051/mateconf/201929905005>, <https://www.matec-conferences.org/>, 2019
11. **Tera, M.**, Breaz, R.E., Raising the Interest of High School Graduates for Mechatronics and Robotics University Study, articol, 10th International Conference on Education and New Learning Technologies EDULEARN 2018, ISBN: 978-84-

- 09-02709-5, ISSN: 2340-1117,6380-6386,<https://doi.org/10.21125/edulearn.2018.1513>, <https://iased.org/edulearn18/>, **2018**
12. Breaz, R.E., **Tera, M.**, Student Competitions, a Useful Tool for Enhancing Skills and Competences, articol, 10th International Conference on Education and New Learning Technologies EDULEARN 2018, ISBN: 978-84-09-02709-5, ISSN: 2340-1117,6335-6340, <https://doi.org/10.21125/edulearn.2018.1505>, <https://iased.org/edulearn18/>, **2018**
 13. **Tera, M.**, Analysis of Geographic Origin of Engineering Students and Their Cultural and Adaptation Issues at Lucian Blaga University in Sibiu, articol, 11th annual International Conference on Education and New Learning Technologies ICERI 2018, ISBN: 978-84-09-05948-5, ISSN: 2340-1095, <http://dx.doi.org/10.21125/iceri.2018.2388>, <https://iased.org/edulearn18/>, **2018**
 14. Breaz, R.E., **Tera, M.**, Setting up a New Master Program in the Field of Mechatronics at Lucian Blaga University of Sibiu, articol, 11th annual International Conference on Education and New Learning Technologies ICERI 2018, ISBN: 978-84-09-05948-5, ISSN: 2340-1095,5879-5884, <https://doi.org/10.21125/iceri.2018.2387>, <https://iased.org/iceri2018/>, **2018**
 15. **Tera, M.**, *Balancing Theoretical Knowledge and Practical Skills in Teaching CNC Programming to Mechanical and Manufacturing Engineers*, 10th annual International Conference of Education, Research and Innovation, Seville, Spain, 16-18 November, 2017, ISBN: 978-84-697-6957-7, ISSN: 2340-1095, pp8167-8172, <https://iased.org/iceri/>, **2017**
 16. Breaz R., Racz G., Bologa O., **Tera M.**, *Considerations Regarding CAM Techniques for Robot Milling*, Academic Journal of manufacturing Engineerin, Vol. 15/3, ISSN: 1583-7904, http://www.auif.utcluj.ro/images/AJME_15_3/L4, pp. 23-28, **2017**
 17. **Tera, M.** Breaz, R.E. Racz, G.S. Girjob, C., Chicea, A.L., *Is engineering a male specific profession and how this issue is addressed at Lucian Blaga university of Sibiu*, 10th International Technology, Education and Development Conference, 7-9 March, 2016, Valencia, Spain, ISBN: 978-84-608-5617-7, ISSN: 2340-1079, pp1907-1915, <https://library.iased.org/view/TERA2016ISE>, <https://iased.org/inted2016/>, martie, **2016**
 18. Breaz, R.E. Racz, G.S., **Tera, M.** Bologa, O.C. Biriș, C. *Making Mechatronics Study Programme at "Lucian Blaga" University of Sibiu Available For International Students*, 10th International Technology, Education and Development Conference, 7-9 March, 2016, Valencia, Spain, ISBN: 978-84-608-5617-7, ISSN: 2340-1079, pp1536-1543, <https://library.iased.org/view/BREAZ2016MAK>, **2016**
 19. **Tera, M.**, Breaz R.E., Bologa, O., Racz S.G., *Developing a knowledge base about the technological forces within the asymmetric incremental forming process*, Key Engineering Materials Vols 651-653 (2015) pp 1115-1121, (2015) Trans Tech Publications, Switzerland doi:10.4028/www.scientific.net/KEM.651-653.1115 ISSN 1013-9826, **2015**
 20. **Tera, M.**, *The competences required for manufacturing engineers to manage the industrial implementation of the incremental forming process*, 9th International Technology, Education and Development Conference, INTED2015, 2-4 martie, 2015, Madrid, Spania, pp. 5006-5013, ISBN: 978-84-606-5763-7, ISSN: 2340-1079, Volumul conferinței este indexat ISI Conference Proceedings Citation Index, **2015**
 21. **Tera, M.**, Bologa O., *The metal forming research centre of "Lucian Blaga" University of Sibiu – closing the gap between the higher education research and the industry*, 9th International Technology, Education and Development Conference, INTED2015, 2-4 martie, 2015, Madrid, Spania, pp. 7386-7393, ISBN: 978-84-606-5763-7, ISSN: 2340-1079, Volumul conferinței este indexat ISI Conference Proceedings Citation Index, **2015**

