

LISTA DE LUCRĂRI
Sl.dr. ing Biris Cristina Maria
(2007-2021)

Cursuri pe suport tipărit sau digital (cu ISBN) existente la nivel de domeniu/specializare

Racz G., Gîrjob C., Biriş C., Sisteme hidraulice de acţionare, Îndrumar de laborator, ed. Univ. Lucian Blaga din Sibiu, ISBN 978-606-12-1293-4, 2016

Oleksik V., Turcu N., Biriş C., Tehnologi și sisteme de prelucrare a materialelor plastice. Îndrumar de laborator, ed. Univ. Lucian Blaga din Sibiu, ISBN 978-606-12-1008-4, 2015

Lucrări în reviste cotate ISI cu scor relativ de influență

2018

Racz S.G., Breaz R.E., Tera M., Gîrjob C., Biriş C., Chicea A., Bologa O.C., Incremental forming of titanium Ti6Al4V alloy for cranioplasty plates—decision-making process and technological approaches, *Metal*, Volume 8, Issue 8, 9 August 2018, Article number 626, ISSN: 20754701, DOI: 10.3390/met8080626, SJR 0.55, SNIP 0.955, Cite Score 1.92

Lucrări în reviste cotate ISI cu factor de impact

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Articole indexate ISI Proceedings

2021

Crenganiş M., Breaz R. E., Racz S. G., Biriş C. M., Gîrjob C. E. and Maroşan A. I., Development of a lightweight multipurpose high mobility vehicle for use in confined spaces, *International Automatic Control Conference (CACCS)*, pp. 1-6, doi: 10.1109/CACCS52606.2021.9638701, 2021.

Crenganiş M., Biriş C.M., Gîrjob C.E., *Mechatronic Design of a Four-Wheel drive mobile robot and differential steering*, *MATEC Web of Conferences*, vol. 343, 08003, <https://doi.org/10.1051/matecconf/202134308003>, 2021

2020

Rusu D.M., Biriş C.M., Ianosi-Andreeva-Dimitrova A., Pirpidel E., *The design of an animatronic humanoid robotic head*, *Acta Technica Napocensis*, vol. 63, nr.4., pp. 461-466, ISSN: 1221-5872, 2020

Breaz R. E., Racz S. G., Gîrjob C. E., Tera M. and Biris C., *Using open source software CNC controllers and modular multi-axis mechanical structure as integrated teaching environment for CAD/CAM/CAE training*, *The 6th International Conference on Advanced Manufacturing Engineering and Technologies NEWTECH 2020, Sept. 09-11, Galați*, IOP Conf. Series: Materials Science and Engineering 968, 012024 doi:10.1088/1757-899X/968/1/012024, 2020

Popp M. O., Rusu G. P., Oleksik V. and Biris C., *Influence of vertical step on forces and dimensional accuracy of SPIF parts – a numerical investigation*, *The 6th International Conference on Advanced Manufacturing Engineering and Technologies NEWTECH 2020, Sept. 09-11, Galați*, IOP Conf. Series: Materials Science and Engineering 968, 012020 doi:10.1088/1757-899X/968/1/012020, 2020

2019

Biris C, Oleksik M., *Study about mechanical properties of materials obtained by thermoforming*, International Conference on Technologies for Polymeric and Composite Products – POLCOM 2018/ Materials Science Forum, ISBN 978-3-0357-1549-1, pp. 389-398, <https://doi.org/10.4028/www.scientific.net/MSF.957.389>, 2019

Tera M., Biris C, *Comparison between deep-drawing and incremental forming processes from an environmental point of view*, 9th International Conference on Advanced Manufacturing Technologies – ICAMAT2018, ISBN 978-3-0357-1549-1, pp. 120-129, <https://doi.org/10.4028/www.scientific.net/MSF.957.120>, 2019

Paltan R.D, Biris C, Radulescu LA. M, *Industrial processes efficiency and lower energy consumption initiatives through advanced retrofitting in the wood industry*, Materials Science and Engineering , 564 (2019) 012096, IOP Conference Series: Materials Science and Engineering 564 (1), 012096, <https://doi:10.1088/1757-899X/564/1/01209> , 2019

