

LISTA DE LUCRĂRI

Prof.dr.ing. Catalin Gheorghe Amza

TEZA (E) DE DOCTORAT (T)

T1. INTELLIGENT X-RAY IMAGING INSPECTION SYSTEM FOR THE FOOD INDUSTRY (Sistem inteligent de inspectie cu raze X bazat pe procesare de imagini pentru industria alimentara), De Montfort University, Computer Science and Engineering Faculty, United Kingdom, 2002

I. CĂRȚI PUBLICATE (C)

Ca – Cărți / cursuri (manuale) pentru uzul studenților, publicate în edituri recunoscute.

- Ca1. Radu, C., Amza, C.G., Proiectare 3D, Indrumar de laborator, Editura Printech, 2017. ISBN-978-606-23-0738-7/pag. 158.
- Ca2. Amza, C.G., Petrescu, H., Tasca, G., *Pagini web pentru ingineri*, Editura Printech, Ed. recunoscuta CNCIS cu codul 54, ISBN 978-606-23-0398-3, 321 pagini, 2015
- Ca3. Amza, C.G., Nitoi D.F, Anania, F.,D., *Fabricare asistata de calculator*, Editura Printech, Ed. recunoscuta CNCIS cu codul 54, ISBN 978-606-23-0399-0, 252 pagini, 2015
- Ca4. Amza, C.G., Cicic, D.T., Rontescu C., Tudose, D., *Procesare texte si imagini*, Editura Printech, Ed. recunoscuta CNCIS cu codul 54, ISBN 978-606-23-0242-9, 182 pag, 2014
- Ca5. Amza, C.G., Cicic, D.T., Rontescu C., Vlasceanu, D., *Calculatoare electronice si retele*, Editura Printech, Ed. recunoscuta CNCIS cu codul 54, ISBN 978-606-23-0257-3, 301 pag, 2014
- Ca6. Amza, C.G., Chicioreanu T., Tasca, G., Spanu P., Petrescu H., *Operator introducere, prelucrare si validare date*, Editura Printech, Ed. recunoscuta CNCIS cu codul 54, Bucuresti, ISBN 978-606-23-0288-7, 420 pagini, 2014
- Ca7. Amza, C.G., Baciui, F., Radu C., Tasca, G., *Proiectare asistata de calculator. AutoCAD™ 2012*. Editie revizuita si adaugita, Editura Printech, Bucuresti, 2014, ISBN 978-606-23-0278-8, 389 pagini
- Ca8. Amza, C.G., Balaceanu, M., Tasca, G.D., *Calculatorul pe intelesul tuturor*, Editura Printech 2011, ISBN 978-606-521-755-3, 273 pagini
- Ca9. Amza, C.G., Petriceanu , C., *Programarea calculatoarelor*, Editura Universul (com.2096), Chisinau, Republica Moldova, 2008, ISBN 978-9975-944-99-1
- Ca10. Amza, C.G., Paun, V.I., Petriceanu, C., Radu, C., *Programarea calculatoarelor*, Editura Printech, Ed. recunoscuta CNCIS cu codul 54, Bucuresti, ISBN 978-073-718-669-0, pp.147, 2007
- Ca11. Dumitrache, F., Garleanu, G., Luchian, C., Amza, C.G., Grecu, D.T., Garleanu, D., Dumitrascu, C., *Tehnologii de sudare prin presiune*, volumul II, Editura Bren, Ed. recunoscuta CNCIS cu codul 96, ISBN 973-648-324-X, pp. 372, Bucuresti, 2004

- Ca12. Ca11. Dumitrache, F., Garleanu, G., Luchian, C., Amza, C.G., Dumitrascu, C., Garleanu, D., Grecu, D.T., *Tehnologii de sudare prin presiune*, volumul I, Editura Bren, Ed. recunoscuta CNC SIS cu codul 96, ISBN 973-648-324-X, pp.226, Bucuresti, 2004
- Ca13. Amza, C.G., *Tehnologia Informatiei si Calculatoarele in Afaceri – Curs*, Editura Comunicare.ro, Ed. recunoscuta CNC SIS cu codul 265, Bucuresti, ISBN 973-9376-82-3, pp.80, 2003
- Ca14. Amza, G., Amza, C. G., *Procese de operare*, vol.1, ISBN 973-8141-02-0, Editura Bren, Ed. recunoscuta CNC SIS cu codul 96, 2001

Cb - Cărți de specialitate publicate în edituri recunoscute (autor, coautor, editor).

