**LISTA DE LUCRARI**
**Conf.dr.ing. Gîrjob Claudia-Emilia**

**a) Teza de doctorat**

Gîrjob Claudia-Emilia, *Contribuții privind deformarea unor materiale metalice cu plasticitate scăzută*, Teză de doctorat, Domeniul Inginerie Industrială, Universitatea „Lucian Blaga" din Sibiu, 200 pg., conducător științific prof. univ. dr. ing. Octavian Bologa, 2010.

**b) Lucrări care pun in evidenta activitatea didactică:**

1. Racz, S.G., Gîrjob, Claudia, *Sisteme hidraulice de acţionare*, Editura Universităţii „Lucian Blaga" din Sibiu, ISBN 978-606-12-1292-7, 263 pag, 2016.
2. Racz, S.G., Gîrjob, C., Biriş, C., *Sisteme hidraulice de acţionare*, Îndrumar de laborator, Editura Universităţii „Lucian Blaga" din Sibiu, ISBN 978-606-12-1293-4, 206 pag., 2016.
3. Gîrjob, C., *Sisteme mecatronice aplicate*, Ediitura Universităţii „Lucian Blaga" din Sibiu, ISBN 978-606-12-1513-3, 210 pag., 2018.

**c) Lucrări care pun in evidentă activitatea de cercetare:**

*Granturi /proiecte câștigate prin competiție*

*- director / responsabil*

*- naţionale*

1. *Contribuţii privind optimizarea unor procedee de deformare plastica folosind materiale cu plasticitate scăzută ,* , 2002, Consiliul Naţional al Cercetării Ştiinţifice din Învăţământul Superior (C.N.C.S.I.S.), 12 mil.lei (2002), Nr. *Nr. 14/2002*, (director)
2. *Tehnologii de fabricare inteligente pentru producția avansată a pieselor din industriile de automobile și aeronautică*, Proiect PN-III-P1-1.2-PCCDI-2017-0446 /nr. 82PCCDI/2018-2020, Proiect component 3, responsabil partener 3,

*- membru în echipă*

*- internaționale*

*1. Promoting and Supporting Implementation of Biogas-Polygeneration: A systematic Approach Towards Sustainable Energy Consumption in Romania*, FP 6 Specific Support

Action – ProBioPol, Call identifier: FP6-2005-TREN-4, No. 038387, Coordonator: AGIMUS GmbH – Germania, Partener: AGIR – Filiala Sibiu

- *naţionale*

1. *Sisteme agabaritice de control al mişcării plane şi spaţiale utilizabile în industria autovehiculelor*, AGAMIS, PNCDI II - Programul 4 – Parteneriate in domenii prioritare 72-206/2008, (2008-2011), beneficiar: Centrul Naţional de Management Programe
2. *Tehnologie integrată de evaluare şi compensare a erorilor sistemelor de prelucrare (TINCOMP),* PNCDI II - Programul 4 – Parteneriate in domenii prioritare 71-011/2007, (2007-2010), beneficiar: Centrul Naţional de Management Programe
3. *Dezvoltarea infrastructurii de cercetare a unui laborator pentru testarea materialelor avansate utilizate în producţia de caroserii auto (TESTMAT),* PNCDI II - Programul 2 – Capacităţi 124 CPI/2007, 2007-2008, beneficiar: Autoritatea Naţională pentru Cercetare Ştiinţifică
4. *Materiale, tehnologii şi echipamente pentru profilări plane şi spaţiale (MATEPROF),* CEEX Nr. 130/2006, A.M.C.S.I.T. – Universitatea „Politehnica" din Bucureşti, (2006-2008), beneficiar: Agenţia Managerială de Cercetare Ştiinţifică, Inovare şi Transfer Tehnologic
5. *Tehnologii avansate de încălzire rapidă în infraroşu a matriţelor pentru prelucrare la cald,* CEEX Nr. 217/2006, A.M.C.S.I.T. – Universitatea „Politehnica" din Bucureşti, (2006-2008), Beneficiar: Agenţia Managerială de Cercetare Ştiinţifică, Inovare şi Transfer Tehnologic
6. *Metode de modelare, simulare şi producţie virtuală bazată pe tehnologia informaţiei şi comunicării dedicată noii generaţii de sisteme de prelucrare reconfigurabile*, CEEX Nr. 22/2005 – INFOSOC Bucureşti, (2005-2007), beneficiar: INFOSOC
7. *Sisteme inteligente de prelucrare prin deformare plastică la rece în construcţie modulară (SINTDEF),* CEEX, A.M.C.S.I.T. – Universitatea „Politehnica" din Bucureşti, Nr. 24/2005 (2005-2007), beneficiar: Agenţia Managerială de Cercetare Ştiinţifică, Inovare şi Transfer Tehnologic
8. *Studii şi cercetări privind optimizarea presării unor materiale uşoare*, Nr. grant 27657/2005, tip A, cod C.N.C.S.I.S Nr. 752/2005, 2005-2006, Beneficiar: Consiliul Naţional al Cercetării Ştiinţifice din Învăţământul Superior
9. *Configurarea unui laborator de cercetare în domeniul sistemelor flexibile de prelucrare prin presare*, cod A.M.C.S.I.T., Nr. 1365/2001, 2001-2003, Beneficiar: Agenţia Managerială de Cercetare Ştiinţifică, Inovare şi Transfer Tehnologică
10. *Dezvoltarea unui program complex de pregătire postuniversitară prin doctorat în domeniul materialelor, tehnologiilor şi a echipamentelor pentru prelucrări prin deformare plastică*, cod C.N.C.S.I.S, Tip D, Nr. 21/1998, 1998-2001, Beneficiar: Banca Mondială şi Guvernul României
11. *Modernizarea maşinilor de rectificat şi ascuţit din fabricaţia şi exploatarea partenerilor industriali prin echiparea cu sisteme de comandă numerică*, Nr. 1841 / 2003, 2003-2005, Agenţia Managerială pentru Cercetare Ştiinţifică Inovare şi Transfer Tehnologic, AMCSIT Politehnica Bucureşti