Paltan R.D, Biris C, Radulescu LA. M, *Monitoring the technological processes in the wood industry in order to make them more efficient through technical overhauling*, 9th International Conference on Manufacturing Science and Education – MSE 2019 “Trends in New Industrial Revolution”, pp.2007, <https://doi.org/10.1051/mateconf/201929002007>, 2019

Luca D., Biris C., Luca D., *Electromagnetic forming analysis of the Al 99.0 sheet with tools of different configurations*, 9th International Conference on Manufacturing Science and Education – MSE 2019 “Trends in New Industrial Revolution”, pp. 3010, <https://doi.org/10.1051/mateconf/201929003010>, 2019

Tera M., Gîrjob, C., Biris C, Crenganis M., *Modular fastening system and tool-holder working unit for incremental forming*, MATEC Web of Conferences, MTeM 2019, ISBN: 978-2-7598-9083-5, vol 299, p 05005, <https://doi.org/10.1051/mateconf/201929905005>, 2019

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

2017

Biris C, Racz G., *Researches regarding the reducing of burr size by optimising the cutting parameters on a CNC milling machine*, MATEC Web of Conferences vol.112, IManE&E, Iasi, 2017, Article number 01006, doi: 10.1051/mateconf/201711201006, 2017

Paltan R.D, Biris C, Radulescu LA. M, *Comparative study between different methods for the efficiency of the production activity in the wood industry*, MATEC Web of Conferences Volume 121, 9 August 2017, 8th International Conference on Manufacturing Science and Education: Trends in New Industrial Revolution, MSE 2017, Article number 02009, Code 129695, ISSN: 2261236X, DOI: 10.1051/mateconf/201712102009, WOS:000435283800027, 2017

2016

Breaz R.E., Racz S.G., Tera M., Bologa O.C., Biriş C., *Making Mechatronics Study Programme at “Lucian Blaga” University of Sibiu Available for International Students*, International Technology, Education and Development Conference, INTED 2016, 7-9 Martie 2016, Valencia, pp 1536-1543, ISSN: 2340-1079 ISBN: 978-84-608-5617-7, doi: 10.21125/inted.2016.1330, 2016

2015

Biris C., Gîrjob C., Bologa O., *Researches Regarding Optimizing The Accuracy Of Cnc Laser Cutting Machines*, Applied Mechanics and Materials, Vol 809-810, pp 333-338, ISSN print 1660-9336, ISSN web 1662-7482, doi:10.4028/www.scientific.net/AMM.809-810.333, <http://www.imane.ro/>, 2015

Gîrjob, C., Racz. G., Bologa, O., Biriş, C., *Study Of The Formability Of Light Metallic Materials*, Applied Mechanics Materials, Vol 809-810, pp 289-294, doi:10.4028/www.scientific.net/AMM.809-810.289, 2015

Gîrjob, C., Racz. G., Bologa, O., Biriş, C., *FEM Simulation of Laminated Lightweight Materials Processed through Single Point Incremental Forming*, Applied Mechanics Materials, Vol 772, pp 38-43, doi:10.4028/www.scientific.net/AMM.772.38, 2015

Gîrjob, C., Racz. G., Bologa, O., Biriş, C., *The Metal Forming Research Centre of "Lucian Blaga" University of Sibiu – Acting as Research and Technology Transfer Pole*, Proceedings of Education, Research and Innovation, pp , ISBN:978-84-606-8243-1, Barcelona, 6-8 Iulie, 2015

2014

Biris C., Breaz R., Gîrjob C., Chicea A., *Researches Regarding Optimising the Contouring Precision of CNC Laser Cutting Machines*, Applied Mechanics and Materials, Vol 555, pp 580-585, ISSN print 1660-9336, ISSN web 1662-7482, 10.4028/www.scientific.net/AMM.555.580, <http://www.optirob.com/>, 2014

Biriş, C., Bologa, O., Gîrjob, C., Racz. G., *Considerations on Cutting Regime Influence of NC Laser Cutting Machine Tool on Processed Surface Quality*, Applied Mechanics and Materials, Bucuresti, <http://www.tcm.pub.ro/TCM60/index.php/ro/>, 2014