- Cb1. Chicioreanu, T.D., Popescu D., Amza C.G., *Realitate augmentata si printare 3D*, Editura Printech, Ed. recunoscuta CNC SIS cu codul 54, ISBN 978-606-23-0650-2, Bucuresti, 2016
- Cb2. Chicioreanu, T.D., Popescu D., Amza C.G., *Augmented reality and 3D printing for technical entrepreneurship*, Editura Printech, Ed. recunoscuta CNC SIS cu codul 54, ISBN 978-606-23-0651-9, Bucuresti, 2016, 206 pagini
- Cb3. Amza, C.G., Borg, J., Chicioreanu, T., Danielene, R., Francalanza, E., Muresan M., Negrea P.A. – *Papildytji realybė inovatyviems verslininkams*, 2015, ITI
- Cb4. Amza, C.G., Borg, J., Chicioreanu, T., Danielene, R., Francalanza, E., Muresan M., Negrea P.A. – *Realitate augmentata pentru antreprenori*, Bucuresti, 2015, Ed. Printech Recunoscuta CNC SIS cu codul 54, ISBN 978-606-23-0500-0, 197 pagini
- Cb5. Amza, C.G., Borg, J., Chicioreanu, T., Danielene, R., Francalanza, E., Muresan M., Negrea P.A. – *Augmented reality for technical entrepreneurs*, Bucuresti, 2015, Ed. Printech Recunoscuta CNC SIS cu codul 54, ISBN 978-606-23-0501-7, 191 pagini
- Cb6. Amza, C.G., Cicic, D.T., Anania, F.D., Popescu, D., *Metode de evaluare a calitatii produselor industriale*, Editura Printech, Ed. recunoscuta CNC SIS cod 54, Bucuresti, 2013, 273 pg, ISBN 978-606-521-986-1
- Cb7. Amza, C.G., Balaceanu, M. A., *@Internet*, Editura Printech, Ed. recunoscuta CNC SIS cu codul 54, ISBN 978-606-521-529-0, 273 pagini, 2010
- Cb8. Amza, C.G., Radu, C., Tasca, G., *Proiectare si manufacturare asistata de calculator (CAD-CAM). Aplicatii AutoCAD si SolidWorks*, Editura Printech, Ed. recunoscuta CNC SIS cu codul 54, ISBN 978-606-521-571-9, 504 pagini, 2010
- Cb9. Amza, C.G., Borg, J.C., Dulinskas, D., Radu, C., *Training for ECDL CAD 3D Certification*, Editura Printech, Ed. recunoscuta CNC SIS cu codul 54, ISBN 978-606-521-517-7, 212 pag, 2010
- Cb10. Amza, G., Amza, C.G., *Dezvoltare durabila si protectia mediului*, Editura Printech, Ed. recunoscuta CNC SIS cu codul 54, Bucuresti, 2008, ISBN 978-606-521-030-1
- Cb11. Amza, C.G., Borg, J.C., Lenkevicius, A., *ECDL CAD sertifikavimas, Isleido leidkykla "Technologija"*, Kaunas, Lithuania, ISBN 978-9955-25-250-4, pp.234, 2007
- Cb12. Amza, C.G., Borg, J.C., Lenkevicius, A., *Instruire pentru certificarea ECDL CAD*, Editura Printech, Ed. recunoscuta CNC SIS cu codul 54, Bucuresti, ISBN 978-973-718-668-3, pp.244, 2007
- Cb13. Amza, C.G., Borg, J.C., Lenkevicius, A., *Training for ECDL CAD certification*, Editura Printech, Ed. recunoscuta CNC SIS cu codul 54, Bucuresti, ISBN 978-973-718-668-3, pp.244, 2007
- Cb14. Amza, C.G., Radu, C., *Autocad 2D si 3D*, Editura Bren, Ed. recunoscuta CNC SIS cu codul 96, 2005

Cb15. Cb9 Amza, G, Rindasu, V., Amza, C.G., *Tratat de tehnologia materialelor*, Editura Academiei Romane, Bucuresti 2003, (capitolul 10, CIM/CAD/CAM) ISBN 973-27-0910-3, 900 pag

Cb16. Amza, C.G., Garleanu, D., *Internet. Pagini Web. Multimedia*, Editura Comunicare.ro, Ed. recunoscuta CNC SIS cu codul 265, Bucuresti, pp. 232, ISBN 973-8376-99-8, pp.233, 2003

Cc - Cărți publicate în alte edituri, cu ISBN

III. ALTE MATERIALE PUBLICATE (I,D)

I - Culegeri și Îndrumare publicate (separate în edituri cu ISBN și în tipografiile locale/de instituții sau de uz intern).

Edituri recunoscute cu ISBN

I1. Amza, C.G., Tasca, G.D., Petriceanu C., *Baze de date*, Editura Printech 2011, Ed. recunoscuta CNC SIS cu codul 54, ISBN 978-606-521-757-7, 178 pagini

I2. Amza, C.G., *Tehnologia Informatiei si Calculatoarele in Afaceri* – Caiet de seminar, Editura Comunicare.ro, Ed. recunoscuta CNC SIS cu codul 265, Bucuresti, ISBN 973-8376-83-1, pp.51, 2003

I3. Amza, C.G., Nitoi, D.F., *CIM/CAD/CAM: Aplicatie – Autocad 2002*, Editura Bren, Ed. recunoscuta CNC SIS cu codul 96, ISBN 973-648-195-6, pp. 216, 2003

D - Alte lucrări publicate: capitole publicate în volume colective, capitole teoretice redactate, sisteme de laborator funcționale etc.

D1. Centrul de Testare/Instruire ECDL CAD – CECA (2D si 3D)

D2. Laboratorul de Automatizari Industriale, sala CF008

D3. Amza, C.G., Anania, D., Cicic, D.T., Popescu D., Sistem automat de control nedistructiv bazat pe lichide penetrante si prelucrari de imagini – prototip, 2013 (Fac. IMST, sala CK105, rezultat studii postdoctorale)

IV. ARTICOLE / STUDII IN EXTENSO PUBLICATE (R,V)

Ris - Reviste de specialitate de circulație internațională recunoscute (cotate / indexate ISI Thomson Reuters, sau indexate in alte Baze de Date Internationale - BDI specifice domeniului, care fac un proces de selectie a revistelor pe baza unor criterii de performanta)

Ris1. Popescu, D., Zapciu A., Amza, C.G., Baci, F., Marinescu, R., FDM process parameters influence over the mechanical properties of polymer specimens: A review, *Polymer Testing* 69, pp. 157-166, 2018
<https://doi.org/10.1016/j.polymertesting.2018.05.020>, Revista Q1, factor impact 2018 – 2.943, pe 5 ani 3.07, ISSN: 0142-9418, eISSN: 1873-2348, 2018 (2 domenii ambele Q1 - Materials Science, Characterization & Testing si Polymer Science)