**d) Lucrări care pun in evidență contribuția științifică:**

*Cărţi/manuale/monografii şi capitole în cărţi de specialitate*

1. **Girjob C.**, Cercetări privind deformarea plastică a unor materiale uşoare, Editura universitatii „Lucian Blaga" din Sibiu, Sibiu, 2015, ISBN 978-606-12-1013-8, 214 pg
2. S.G. Racz, R.E Breaz, M. Tera**, C. Gîrjob**, C. Biriș, A.L. Chicea, O. Bologa, Titanium Alloys for Biomedical Implants and Devices (capitol), editori carte: Hooyar Attar, Damon Kent, FING4, MDPI, 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

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1. 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 cotat Clarivate Analytics, Q1 – zonă rosie, (FI 2.259/2017), WOS:000443616400062
2. 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 cotat Clarivate Analytics, Q2 – zonă galbenă, (FI 2.601/2017), WOS:000469002200049
3. Breaz, R. E., Racz, S. G., **Girjob, 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, Online ISSN: 1757-899X, doi:10.1088/1757-899X/1009/1/012011
4. Breaz, R. E., Racz, S. G., **Girjob, 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, Online ISSN: 1757-899X, doi:10.1088/1757-899X/1009/1/012010
5. Breaz, R. E., Racz, S. G., **Girjob, C. E.**, Tera, M., & Biris, 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, vol. 968, 2020, p. 012024., doi:10.1088/1757-899X/968/1/012024
6. Marosan, A. I., Constantin, G., Barsan, A., Crenganis, M., & **Girjob, C.** *Creating an ethernet communication between a simatic S7-1200 PLC and arduino mega for an omnidirectional mobile platform and industrial equipment,* IOP Conference Series: Materials Science and Engineering, , vol. 968, 2020, p. 012022., doi:10.1088/1757-899X/968/1/012022
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8. Crenganis M.,Tera M., Biris C, **Gîrjob, C.,** *Dynamic Analysis of a 7 DOF Robot Using Fuzzy Logic for Inverse Kinematics Problem*, The 7th international conference on information

technology and quantitative management - ITQM 2019, vol. 163, pp 298-306, https://doi.org/10.1016/j.procs.2019.11.288, 2019, WOS:000514081500038

9. **C. Girjob,** G. Racz, *Study of the Formability of Laminated Lightweight Metallic Materials*, (Conference Paper MATEC Web of ConferencesVolume 121, 9 August 2017, Article number 030088th International Conference on Manufacturing Science and Education: Trends in New Industrial Revolution, MSE 2017; Lucain Blaga University of SibiuSibiu; Romania; 7 June 2017 through 9 June 2017; Code 129695 DOI: 10.1051/matecconf/201712103008 ISSN: 2261236X, WOS:000435283800036