22. Chicea, A.L., Breaz, R.E., Bologa, O., **Tera M.**, *Increasing the Quality of Mechatronics Study Programme at “Lucian Blaga” University of Sibiu*, 7th International Conference on Education and New Learning Technologies, EDULEARN2015, 6-8 iulie, 2015, Barcelona, Spain, pp. 5062-5068, EDULEARN15 Proceedings ISBN: 978-84-606-8243-1, ISSN: 2340-1117, Volumul conferinței este indexat ISI Conference Proceedings Citation Index, **2015**
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24. **Tera, M.**, Racz, S.G., Tirnovean, S., Biris, C., Girjob, C., *Training Specialists Able to Implement the Incremental Forming Process at Industry Level*, 7th International Conference of Education, Research and Innovation, Seville - 17th-19th November 2014, ISBN: 978-84-617-2484-0 ISSN: 2340-1095, pp. 494-503, iceri2014.org, **2014**
25. Tirnovean, S., Breaz, R.E., **Tera, M.**, Bologa, O.C., Racz, S.G, *Teaching CAD/CAE/CAM Techniques for CNC Profiling and Punching Machines at Master Level*, 7th International Conference of Education, Research and Innovation, Seville - 17th-19th November 2014, ISBN: 978-84-617-2484-0 ISSN: 2340-1095, pp. 479-486 iceri2014.org, **2014**
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33. Deac, C., **Tera, M.**, Bibu, M., Biriș, C., *Analytical Approach to Determining the Optimal Shape of the Casting Sprue for Small-Size Metallic Parts*, Proceedings of the 20th International DAAAM Symposium, ISSN 1726-9679, pp995-996, <http://www.daaam.com/daaam/Publications/Publications.htm>, nov, **2009**
34. Biriș, C., Deac, C., **Tera, M.**, *Aspects of Optimising the Positioning and Contouring Precision of CNC Laser Cutting Machines*, Annals of DAAAM for 2008 & Proceedings of the 19th International DAAAM Symposium, 22-25th October 2008, Trnava, Slovakia, ISSN 1726-9679, ISBN 978-3-901509-68-1, pp102-103, <http://www.daaam.com/daaam/Publications/Publications.htm>, oct, **2008**
35. Deac, C., Bibu, M., Petrescu, V., **Tera, M.**, Biriș, C., *Assessment of the Quality of Casting Nonferrous Small-Size Parts by Numerical Simulation*, Annals of DAAAM for 2008 & Proceedings of the 19th International DAAAM Symposium, 22-25th October 2008, Trnava, Slovakia, ISSN 1726-9679, ISBN 978-3-901509-68-1, pp361-362, <http://www.daaam.com/daaam/Publications/Publications.htm>, oct, **2008**

C.III. Articole publicate în reviste din țară, specifice domeniului, recunoscute de CNCISIS (Publicații BDI și publicații ERIH PLUS):

36. Paunoiu, V., Teodor, V., **Tera, M.**, Belu, N., Ciofu, C., Tampu, N., *Design of a Car Body Part Using Reverse Engineering and FEM*, Journal PROCEEDINGS IN MANUFACTURING SYSTEMS, Vol.13, nr.3, ISSN 2343-7472, ISSN-L 2067-9238, **2018**, 141-146, Index Copernicus, UlrichsWeb, ProQuest, http://www.icmas.eu/Journal_archive_files/Vol_13-Issue3_2018_PDF/121-126_Breaz.pdf
37. **Tera, M.**, Biriș, C.M., *Comparison between deep-drawing and incremental forming processes from an environmental point of view*, 9th International Conference on Advanced Manufacturing Technologies (ICAMaT 2018) / volum înaintat spre publicare în revista Applied Mechanics and Materials, **2018**, Index Copernicus, UlrichsWeb, ProQuest
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39. Breaz R., **Tera M.**, *Considerations regarding the use of technological equipment for indexed and continuous multi-axes machining*, MATEC Web of Conferences, 8th International Conference on Manufacturing Science and Education – MSE 2017 “Trends in New Industrial Revolution” Volume 121, ISSN: 2261-236, 2017, Scopus https://www.matec-conferences.org/articles/mateconf/abs/2017/35/mateconf_mse2017_08003/mateconf_mse2017_08003.html, **2017**
40. Breaz R.E, Racz, S.G., **Tera M.**, Crenganiș, M., *The implementation of a modular open architecture PC-based CNC system used as a research and education*

- equipment*, Proceedings in Manufacturing Systems, Volume 12, Issue 2, ISSN 2067-9238, 2017, pp. 53-58, Index Copernicus, Ulrichs Web, ProQuest, http://www.icmas.eu/Journal_archive_files/Vol_12-Issue2_2017_PDF/53-58_BREAZ_2017.pdf, **2017**
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 46. **Tera M.**, Breaz, R., *Method For Determining Technological Forces On Milling And Incremental Forming Processes Using Machine Sensors*, Academic Journal of Manufacturing Engineering, Volume XII, Issue 3/2014, ISSN 1583-7904, 2014, Ulrich's, Copernicus, **2014**
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56. **Tera, M.**, Bologa, O., Oleksik, V., *Aspects and results of the numerical simulation of the deep-drawing of tailor-welded parts*, Tehnologia Inovativă Revista Construcția de Mașini, ISSN 0573 – 7419, 2008, 113-116, CSA, http://www.ictcm.ro/Electronic%20form%20TI%203_4_2008.pdf, **2008**
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D. Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți (neindexate)

- Reviste

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E. Brevete obținute în întreaga activitate

1. Sistem modular flexibil de fixare a semifabricatelor pentru procedeul de deformare incrementală, Autori: RACZ Sever-Gabriel, BREAZ Radu-Eugen, OLEKSIK Valentin Ștefan, PASCU Adrian Marius, POPP Ilie Octavian, GÎRJOB Claudia Emilia, TERA Melania, CHICEA Anca Lucia, BIRIȘ Cristina Maria, CRENGANIȘ Mihai

Data: 1.04.2022

Semnătura:

E – Brevete (pentru întreaga activitate)