Ris2. Zapciu, A; Amza, CG; Rontescu, C; Tasca, G, 3D-Printed, Non-assembly, Pneumatically Actuated Mechanisms from Thermoplastic Materials, *MATERIALE PLASTICE*, Volume: 55, Issue: 4, Pages: 517-520, Published: DEC 2018 , FI: 1.393 pe 2018, ISSN: 0025-5289 , WOS:000454987400012

Ris3. Spanu, P; Amza, CG; Abaza, BF, Study Regarding the Compressive Properties of Glass Fiber Reinforced Composites, *MATERIALE PLASTICE* , Volume: 55 , Issue: 4 , Pages: 580-583 , Published: DEC 2018 , FI 1.393, ISSN: 0025-5289 , WOS:000454987400025

- Ris4. Moga, M; Semenescu, A ; Chivu, RD ; Costoiu, MC; Mates, IM ; Calin, CI ; Amza, CG ; Pogarasteanu, ME ; Oproiu, AM; Radu, FI, An Alternative Femoral Stem-bone Implantation Technique Using an Innovative Short Femoral Stem Endoprosthesis, REVISTA DE CHIMIE, Volume: 69 , Issue: 11 , Pages: 4199-4203 , Published: NOV 2018 , FI 1.605, WOS: 000451931500074
- Ris5. Cicic, DT ; Rontescu, C ; Bogatu, AM ; Amza, CG ; Chivu, OR , The Influence of the Deposit Parameters on the Medium Chemical Composition of the Welded Joint, REVISTA DE CHIMIE, FI 1,412 pe 2017, Volume: 68, Issue: 10, Pages: 2261-2264, Published: OCT 2017, WOS:000416750000012
- Ris6. Apostolescu, Z ; Chivu, OR ; Semenescu, A ; Basis, C ; Amza, C G ; Iacobescu, G ; Gligor, MA ; Nitoi, D ; Adir, GM , The Impacts of Industrial Processing of Oil on Soil Quality, REVISTA DE CHIMIE, Volume: 68, Issue: 1, Pages: 111-115, Published: JAN 2017, FI 1,412 pe 2017, WOS:000395499200024
- Ris7. Rontescu, C ; Cicic, DT ; Amza, CG ; Chivu, OR ; Iacobescu, G , Comparative Analysis of the Components Obtained by Additive Manufacturing Used for Prosthetics and Medical Instruments, REVISTA DE CHIMIE, Volume: 68, Issue: 9, Pages: 2114-2116, Published: SEP 2017, FI 1,412 pe 2017, WOS:000416748800036
- Ris8. Spanu, P ; Amza, CG ; Dinu, G, Statistical Analysis of Some Mechanical Characteristics of Glass Fiber Reinforced Composites, MATERIALE PLASTICE, Volume: 54, Issue: 4, Pages: 601-605, Published: DEC 2017, ISSN: 0025-5289 , factor impact 2017 : 1,248 , WOS:000426412500001
- Ris9. Rontescu, C ; Cicic, DT; Bogatu, AM; Amza, CG; Chivu, OR, Research Regarding the Analysis of the Samples Used for Prosthetics and Medical Instruments Obtained by Sintering, REVISTA DE CHIMIE, Volume: 68, Issue: 8, Pages: 1854-1857, Published: AUG 2017, FI 1,412 pe 2017, WOS:000410388000037
- Ris10. Amza, CG, Zapciu A, Popescu, D., Paste Extruder—Hardware Add-On for Desktop 3D Printers, Technologies 2017, 5(3), 50; doi:10.3390/technologies5030050, 2017 <http://www.mdpi.com/2227-7080/5/3/50/htm> WOS:000410651800014
- Ris11. Semenescu, A, Chivu, OR, Babis, C , Apostolescu, Z, Amza, CG, Petrescu, V, Iacobescu, G, The Impact of Industrial Oil Processing Activity on the Air Quality, REVISTA DE CHIMIE, Volume: 67, Issue: 10, Pages: 2018-2021, Published: OCT 2016, ISSN: 0034-7752, FI 1,232 pe 2016, WOS:000388359900027
- Ris12. Cicic, DT; Rontescu, C; Amza, CG; Chivu, OR, Iacobescu, G., Qualitative and Quantitative Comparisons Concerning the Influence of Jointing Parameters on the Quality of the PPR Without Insertion Components Assembly, MATERIALE PLASTICE Volume: 53 Issue: 1 Pages: 38-41 Published: MAR 2016 , ISSN: 0025-5289, FI 0,778 pe 2016, WOS:000373966500009
- Ris13. Cicic D.T., Rontescu , C., Amza, C.G., Chivu, O.R., The Combined Effect of Chemical Elements on the Properties of a Layer Deposited by Welding, Revista de Chimie, vol. 66, issue 9, pp 1299-1301, ISSN: 0034-7752, WOS: 000363359700009, FI 0,956 pe 2015, 2015
- Ris14. Doicin, B., Patrascioiu, C., Amza, C.G., Onutu, I., Mathematical Model for Studying the Variation of Gasoline-Bioethanol Blend Properties, REV. CHIM. (Bucharest), vol. 66, No. 4, 2015, pp. 523-528, ISSN 0034-7752, FI 0.956 pe 2015, WOS:000354914500019
- Ris15. Rontescu, C., Cicic, D.T., Amza, C.G., Chivu, O., Dobrota, D., Choosing the optimum material for making a bicycle frame, Jurnal Metalurgija, Hrvatsko Metalursko Društvo (HMD), vol. 54, nr.4, pp. 679-682, Impact Factor : 0.959, ISSN 0543-5846, 2015 WOS: 000356463800020, zona galbena Q2 (1 singur domeniu Metallurgy&Metallurgical Engineering)
- Ris16. Amza, C.G., Automatic inspection of epoxy die-attach process of a semiconductor chip, Rev. MPLAAP 51 (4), ISSN 0025-5289, 2014, FI 2014: 0.824, WOS: 000345883300024
- Ris17. Popescu, D.; Anania, F. D.; Cotet, C. E. & Amza, C. G., FULLY-AUTOMATED LIQUID PENETRANT INSPECTION LINE SIMULATION MODEL FOR INCREASING PRODUCTIVITY, Int j simul model 12 (2013) 2, 82-93, ISSN 1726-4529, factor de impact 2,125 pe 2013 WOS:000320830500002
- Ris18. Cicic, D.T., Rontescu, C., Amza, C.G., Popescu, D., *Thermal field modeling for welding without filler material*, U.P.B. Sci. Bull. Series D, Vol.75, No.2/ 2013, ISSN 1454 – 2358, Cotare CNCSIS tip B+, cod 102, pag. 97...106; indexat SCOPUS: 2-s2.0-84878385734