Gîrjob, C., Bologa, O., Racz. G., Biriş, C., *Experimental Research of The Formability of Lightweight Metallic Materials Used in Automotive Industry*, Applied Mechanics and Materials, Bucuresti, <http://www.tcm.pub.ro/TCM60/index.php/ro/>, 2014

Chicea, A., Breaz, R.E., Gîrjob, C., Biris, C., Bologa, O., *Combining Engineering and Medical Knowledge for Manufacturing Medical Devices Using CAD/CAE/CAM Techniques*, Proceedings of Education, Research and Innovation, pp 388-397, Seville, Spain, 17-19 November, 2014, Seville, Spain, 17-19 November, 2014

Tera M., Racz S.G., Tirnovean S., Biris C., Gîrjob C., *Training Specialists Able to Implement the Incremental Forming Process at Industry Level*, Proceedings of Education, Research and Innovation, pp 479-486, Seville, Spain, 17-19 November, 2014, Seville, Spain, 17-19 November, 2014

2012

Tera, M., Deac, C., Oleksik, V., Bologa, O., Breaz, R., Biris, C., 2012, *Comparative Study by Numerical Analysis on the Formability of Deep-Drawn Tailor-Welded Blanks*, Advanced Materials Research, Trans Tech Publications LTD, Laublsrutistr 24, CH-8717 STAFA-Zurich, Switzerland Volume: 463-464, 2012, pp 582-586, ISSN 1022-6680, ISBN 978-3-03785-363-4, DOI: 10.4028/www.scientific.net/AMR.463-464.582

Tirnovean, S., Breaz, R.E., Biris, C., Bologa, O.C., 2012, *Simulation tools for studying the behavior of CNC laser cutting machines in different working regimes*, 16th International Conference on System Theory, Control and Computing (ICSTCC 2012), Sinaia, Romania, October 12-14, 2012, pp 1-6, ISBN 978-1-4673-4534-7, <http://www.aie.ugal.ro/icstcc2012>,

Breaz, R.E., Tirnovean, S., Biris, C., Bologa, O.C., 2012, *Improving the Dynamic Behavior and Working Accuracy of the CNC Laser Cutting Machines*, 12th International Conference on Control, Automation, Robotics and Vision, (ICARCV 2012), Guangzhou, China December 5-7, 2012, pp 1642-1647, ISBN 978-1-4673-1870-9, DOI 10.1109/ICARCV.2012.6485437, <http://www.icarcv.org/2012>

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Breaz, R.E., Bologa, O., Biris, Cristina, Racz, G., Gîrjob, Claudia, Oleksik, V., 2008, *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 (ISI Proceedings, Engineering Village: Inspec), http://apps.webofknowledge.com/ux4ll8xu6v.useaccesscontrol.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=4&SID=1DNA7A4@HAGnDE1g3eJ&page=1&doc=3&cacheurlFromRightClick=no

Deac, C., Tera, M., Bibu, M., Biriş, C., *Analytical Approach to Determining the Optimal Shape of the Casting Sprue for Small-Size Metallic Parts*, Annals of DAAAM for 2009 & Proceedings of the 20th International DAAAM Symposium, Editor B. Katalinic, Published by DAAAM International, Vienna, Austria, ISBN 978-3-901509-70-4, ISSN 1726-9679, pp

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2009,

http://apps.webofknowledge.com.ux4ll8xu6v.useaccesscontrol.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=10&SID=1DNA7A4@HAGnDE1g3eJ&page=1&doc=3&cacheurlFromRightClick=no

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http://apps.webofknowledge.com.ux4ll8xu6v.useaccesscontrol.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=20&SID=1DNA7A4@HAGnDE1g3eJ&page=1&doc=2&cacheurlFromRightClick=no

2008

Biriş, 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, ISBN 978-3-901509-68-1, ISSN 1726-9679, pp. 101-102, editor B. Katalinic,

http://apps.webofknowledge.com.ux4ll8xu6v.useaccesscontrol.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=10&SID=1DNA7A4@HAGnDE1g3eJ&page=1&doc=9&cacheurlFromRightClick=no