10. Tera, M, Breaz, R.E., Racz, S.G., **Girjob, C**., Chicea, A. L., *Is Engineering a Male Specific Profession and How this Issue is Addressed at Lucian Blaga University of Sibiu*, INTED2016: 10th International Technology, Education and Development Conference, Book Series: INTED Proceedings Valencia, SPAIN, pp. 1907-1915, 2016, WOS:000402738401136

11. **C. Girjob,** O. Bologa, G. Racz, C. Biris, T*he Metal Forming Research Centre Of "Lucian Blaga" University Of Sibiu – Acting As Research And Technology Transfer Pole*, 7th International Conference on Education and New Learning Technologies, 6-8 July, 2015, Barcelona, Spain, ISBN 978-84-606-8243-1, ISSN 2340-1117, pp. 5086-5092, http://library.iated.org/view/GIRJOB2015MET , WOS:000376685705021

12. Chicea, A., Breaz, R.E., **Gîrjob, C.**, Biris, C., Bologa, O., C*ombining Engineering and Medical Knowledge for Manufacturing Medical Devices Using CAD/CAE/CAM Techniques*, 7th International Conference of Education, Research and Innovation, 17-19 November, 2014, Seville, Spain, ISBN 978-84-617-2484-0, ISSN 2340-1095, pp. 388-397, https://library.iated.org/view/CHICEA2014COM, WOS:000367082900056

13. Tera, M., Racz, S.G., Tirnovean, S., Biris, C. , **Gîrjob, C.**, *Training Specialists Able o Implement the Incremental Forming Process at Industry Level,* 7th International Conference of Education, Research and Innovation, 17-19 November, 2014, Seville, Spain, ISBN 978-84-617-2484-0, ISSN 2340-1095, pp 494-5 https://library.iated.org/view/TERA2014TEA, WOS:000367082900070

14. Breaz, R.E., Bologa, O.C., Racz, G.S., Oleksik, V.S., **Girjob, C.,** *Simulation approach for improving CNC milling machines accuracy for single axis motio*n, ISIE 2010, 2010 IEEE International Symposium on Industrial Electronics, Bari, Italy, 4-7 July 2010, pp. 1760 - 1764, ISBN 978-1-4244-6390-9 2010, WOS:000295007802047

15. Breaz, R.,E., Bologa, O., Biris, Cristina, Racz, G., **Girjob, Claudia**, Oleksik, V., *Method for Improving the Contouring Accuracy for CNC Profiling Machines at the Shop Floor Level*, The 7th IEEE International Conference on Industrial Informatics, INDIN 2009, 24-26 iunie 2009, Cardiff, Marea Britanie, pp. 813-818, ISBN 978-1-4244-3760-3, ISSN 1935-4576, IEEE Catalog Number: CFP09INI-CDR, WOS:000274890100137

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1. Marosan, I. A., Constantin, G., Biris, C., & **Girjob, C**., *A Model Locomotion System for Mobile Platforms Omnidirectional Serving the Industrial Environment*, *Acta Universitatis Cibiniensis. Technical Series*, *72*(1), 23-30, 2020, doi: https://doi.org/10.2478/aucts-2020-0004 (Index Copernicus, INSPEC, EBSCO, ProQuest)