- Ris19. Popescu, D., Amza C.G., Laptoiu D., Amza G., *Competitive Hopfield Neural Network Model for Evaluating Pedicle Screw Placement Accuracy*, *Strojniški vestnik - Journal of Mechanical Engineering*, 58(2012)9, pp509-516, factor impact 0.883, 2012, ISSN 0039-2480 WOS:000308787400002, zona galbena Q2 (locul 55 din 125)
- Ris20. Petriceanu C., Amza, G., Amza C.G., *Optimization Of Monitoring Methods With Lamb Waves Of The Composite Materials Using Piezoceramics Patches*, *U.P.B. Sci. Bull., Series D*, Vol. 74, Iss. 3, 2012, ISSN 1454-235; indexat SCOPUS: 2-s2.0-84865092796
- Ris21. Popescu, D., Anania, D., Amza, C.G., Amza, G., Cicic, D.T. - *Manufacturing complex anatomical models in an integrated approach ct/cad/cam from rigid polyurethane foam. A case study*, *U.P.B. Sci. Bull. Series D*, Vol.73, No.4/ 2011, ISSN 1454 – 2358 indexat SCOPUS: 2-s2.0-83455262068
- Ris22. Amza, C.G., *Intelligent x-ray imaging inspection system for composite materials with polymeric matrix*, *Revista de materiale plastice, MPLAAM* nr.4, vol. 44(4), pag. 326-331, ISSN 0025/5289, revista cotata ISI Web of Science, factor de impact 0.319, 2007
- Ris23. Amza, G., Pausan, D.V., Amza, C.G., *Theoretical and experimental contributions regarding the influence of technological and mechanical parameters over the quality of ultrasonic welds of various material combinations*, *Revista Materiale Plastice, MPLAAM* 45(3)(295-300) ISSN 0025/5289, nr. 3, pag. 295-300, revista cotata ISI Web of Science, factor de impact 0.319, 2008
- Ris24. Amza, G., Marinescu, M., Moraru, A., Amza, C.G., *Monitoring the processing temperature of the polymeric matrix composite materials*, *Revista de materiale plastice, MPLAAM* nr.1, vol. 45(1), pag. 61-66, ISSN 0025/5289, revista cotata ISI Web of Science, factor de impact 0.319, 2008
- Ris25. Amza, G., Moraru, A., marinescu, M., Amza, C.G., Melnic, L.V., *Damage detections of composite materials with LAMB wave method*, *Revista Materiale Plastice, MPLAAM* 45(2)(203-207) ISSN 0025/5289, nr. 2, pag. 203-207, revista cotata ISI Web of Science, factor de impact 0.319, 2008
- Ris26. G. Amza, A. Hadăr, Z. Apostolescu, C.G. Amza, L.E. Anton – *Determinarea prin calcul numeric a parametrilor funcionali ai sistemelor ultraacustice folosite la sudarea cu ultrasunete a materialelor compozite inteligente*, *Revista Materiale Plastice, MPLAAM* 44(2)(97-174) ISSN 0025/5289, nr. 2, pag. 121-128, revista cotata ISI Web of Science, factor de impact 0.319, 2007
- Ris27. Amza, G., Nitoi, D., Amza, C.G., *Ultrasonic rotary motor: design and experiments*, *Scientific Bulletin Series D: Mechanical Engineering*, v 66, n2-4, indexat SCOPUS 2-s2.0-29244450848, articol indexat in baza de date INSPEC, pag. 21-30, 2004
- Ris28. Amza, C., G., *Bones detection from chicken breast meat using a competitive Hopfield neural network and fuzzy reasoning*, *U.P.B. Scientific Bulletin, Series C – Electrical Engineering*, vol. 63, no.3, pp. 53-64, UPB, Bucharest, Romania, ISSN 1454-234X, 2001, cod CNCSIS 101 (revista categoria B+) (articol indexat INSPEC)
- Ris29. Amza, C., G., *Intelligent Classifier of bones within chicken breast meat X-ray images*, *Scientific Bulletin, Series A – Applied Mathematics and Physics*, vol. 62, no.2, pp. 83-97, UPB, Bucharest, Romania, ISSN 1223-7027, 2000, cod CNCSIS 50 (Revista categoria A) (articol indexat COMPENDEX)
- Ris30. Amza, G., Nitoi, D., Amza, C., G., Ignat, M., *Intelligent composite materials, curing simulation and experiments*, *UPB Scientific Bulletin, Series D: Mechanical Engineering*, vol.63, no. 3-4, pp. 251-266, 1999 (articol indexat INSPEC)

Rio – Alte reviste de specialitate de circulație internațională.