Deac, C., Bibu, M., Petrescu, V., Tera, M., Biriş, C., *Assessment of the Quality of Casting Nonferrous Small-Size Parts by Numerical Simulation*, (2008). 0361-0362, Annals of DAAAM for 2008 & Proceedings of the 19th International DAAAM Symposium, ISBN 978-3-901509-68-1, ISSN 1726-9679, pp. 361-362, editor B. Katalinic,

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Articole în volumele conferințelor ERA

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Articole în reviste indexate BDI

2020

Marosan I.A., Constantin G., Biriş C., Gîrjob C., *A Model Locomotion System for Mobile Platforms Omnidirectional Serving the Industrial Environment*, Acta Universitatis Cibiniensis. Technical Series, vol.72., nr.1, pp.23-30, ISSN 1583-7149, DOI: 10.2478/aucts-2020-0004, 2020

2019

Păltan R D., Rădulescu AM., Biriş C.M., *State of Research on the Optimization of the Production Management Process Through Total Quality Management Methods in Wood Industry*, PRO LIGNO vol.15, n4., ISSN 1841-4737, pp 337-344, 2019

2018

Oleksik, M., Biriş C., *The Influence Of The Silicone Layer On Polyamide 6.6 Fabrics Subjected To Uniaxial And Equibiaxial Tensile Tests*, Academic Journal of Manufacturing Engineering, Volume 16 , Issue 4, pp.161, ISSN 1583-7904, 2018,

Gavriluță A. C., Nițu E.L., Gavriluță A., Anghel D.C, Stănescu N.D., Radu M. C., Crețu Gh., Biriş C., Paunoiu V., *The development of a laboratory system to experiment methods to improve the production flows*, Proceedings in Manufacturing Systems, Volume 13 , Issue 3, pp.127-132, ISSN 2067-9238

2017

Biris C., *Precizia Mașinilor Unelte de Debitare cu Laser*, Știință și Inginerie, Volume 32, pp. 239-246, ISSN 2067-7138, 2017,

Paltan R.D., Radulescu L.A.M, Biris C.M, *Economical Engineering Aspects Applied in the Managerial Decision for the Implementation of an Optimization Method to Streamline the Processes in the Wood*, International Conference ICWSE Proceedings, Brasov, vol. 2, pag 783-792, ISSN 1843-2689, 2017

Paltan R.D., Biris C.M, Radulescu L.A.M, *Fundamentarea Deciziei Manageriale în Procesul de Producție a Panourilor de Lemn pentru Fabricarea Mobilei printr-o Metoda de Optimizare Statistică*, Buletinul AGIR, Nr , pp, ISSN - L 1224-7928, 2017

2016

Biris C., *Considerations on Manufacturing Accuracy and Surface Quality of NC Laser Cutting Machine Tools*, Academic Journal of Manufacturing Engineering, VolumeXII, Issue 3/2014, pp. 33-39, ISSN 1583-7904, 2016 (SCOPUS)

2015

Biris C., Girjob C., Bologa O., *Researches on Improving the Manufacturing Accuracy of CNC Cutting Machines*, Buletinul AGIR, Nr S2, pp 52-56, ISSN - L 1224-7928, 2015

Girjob, C., Bologa, O., Racz. G., Biriș, C., *New Research on Composite Materials at the Metal Forming Research Centre*, Buletinul AGIR, Nr S2, pp 57-62, ISSN - L 1224-7928, 2015

Biris C., *Study of a Forming Equipment by Means of Termoforming of Plastic Parts*, Buletinul AGIR, Nr S3, pp 152-154, ISSN - L 1224-7928, 2015

Biris C., *Study on a CNC Cutting Machines to Improve the Accuracy*, Buletinul AGIR, Nr S3, pp 155-158, ISSN - L 1224-7928, 2015

2014

Biris, C., *Improving the Manufacturing Accuracy of CNC Laser Machines*, Academic Journal of Manufacturing Engineering, VolumeXII, Issue 3/2014, pp. 104-109, ISSN 1583-7904, 2014

2013

Breaz R.E. , Biris C, Bologa O, Tirnovan S., *Studying the behavior of cnc laser cutting machines in the contouring regime*, Studying the behavior of cnc laser cutting machines in the contouring regime, Vol. 8, Nr.3, pp. 165-170, ISSN 2067-9238, 2013, (indexare Copernicus), <http://www.journals.indexcopernicus.com/passport.php?id=7147>