2. **Girjob C.,** *Cercetări privind îmbunătățirea comportării la deformare plastică a materialelor metalice cu plasticitate scăzută*, Buletinul AGIR, nr.4, p 154-159, 2017 (INDEX COPERNICUS INTERNATIONAL, ACADEMIC KEYS, getCITED)
3. Biris C**., Girjob C**., Bologa O., *Researches Regarding Optimizing the Accuracy of CNC Laser Cutting Machines*, Applied Mechanics and Materials, Volumul 809, pp. 333-338, Trans Tech Publications, 2015 (Inspec, CSA, ProQuest, Ulrichsweb, EBSCOhost, Index Copernicus)
4. **C. Girjob**, G. Racz, O. Bologa and C. Biris, *FEM Simulation of Laminated Lightweight Materials Processed through Single Point Incremental Forming*, Applied Mechanics and Materials, ISSN 1660-9336, vol. 772, pp. 38-43, 2015, doi:10.4028/www.scientific.net/AMM.772.38,
5. **Girjob C**., Bologa O., Racz S.G., Biris C., *Experimental Research of the Formability of Lightweight Metallic Materials Used in Automotive Industry*, Applied Mechanics and Materials, Volum 760, pp. 391-396, 2015, DOI: 10.4028/www.scientific.net/AMM.760.391, Trans Tech Publications Ltd, ISBN 978-3-03835-443-7, ISSN 1660-9336
6. Biris C.; Bologa O., **Girjob C**., Racz S.G., *Considerations on Cutting Regime Influence of NC Laser Cutting Machine Tool on Processed Surface Quality*, Applied Mechanics and Materials, Volum 760, pp. 475-481, 2015, DOI: 10.4028/www.scientific.net/AMM.760.475, Trans Tech Publications Ltd
7. **Girjob Claudia**, Gabriel Racz, Octavian Bologa, Cristina Biris, *Study of the Formability of Light Metallic Materials*, Applied Mechanics and Materials, Vols. 809-810, 2015, pp 289-294 Trans Tech Publications, Switzerland, doi:10.4028/www.scientific.net/AMM.809-810.289, ISBN 978-3-03835-663-9, ISSN 1660-9336 (Index Copernicus, CSA, INSPEC, EBSCO, ProQuest)
8. **Gîrjob Claudia**, Bologa Octavian, Racz Gabriel, Biris Cristina, *New research on composite materials at the Metal Forming*, Supliment Buletinul AGIR, ISSN-L 1224-7928, Editura AGIR, Bucuresti, Romania, an XX, nr. 2/2015, iunie 2015 (indexare Copernicus, http://journals.indexcopernicus.com/karta.php?action=masterlist&id=5724, http://www.buletinulagir.agir.ro/articol.php?id=838
9. Biriş, C., Bologa, O., & **Gîrjob, C**., *Researches on improving the manufacturing accuracy of CNC cutting machines*., Supliment Buletinul AGIR, ISSN-L 1224-7928, Editura AGIR, Bucuresti, Romania, an XX, nr. 2/2015, iunie 2015 pp 52-56 (indexare Copernicus, http://journals.indexcopernicus.com/karta.php?action=masterlist&id=5724, http://www.buletinulagir.agir.ro/articol.php?id=838 (INDEX COPERNICUS INTERNATIONAL, ACADEMIC KEYS, getCITED)
10. **Girjob Claudia**, *Numerical Simulation By Means Of Finite Element Method Of Plastic Deformation Processes Of Lightweight Metallic Materials*,, Acta Universitatis CIBINIENSIS-Technical Series, vol. LXVII, ISSN 583-7149 Sibiu, 2015 (Index Copernicus, INSPEC, EBSCO, ProQuest)
11. Biriş, C., Breaz, R.E., **Gîrjob, C**., Chicea, A., *Researches Regarding Optimising the Contouring Precision of CNC Laser Cutting Machines*, 9th International Conference on Modeling and Optimization of the Aerospace, Robotics, Mechatronics, Machines-Tools, Mechanical Engineering and Human Motricity Fields, OPTIROB 2014,Mangalia, Romania, 26-29 June 2014, Applied Mechanics and Materials, Vol 555, pp. 580-585, (Scopus, Index Copernicus, CSA, INSPEC, EBSCO, ProQuest), 10.4028/www.scientific.net/AMM.555.580

12. **Girjob C.** *The Study of the Formability of Lightweight Metallic Materials*, Academic Journal of Manufacturing of Engineering – AJME, ISSN 1583-7904. 2014, Vol. 12 Issue 3, p110-115. 6p. (Scopus)
13. Bologa, O., Chicea, A., Breaz, R.E., Racz, G.S., **Girjob, C**., Biriş, C., *Studiul regimului de conturare al maşinilor unelte de ştanţat cu comandă numerică*, Buletinul AGIR, nr. 4/2010, ISSN-L 1224-7928, 2010 (indexare Copernicus, http://journals.indexcopernicus.com/karta.php?action=masterlist&id=5724
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15. Breaz, R.E., Bologa, O., Racz, G., Oleksik, V., **Gîrjob, C**., L*ow-cost solutions for manipulation tasks in manufacturing systems: balancing costs and performances*, Proceedings of the 5th International Federation of automatic Control (IFAC) Conference on Management and Control of Production and Logistics MCPL, Coimbra, Portugal, September 8-10, 2010, ISSN 1474-667, 2010 (Scopus, http://www.ifac-papersonline.net/Detailed/44607.html )
16. **Gîrjob, C**., Racz, S.G., Bologa, O., T*he Determination of the Forming Limit Curve Using a Modular Device,* Academic Journal of Manufacturing Engineering, Volume 8/2010, Issue 2, Editura Politehnica, Timisoara, ISSN 1583-7904, pp. 39-44, 2010, (http://www.eng.utt.ro/auif/journal_vol_8_2010_no_2.html ) (Scopus)
17. Bologa, O., **Girjob, C**., Racz, S-G., Turcu, N., Blaga, A. *Modular Device for Determining Forming Limit Curves – A Cost Effective Aproach*, Proceedings of the 5th International Federation of automatic Control (IFAC) Confeence on Management and Control of Production and Logistics MCPL, ISSN 1474-667, 10.3182/20100908-3-PT-3007.00081, 2010, septembrie, pp355-360, Scopus, http://www.ifac-papersonline.net/Detailed/44613.html
18. **Girjob, C**., Bologa, O., Racz, S.G., *Study of the formability of metallic material with low plasticity*, În: Acta Universitatis Cibiniensis - Technical Series, Vol. LII, ISSN 1583-7149, Sibiu, pp. 85-88, 2005. http://www.degruyter.com/view/j/aucts