Rio1. Amza, C.G., Amza, G., Nitoi, D.F., *An automated inspection system based on X-ray imaging*, *Machine Building* No. 2003 (55) – No. 11-12, pag. 177- 180, ISSN 0573-7419, 2003

Rio2. Amza, G., Nitoi , D.F., Amza, C.G., *Modern Machining on Mazak Turning Center*, *Machine Building* No. 2003 (55) – No. 11-12, pag. 48- 51, ISSN 0573-7419, 2003

Rns - Reviste de specialitate de circulație națională recunoscute de CNCIS. Se mentioneaza Categoria CNCIS.

Rns1. Amza, G., Nitoi, D.F., Amza, C.G., *Modern composite material machining on Mazak Machining Center*, Revista Nonconventional Technologies Review nr.3/2005, pp.31-34, 2005, ISSN 1454-3087, 2005 (cod CNCIS in 2004 – 93)

Rns2. C.G., Amza, Amza, G., Nitoi, D.F., Luchian, C., *Fuzzy logic for non-destructive testing for various composite materials*, Revista Nonconventional Technologies Review nr.2/2005, pp.47-54, 2005, ISSN 1454-3087, 2005 (cod CNCIS in 2004 – 93)

Rns3. Amza, G., Nitoi, D.F., Amza, C.G., *Research and contributions regarding one degree of freedom ultrasonic rotary motors*, Revista Nonconventional Technologies Review nr.1/2005, pp.33-36, 2005, ISSN 1454-3087, 2005 (cod CNCIS in 2004 – 93)

Rns4. Amza, C.G., Amza, G., Nitoi, D.F., *Automated Inspection System for Weldings Based on Artificial Intelligence*, Revista de Tehnologii Neconventionale, Nr.1/2003, pag. 69-74, ISSN 1454-3087, 2003 (cod CNCIS in 2004 – 93)

Rns5. Amza, G., Nitoi, D.F., Amza, C.G., *Studies and research regarding one degree of freedom linear ultrasonic motor design and manufacturing*, Revista de Tehnologii Neconventionale, Nr.1/2003, pag. 4-7, ISSN 1454-3087, 2003 (cod CNCIS in 2004 – 93)

Rno - Alte reviste de specialitate de circulație națională.

Vis- Volumele unor manifestări științifice internaționale recunoscute, organizate în țară și străinătate, indexate ISI Thomson Reuters sau indexate în alte Baze de Date Internaționale - BDI specifice domeniului, care fac un proces de selecție a publicațiilor pe baza unor criterii de performanță

Vis1. Tebeanu, AV ; Chicioreanu, TD; Amza, CG; Macarie, GF, A MULTICENTER STUDY ON AUGMENTED REALITY IN TECHNICAL EDUCATION: KNOWLEDGE AND INTEREST, INTED2017: 11TH INTERNATIONAL TECHNOLOGY, EDUCATION AND DEVELOPMENT CONFERENCE, Book Series: INTED Proceedings, Pages: 7638-7642, Published: 2017, Document Type:Proceedings Paper, Location: Valencia, SPAIN, Date: MAR 06-08, 2017, WOS:000427401302096, ISBN:978-84-617-8491-2, ISSN: 2340-1079

Vis2. A Zapciu. Tasca, G., Amza C.G., Considerations on 3D printing joints parts, Book Series: IOP Conference Series-Materials Science and Engineering , Volume: 400 , Article Number: 022061 , DOI: 10.1088/1757-899X/400/2/022061, Published: 2018 , Document Type:Proceedings Paper WOS:000461147400061 , ISSN: 1757-8981

Vis3. Amza, CG; Zapciu, A ; Teodorescu, O , Augmented Reality Application for Industrial Non-Destructive Inspection Training, 7TH INTERNATIONAL CONFERENCE ON STRUCTURAL ANALYSIS OF ADVANCED MATERIALS (ICSAAM 2017), Book Series: AIP Conference Proceedings, Volume: 1932, Article Number: UNSP 030002, DOI: 10.1063/1.5024152, Published:2018, Accession Number: WOS:000442818000008, ISBN:978-0-7354-1624-6, ISSN: 0094-243X

Vis4. Amza, CG; Nitoi, DF , Considerations on Thermic and Mechanic Processes that Appear when 3D Printing using ABS Fused Deposition Modelling Technology, 7TH INTERNATIONAL CONFERENCE ON STRUCTURAL ANALYSIS OF ADVANCED MATERIALS (ICSAAM 2017), Book Series: AIP Conference Proceedings, Volume: 1932, Article Number: UNSP 030001, DOI: 10.1063/1.5024151, Published:2018, Accession Number: WOS: 000442818000007, ISBN:978-0-7354-1624-6, ISSN: 0094-243X

Vis5. Chicioreanu, TD ; Amza, CG , Adapting Your Teaching to Accommodate the Net Generation /Z-Generation of Learners, PROCEEDINGS OF THE 14TH INTERNATIONAL SCIENTIFIC CONFERENCE ELEARNING AND SOFTWARE FOR EDUCATION: ELEARNING CHALLENGES AND NEW HORIZONS, VOL 3 Edited by:Roceanu, I; Beligan, D; Chicioreanu, T; Blaga, M; Stanescu, M; Corciova, C, Book Series: eLearning and Software for Education, Pages: 13-20, DOI: 10.12753/2066-026X-18-143, Published: 2018 Document Type:Proceedings Paper, WOS:000467471000001, ISSN: 2066-026X, 2018

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- Vi23. Amza C., G., Innocent, P., *Bones detection from chicken breast meat using a Competitive Hopfield Neural Network and fuzzy filtering*, in Proc. of EUSFLAT 2001, pp. 210-213, 5-7 September, Leicester, UK, 2001
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Vn - Volumele unor manifestări științifice naționale.