2012

Tera, M., Deac, C., Oleksik, V., Bologa, O., Breaz, R., Biriș, C., *Comparative Study by Numerical Analysis on the Formability of Deep-Drawn Tailor-Welded Blanks*, Advanced Materials Research II, Vols. 463-464, editat de Trans Tech Publications, pp. 582-586, Switzerland ISBN 978-1-4244-8867-4, 2010 (CSA, Scopus, EI Compendex), <http://www.scientific.net/AMR.463-464.582>

2010

Biriș, C., Marinescu, V., Bologa, O., Breaz, R.E., Deac, C., Tera, M., *Improving the Manufacturing Accuracy of the Profiling Machines*, 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/44605.html>)

Bologa, O., Chicea, A., Breaz, R.E., Racz, G.S., Gîrjob, 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>, <http://www.buletinulagir.agir.ro/articol.php?id=838>)

Deac, C, Tera, M, Biriş, C., Bibu, M., Oleksik, V., *Aspects of Improving the Cost-Performance Ratio for the Manufacturing of Small-Size Cast Parts*, 5th Conference on Management and Control of Production Logistics - MCPL 2010, Coimbra, Portugalia, ISBN 978-3-902661-81-4, 2010 (Scopus, <http://www.ifac-papersonline.net/Detailed/44611.html>)

Deac C., Tera M., Biriş C., *Theoretical and experimental researches on the castability and suitability of dental alloys*, Academic Journal of Manufacturing Engineering, vol. 8, nr. 2, pp. 26-31, ISSN 1583-7904, (Scopus, <http://www.scopus.com/inward/record.url?eid=2-s2.0-79960254305&partnerID=40&md5=5d262654322d4e104c9b3135f7449dc0>)

Articole în volumele unor conferinţe profesionale

2014

Biriş, C., Bologa, O., Gîrjob, C., *Researches on improving the manufacturing accuracy of CNC cutting machines*, Conferinta Zilele Academiei de Ştiinţe Tehnice din România, ediţia a 9-a, <http://conferences.ulbsibiu.ro/astr2014/>, 2014

Gîrjob, C., Bologa, O., Racz, G., Biriş, C., *New research on composite materials at the Metal Forming Research Centre*, Conferinta Zilele Academiei de Ştiinţe Tehnice din România, ediţia a 9-a, <http://conferences.ulbsibiu.ro/astr2014/>, 2014

2010

Tera, M., Deac, C., Oleksik, V., Bologa, O., Breaz, R., Biriş, C., *Comparative Study by Numerical Analysis on the Formability of Deep-Drawn Tailor-Welded Blanks*, Proceedings of the International Conference on Mechanical Engineering, Robotics and Aerospace, Bucureşti, p. 75-78, ISBN 978-1-4244-8867-4, 2010

2009

Biriş, C., Bologa, O., Breaz, R.E., Gîrjob, C., 2009, *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

Deac, C., Bibu, M., Tera, M., Biriş, C., *Critical analysis of the currently available systems for casting small-size parts made of titanium alloys*, Proceedings of the 4rd International Conference on Manufacturing Science and Education MSE 2009, Sibiu, 2009, pp. 271-274, ISSN 1843-2522 S (*The Minerals, Metals & Materials Society*)

2008

Biriş, C., Tera, M., Şerb, S., *Considerations on the Precision of NC Machine-Tools Used for Non-Conventional Cutting Operations*. Proceedings of the 17th International Conference on Manufacturing Systems – ICMaS 2008, Bucureşti, Editura Academiei Române, ISSN 1842-3183, pp. 139-142, 4 pg., 2008

Biriş, C., Bologa, O., Breaz, R.E., *Researches regarding the accuracy of a profiling machine*, 2nd International Conference on Computing and Solutions in Manufacturing Engineering - CoSME'08, Braşov, 2008

Biriş, C., Deac, C., Tera, M., *Considerations on the Choice of the Cutting Method and Technique Employed for the Cutting of Parts Made of Titanium Alloys*. 17th International Metallurgical and Materials Conference "METAL 2008", Ostrava, Cehia, ISBN 978-80-254-1987-8, 5 pg., 2008

Bologa, O., Breaz, R.E., Biriş Cristina, *The Mathematical Model of a Feed Drive from a Profiling Machine*. 2nd International Conference Computing and Solutions in Manufacturing Engineering - COSME 2008, Braşov, 2008.