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1. **Girjob C**., *Cercetari privind Comportarea la Prelucrarea prin Deformare Plastică a unor Materiale Usoare*, Conferinţa Internaţionala Joint International Conference of Doctoral and Post-Doctoral Researchers, Craiova, 12-13 septembrie 2014
2. Biriş, Cristina, Bologa, O., Breaz, R.E., **Gîrjob, Claudia**, *Considerations Regarding the Precision of CNC Laser Cutting Machines*, Proceedings of the 4rd International Conference on Manufacturing Science and Education/ MSE Sibiu 2009, Volume I, , June, 2009, ISSN 1843 – 2522, 159-162, 2009
3. Breaz, R. E., Bologa, O. C., Racz, G. S., **Gîrjob, C.,** Biriş, C., *Determination of the Kinematic Dependencies Between the Movements for a Retrofitted Hob Sharpenining Machine*, Proceedings of the International Conference on Manufacturing Systems – ICMaS, Bucharest, 13-14 November, 2008, Published by Editura Academiei, ISSN 1842-3183, pp. 213-218, 2008
4. Racz, G. S., Bologa, O. C., Breaz, R. E., **Gîrjob, C**., *Comparative Study Regarding the Linking Elements in the Finite Elements Models*, Proceedings of the International Conference on Manufacturing Systems – ICMaS, Bucharest, 13-14 November, 2013, Published by Editura Academiei, ISSN 1842-3183, pp. 363-366, 200
5. Bologa, O. C., Breaz, R. E., Racz, G. S., Oleksik, V., **Gîrjob, C**., Biriş, C, *Researches Regarding the Feed Drives of a Profiling Equipment, Conference Excellence Research – A*

*Way to Inovation*, Braşov, 2008, http://inovare.amcsit.ro/conferinta/2008/downloads/Conference_Programme.pdf, 2008
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8. **Girjob, C.,** Bologa, O., Racz, S.G., *Determination Metods of the Formability of Metalic Material with Low Plasticity,* Proceedings of the 15th International Conference on Manufacturing Systems – ICMaS, Bucharest, 26-27 October, 2006, Published by Editura Academiei, ISSN 1842-3183, p. 391-394, 2006;
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1. Mladomir Milutinović, Robert Lendjel, Sebastian Baloš, Danka Labus Zlatanović, Luka Sevšek, Tomaž Pepelnjak, Characterisation of geometrical and physical properties of a stainless steel denture framework manufactured by single-point incremental forming, Journal of Materials Research and Technology, Volume 10, 2021, Pages 605-623, ISSN 2238-7854,https://doi.org/10.1016/j.jmrt.2020.12.014, citeaza:

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Tera, M., Breaz, R. E., Racz, S. G., & **Girjob, C. E**, *Processing strategies for single point incremental forming a CAM approach*. The International Journal of Advanced Manufacturing Technology, 102(5-8), 1761-1777

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*Membru în colectivele de redacţie sau comitete ştiinţifice al revistelor şi manifestărilor ştiinţifice / recenzor pentru reviste şi manifestări naţionale şi internaţionale indexate ISI*

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4. Recenzor Applied Sciences, MDPI, cotată ISI (Q2),
5. Recenzor International Conference on Manufacturing Science and Education MSE, cotată ISI

*Cerere de brevet de invenție*

*Sistem modular flexibil de fixare a semifabricatelor pentru procedeul de deformare incrementală,* Racz Sever-Gabriel, Breaz Radu, Oleksik Valentin, Pascu Adrian, Popp Ilie, **Gîrjob Claudia**, Tera Melania, Chicea Anca, Biriș Cristina Maria, Crenganiș Mihai, 2020