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- Vn2. Amza, G., Nitoi, D.F., Amza, C.G., *Theoretical and experimental research regarding computation, design and manufacturing of ultrasonic systems used for finishing and superfinishing of injection moulds*, in Proc. 10th edition of

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- Vn7. Amza, C.G., Amza, G., Nitoi, D.F., Radu, C., Luchian, C., - *Segmentation of X-ray images*, Proceedings – Constantin Brancusi University of Targu Jiu 9th edition Scientific Conference with International Participation, November 5-6, Targu Jiu, ISBN 973-8436-99-0, 2004
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- Vn11. Amza, C.G., Amza, G., Nitoi, D., Radu, C., Apostolescu, Z., *Automated non-destructive testing system based on neural networks and fuzzy logic*, Anals of the University of Oradea, Fascicle of Management and technological engineering, Vol. III (XIII), ISSN 1583-0691, 2004
- Vn12. Amza, G., Nitoi, D., Amza, C.G., *Cercetări Teoretice si Experimentale Privind Realizarea Unor Materiale Compozite Inteligente*, Anals of the University of Oradea, Fascicle of Management and technological engineering, Vol. III (XIII), ISSN 1583-0691, 2004
- Vn13. Amza, G., Nitoi, D., Amza, C.G., *Ultrasonic rotary motor. Design and experimentals*, Annals of the University of Oradea, Fascicle of Management and technological engineering, Vol. III (XIII), ISSN 1583-0691, 2004

V. BREVETE DE INVENȚIE / INOVAȚII (B,A)

B - Brevete de invenție.

B1. *Instalatie de evaluare a calitatii produselor industriale*, RO00128159, Amza, C.G., Cicic, D.T., Popescu D., Amza, G., Semenescu A.

B2. *Metoda si sistem de instruire pentru pozitionarea suruburilor pediculare in vertebrele coloanei umane*, Popescu, D., Amza, C.G., Laptoiu, D.C., Amza, G., Semenescu A., Antoniac, V.I., Cicic, D.T., RO00128174

B3. *Surub auto-tarodant canulat bioresorbabil pentru fixare ligamentara*, RO00128477, Antoniac, V.I., Laptoiu D.C., Popescu D., Semenescu A., Amza C.G.

B4. *Metodă și dispozitiv pentru evaluarea etanșeității produselor de tip casete luminoase realizate din plexiglas*, RO00128428, Amza C.G., Cicic D.T., Popescu D.

B5. *Short Femoral Stem Cervical Endoprosthesis (Endoproteză Scurtă Cervicală Femurală)*, Moga, M., Semenescu, A., Costoiu, M., Mateș, I.M., Călin, C.I., Amza, C.G., A 2015 00551, 130730 A0, nr brevet 00130731/2017

B6. *Semiconstrained Total Elbow Prosthesis Made of Shape-Memory Alloys, with Coupling System Based on Shape-Memory Effect*, Batalu, N.D, Semenescu A, Costoiu MC, Antoniac VI, Doicin CV, Amza C.G., Mateș, I.M., Chivu, O.R., Codorean, IB, Barbu CA, Bădică P, Negoită OD, A 2016 00383 din 27/06/2016

B8. *Metodă Și Dispozitiv Modular Mobil De Recondiționare Prin Sudare A Arborilor Cotiți Din Industria Auto*, Rontescu, C. Dumitru, TC, Oana, O.R., Amza, C.G., 2016

B9. *Dispozitiv de extrudare a materialelor maleabile pentru imprimarea 3D*, Amza C.G., Zapciu A., Popescu D., A/00489 19.07.2017

A - Inovații și alte creații.

VI. CONTRACTE ȘI RAPOARTE ȘTIINȚIFICE (P,F)

P – Proiecte de cercetare-dezvoltare – inovare obținute prin competiție, pe bază de contract/grant, în țară/străinătate (**Pn** – naționale, **Pi** - internaționale).

- Pi 1. 598236-EPP-1-2018-1-LT-EPPKA2-CBHE-SP (dComFra), *Digital competence framework for Ukrainian teachers and other citizens (dComFra)*, E+ Capacity Building, 2019-2021, responsabil proiect
- Pi 2. 2018-1-TR01-KA203-059739 *Curriculum Development for Rapid Prototyping in Engineering Education (CDRP)*, 2019-2021, responsabil proiect
- Pi 3. 2018-1-DE02-KA202-005228 “*INDEX - Industrial Expert*”, 2018-2021, INTAMT GMBH, Germania
- Pi 4. 2018-1-EL01-KA204-047819 *An Adult Digital Education Skills Kit to Foster Employability (DESK)*, 2018-2021, responsabil proiect
- Pi 5. *Global Digital Manufacturing – Industry 4.0 Joint Curriculum and Research*, EEA GRANTS 2014-2021, Cooperation projects in higher education area, Strategic Partnerships, EY-COP-0001, director proiect, buget: 144032 Euro, 2018-2020
- Pi 6. *Digital Training Toolbox for Entrepreneurial Training in Augmented Reality (AROMA)* 2017-1-CZ01-KA202-035560, Erasmus+ KA2 Strategic partnership, 2017-2020, Responsabil proiect
- Pi 7. *Drone technology training to boost EU entrepreneurship and Industry 4.0*, 2017-1-RO01-KA202-037083, Erasmus+ KA2 Strategic partnership, 2017-2019, Director executiv
- Pi 8. *Fostering use of technical spaces in higher education – HEI-MAKERS* 2017-1-LT01-KA203-035231, Erasmus+ KA2 Strategic partnership, 2017-2020, Responsabil proiect
- Pi 9. *Upskilled Engineering Profiles For The Automotive Sector And Uptake Of Dual Alternate Scheme In Europe’S Higher Education*, 2017-1-ES01-KA203-038588, Erasmus+ KA2 Strategic partnership, 2017-2020, Responsabil proiect
- Pi 10. *Virtual & Augmented Reality Trainers Toolbox to Enable Adults Catch Up With Life Skills (VITA)* 2017-1-MT01-KA204-026949, Erasmus+ KA2 Strategic partnership, 2017-2019, Responsabil proiect
- Pi 11. *National Coordinators for the implementation of the European Agenda for Adult Learning*, 2015-2770/001-001, 567464-EPP-1-2015-1-RO-EPKA3-AL-AGENDA, coordinator ANC, cofinanțat de EACEA, KA3, 2016-2017, membru echipa