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 Sharpening Machine*, Proceedings of the International Conference on Manufacturing Systems – ICMaS, Bucharest, 13-14 November, 2008, Published by Editura Academiei, 2008, pp. 213-218, ISSN 1842-3183.

Bologa, O., Breaz, R. E., Biriş, Cristina, *The Mathematical Model of a Feed Drive From a Profiling Machine*, Academic Journal of Manufacturing Engineering, Volume 6, Issue 4/2008, Editura Politehnica, Timisoara, ISSN 1583-7904, pp. 12-16, 2008

Deac, C., Biriş, C., *Variation of Microstructure-Related Features in Mild Steels as a Result of Applying Laser Cutting Operations with Different Processing Parameters*. Acta Universitatis Cibiniensis - Technical Series, vol. LVI, Sibiu, ISSN 1583-7149, pp. 13-16, 4 pg., 2008 (recunoscută CNCSIS, categoria B)

Deac, C., Tera, M., Biriş, C., *Studies Regarding the Optimisation of the Sprue Design at the Casting of Small-Size Parts Made of Nonferrous Alloys*. 17th International Metallurgical and Materials Conference "METAL 2008", Ostrava, Cehia, 6 pg., 2008, ISBN 978-80-254-1987-8.

Tera, M., Biriş, C., Deac C., *Considerations on the Selection of Materials for the Realising of Deep-Drawn Bimetallic Parts*. 17th International Metallurgical and Materials Conference "METAL 2008", Ostrava, Cehia, ISBN 978-80-254-1987-8, 5 pp., 2008.

2007

Deac, C., Biriş, C., Tera, M., *Aspects of Modern Procedures for thermal cutting and Welding of Small-Sized Titanium-Based Parts*, Academic Journal of Manufacturing Engineering, Supplement Nr. 2/2007, Editura Politehnica Timişoara, ISSN 1583-7904, p.21-25, 4 pg., 2007 (recunoscută CNCSIS, categoria B, a devenit B+ doar în 2010)

Monografii

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Contracte de cercetare naţionale (CNCS) şi internaţionale. Contracte POSDRU

Naţionale					
Nr. crt	Anul	Contract	Valoare	Calitatea ULBS în proiect	Echipa
1.	2007	A 752/2005, CNCSIS, <i>Studii si cercetări privind optimizarea unor materiale uşoare</i> , 2005-2007 Director: Bologa Octavian	13.900 / 2007	membru	Bologa Octavian, Breaz Radu, Racz Gabriel, Gîrjob Claudia
2.	2007	CEEX 24/2005, AMCSIT, Bologa Octavian, <i>Sisteme inteligente de prelucrare prin deformare plastică la rece în construcţie modulară</i> , 2005-2007 Director: Bologa Octavian	459.800 / 2007	membru	Bologa Octavian, Breaz Radu, Racz Gabriel, Oleksik Valentin, Gîrjob Claudia
3.	2007	CEEX 22/2005, CNMP, <i>Metode de</i>	50.000 / 2007	membru	Bologa