- Pi 12. „*Augmented Reality and 3D Printing for technical entrepreneurs*” (ARTE-3DP), Finantat prin Mecanismul Financiar SEE 2009-2014, 16-SEE-PCB-RO BUCURES11/01, Proiecte de Cooperare Inter-Institutionala, Programul SEE RO15, buget total: 49845 Euro, 2016, director de proiect, grant obtinut prin competitie
- Pi 13. 2016-1-RO01-KA202-024578 *3DP Training in 3D Printing To Foster EU Innovation & Creativity*, finantat prin programul Erasmus+, responsabil proiect, grant obtinut prin competitie, 2016-2018
- Pi 14. 2016-1-RO01-KA202-024493 *Circular Economy Digital Training Toolbox to foster Innovative Green Entrepreneurs - Eng@ge*, finantat prin programul Erasmus+, responsabil proiect, grant obtinut prin competitie, 2016-2018
- Pi 15. 2016-1-RO01-KA202-024508 *EU-WELD - A Digital Training Toolbox for Fostering European Experts in Welding Technologies*, finantat prin programul Erasmus+, director executiv, grant obtinut prin competitie, 2016-2018
- Pi 16. „*Augmented Reality for Technical Entrepreneurs*” (ARTE), Finantat prin Mecanismul Financiar SEE 2009-2014, Proiecte de Cooperare Inter-Institutionala, Programul „Fondul de burse” – RO15, , 14-SEE-PC-RO BUCURES11, buget total: 110920 Euro, buget UPB: 29385 , 01.06.2014-31.05.2016, director de proiect, grant obtinut prin competitie
- Pi 17. „*EXEM ECVET Profile for the European Expert in Energy Management*”, finantat de EU-EACEA prin Longlife Learning Programme, Leonardo da Vinci Development of Innovation project, 539327-LLP-1-2013-1-IT-LEONARDO-LMP, responsabil proiect, grant obtinut prin competitie internationala, 2013-2016, 41440 Euro pentru UPB
- Pi 18. *ENEX - Expert in Nanotechnology Exploitation*, Erasmus+, KA2 – Cooperation for Innovation and the exchange of good practices, Strategic partnerships, 2014-2016, director administrativ
- Pi 19. „*Transfer Of Best-Practice & Innovation in CAD for Logistics Stakeholders*”, LOGICAD nr. 2012-1-ES1-LEO05-48228, finantat de EU prin Longlife Learning Programme, Leonardo da Vinci Programme, Transfer of innovation (TOI), responsabil proiect, grant obtinut prin competitie internationala, 2012-2014, 38271 Euro pentru UPB
- Pi 20. *Exploiting Multi-Material Micro Injection Moulding for Enhancing Manufacturing Competitiveness (EX-MMIM)*, prof ref R&I-2012-002, financed by the Malta Council for Science and Technology, national Research & Innovation Programme, 2012, Scientific Advisor, membru in echipa de proiect, 2013-2015
- Pi 21. „*Joyful adult training using augmented reality*”, JOYAR nr. GRU-12-P-LP-74-B-CZ finantat de EU prin Longlife Learning Programme, Grundtvig Partnerships, director proiect, 2012-2014
- Pi 22. „*Drivers & Active NeTwork for European Citizenship in Vocational Education and Training*”, DANTE, finantat de EU prin Longlife Learning Programme, Leonardo Partnerships, LLP-LdV/PAR/2013/RO/076, director de proiect, 2013-2015
- Pi 23. *European SMEs in Computer Aided Industrial Design(euCAD)*, Project no. 142514-LLP-1-2008-1-RO-LEONARDO-LMP finantat de Longlife Learning Programme - Leonardo da Vinci Multilateral Project - Development of Innovation, director de proiect, grant obtinut prin competitie internationala de 277534 Euro, 2008-2010
- Pi 24. *Implementation of an innovative model and self-sustainable system of ECDL CAD training/testing center*, Proiect Leonardo da Vinci no Ro/05/B/F/PP175005, director de proiect, grant de 134756 Euro
- Pi 25. *euSDET - Enlarged EUropean Sustainable DEvelopment Training Course*, Program Socrates/Grundtvig 1, 2005-2007, partener extern, responsabil proiect, Project No. 224953-CP-1-2005-1-NL-GRUNDTVIG-G11
- Pi 26. *Transfer de techniques modernes concernant l'utilisation des robots pour l'assemblage*, Leonardo da Vinci RO/2003/PL91116EX, director de proiect, grant de 19000 Euro