		<i>modelare, simulare și producție virtuală bazată pe tehnologia informației și comunicării dedicată noii generații de sisteme de prelucrare reconfigurabile, 2005-2007</i> Director din partea ULBS: Bologa Octavian			Octavian, Breaz Radu, Racz Gabriel, Gîrjob Claudia
4.	2007-2008	CEEX 130/2006, AMCSIT, Bologa Octavian, <i>Materiale, tehnologii și echipamente pentru profilări plane și spațiale – MATEPROF, 2006-2008</i> Director: Bologa Octavian	472.000 / 2007 868.000 / 2008	membru	Bologa Octavian, Breaz Radu, Racz Gabriel, Oleksik Valentin, Gîrjob Claudia
5.	2007-2008	CEEX 217/2006, AMCSIT, <i>Tehnologii avansate de încălzire rapidă în infraroșu a matrițelor pentru prelucrare la cald, 2006-2008</i> Director din partea ULBS: Bologa Octavian	25.000 / 2007 115.000 / 2008	membru	Bologa Octavian, Breaz Radu, Racz Gabriel, Gîrjob Claudia
6.	2007-2009	71-011/2007, CNMP, <i>Tehnologie integrată de evaluare și compensare a erorilor sistemelor de prelucrare (TINCOMP), 2007-2009</i> Director: Bologa Octavian	1.130.000 / toată perioada	membru	Bologa Octavian, Breaz Radu, Racz Gabriel, Oleksik Valentin, Gîrjob Claudia
7.	2008	124/2007, ANCS, <i>Dezvoltarea infrastructurii de cercetare a unui laborator pentru testarea materialelor avansate utilizate în producția de caroserii auto (TESTMAT), 2008</i> Director: Bologa Octavian	975.500 / 2008	membru	Bologa Octavian, Breaz Radu, Racz Gabriel, Oleksik Valentin, Gîrjob Claudia
8.	2009 - 2011	72-206/2008, CNMP, <i>Sisteme agabaritice de control al mișcării plane și spațiale utilizabile în industria autovehiculelor – AGAMIS, 2009-2011</i> Director: Bologa Octavian	1.421.175 / toată perioada	membru	Bologa Octavian, Breaz Radu, Racz Gabriel, Oleksik Valentin, Gîrjob Claudia, Biriș Cristina, Tera Melania
9.	2007-2008	154/2007, CNCSIS, Biriș Cristina, <i>Contribuții privind analiza constructiv funcțională a sistemelor de debitare cu comandă numerică, 2007-2008</i> Director: Biriș Cristina	5.750 / 2007 17.250 / 2008	director	Biriș Cristina
11.	2009	POSDRU/39/3.2/G/22512, AMOSDRU, Bologa Octavian, <i>Perfecționarea personalului cu pregătire superioară și medie din sectorul industriei prelucrătoare în domeniul tehnicilor de proiectare, fabricație și analiză tehnică asistată de calculator și dezvoltarea abilităților manageriale pentru coordonarea echipelor tehnice de lucru . Proiect cofinanțat din Fondul Social European prin Programul Operațional Sectorial pentru Dezvoltarea Resurselor Umane 2007 – 2013, Axa prioritară: 1 Educația și formarea profesională în sprijinul creșterii</i>	1.369.718 / 2009-2011	membru	Bologa Octavian, Turcu Nicolae, Breaz Radu, Racz Gabriel, Oleksik Valentin, Deac Cristian, Gîrjob Claudia, Biriș Cristina, Tera Melania

		economice și dezvoltării societății bazate pe cunoaștere, Domeniul major de intervenție: 1.3 Dezvoltarea resurselor umane din educație și formare, 2009-2011 Director: Bologa Octavian			
12.	2017	Tehnologii de Fabricare Inteligente pentru Productia Avansata a Pieselor din Industriile de Automobile si Aeronautica, Proiecte Complexe realizate in consorții CDI, nr. 82PCCDI/2018 Director : Racz Gabriel	2018-2020	Responsabil partener	Racz Gabriel, Bologa Octavian, Breaz Radu, Racz Gabriel, Oleksik Valentin, Gîrjob Claudia, Biriș Cristina, Tera Melania,
13.	2018	Dynamic – Towards responsive engineering curricula through Europeanisation of dual higher education Universitatea “Lucian Blaga “ din Sibiu, Key Action 2: Knowledge Alliances, 588378-EPP-1-2017-1-DE-EPPKA2-KA	2018-2020	membru	Racz Gabriel, Bologa, Radu Breaz, Oleksik Valentin, Gîrjob Claudia, Biriș Cristina, Tera Melania, Chicea Anca, Claudiu Kifor
14.	2021	Dezvoltarea de tehnologii noi și emergente în contextul stimulării cercetării de excelență în ULBS (TEHNE) Contract nr. 28PFE/30.12.2021	2021-2024	membru	Racz Gabriel, Radu Breaz, Oleksik Valentin, Gîrjob Claudia, Dobrotă Dan, Vișan Maria, Biriș Cristina, Crenganiș Mihai

Brevete

1. Sistem modular flexibil de fixare a semifabricatelor pentru procedeul de deformare incrementală / 2022 /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