- Pn 1. *Cercetari stiintifice pentru asigurarea contramasurilor medicale de protectie CBRN prin proiectarea si dezvoltarea prototipului de seringă autoinjectoare*, contract Ministerul Apararii Nationale, nr 596 din 20.07.2017, 2017, 6250 lei, director proiect
- Pn 2. *Sistem integrat de printare 3D a unor piese interconectate*, UPB-GEX nr IM 21-17-05, 2017, membru echipa proiect
- Pn 3. PN-III-P2-2.1-CI-2018-0987 166CI din 04/07/2018 *Printare 3D pentru industria de tehnica de calcul – P3DIT* finantat prin programul PNIII, P2, Cecuri de Inovare, director de proiect, 49700 lei, iulie –dec 2018
- Pn 4. *Optimizarea prototipului seringii autoinjectoare prin proiectarea unor elemente inovative și Servicii pentru teste și măsurători de rezistență a seringii autoinjectoare în condiții extreme*, contract 115/21.05.2018, MAPN prin Centrul de Cercetari Stiintifice Medico Militare, iunie 2018-noiembrie 2018, 6033 lei, director proiect
- Pn 5. *FabLab 3D pentru industria de incaltaminte – 3DFI* Fonduri PNIII, PN-III-P2-2.1-CI-2017-0490 27CI/2017, 2017, Director proiect
- Pn 6. *Instalație de preparare a aerului folosind sisteme de filtrare cu ultrasunete* PN-III-P2-2.1-BG-2016-0062, membru echipa cercetare
- Pn 7. PN-III-P2-2.1-CI-2018-1413, *Welding reconditioning applied in the medical industry (SUDMED)*, 2018, membru echipa cercetare
- Pn 8. 189CI/ PN-III-P2-2.1-CI-2018-1110 - *Sistem avansat de filtrare cu ultrasunete a aerului industrial, bazat pe fenomenul de cavitație ultrasonică (SFACU)*, Universal Service SRL - RO, 2018, membru echipa cercetare
- Pn 9. Contract nr. 32/26.09.2016 - *Dezvoltarea de soluții alternative pentru repararea prin sudare a produselor de tip "recipient" utilizate în industria energetică și chimică, fără tratamente termice post reparație*, UPB-GEX, http://www.imst.pub.ro/Upload/Cercetare/IMST_Rezultate_finale_granturi.pdf UPB, Granturi de Excelenta, 22000 lei
- Pn 10. Contract nr. 309/28.03.2016 - *Imperfecțiuni geometrice întâlnite la sudarea prin topire și metode de depistare a acestora – SC METINOX SRL*, Membru echipa cercetare: Prof.univ.dr.ing. Catalin Gheorghe AMZA Contract cu terti 3000 lei
- Pn 11. *Recondiționarea protezelor și a instrumentelor medicale realizate din titan sau aliaje de titan*, UPB-GEX, Membru echipa cercetare: Prof.univ.dr.ing. Catalin Gheorghe AMZA UPB, Granturi de Excelenta 22000 lei
- Pn 12. *“FabLab cu tehnologie integrată de fabricație folosind realitate augmentată și printare 3D pentru echipamente de inspecție nedistructivă cu ultrasunete”* - RA3DCND, PN-III-P2-2.1-BG-2016-0036, Contract 35BG/2016, 2016-2018, director de proiect
- Pn 13. *„Sistem și metoda de printare 3D folosind materiale maleabile (P3DM)”*, Grant intern Universitatea Politehnica din București, ID 263, 2016-2017, director de proiect
- Pn 14. *Metoda de inspecție a lipiturilor de plexiglass*, Contract „Cecuri de inovare” nr. 30CI/11.06.2012, director de proiect, 2012 – 6 luni – 9000 Euro
- Pn 15. *Platforma Online Inteligentă Colaborativă Pentru Proiectarea Si Fabricarea Ghidajelor Personalizate In Chirurgia Ortopedica*, PN-II-PT-PCCA-2013-4-0251, membru echipa proiect, 2014-2016
- Pn 16. *„ACTIV pe Piața Muncii: Abilități și Competențe Tehnice pentru Integrare și Valorificare pe Piața Muncii”*, Cod Contract: POSDRU/125/5.1/S/125723– Responsabil formare proiect, expert pe termen lung, 2014-2015
- Pn 17. POSDRU ID 150650 ANTREPRENOR- *Idei de afaceri de succes și dezvoltarea antreprenoriatului în regiunile București-Ilfov și Sud-Vest Oltenia*, 2015 – Coordonator formare proiect, expert pe termen lung
- Pn 18. *Educație și formare profesională în sprijinul creșterii calității învățământului prin inițierea unor noi programe de licență și masterat în domeniul sănătate și securitate în muncă*, Codul Proiectului: POSDRU/86/1.2/S/61690, IT Expert (echipa de management), expert pe termen lung A, 2010-2013

- Pn 19. „*Practica studenților - Cheia către job-ul dorit!*”, Cod proiect: POSDRU /109/2.1/G/81655, asistent coordonare și implementare (echipa de management), expert pe termen lung A, 2011-2013
- Pn 20. “Formarea personalului didactic din învățământul secundar (ISCED 2-3) în vederea utilizării tehnologiei informației și a instrumentelor e-learning în activitatea didactică”, Cod proiect POSDRU/87/1.3/S/64227, designer de instrucție, expert pe termen lung A, 2010-2013
- Pn 21. “*Să ne pregătim pentru BAC! Program inovator de formare a competențelor cheie pentru promovarea examenului de bacalaureat*”, contract nr: POSDRU/153/1.1/S/138618, aprilie 2014-septembrie 2015, expert curricula, expert pe termen scurt
- Pn 22. *Dezvoltarea de competente cheie pentru evaluări naționale de succes!*”, Cod Contract: POSDRU/153/1.1/S/138267, aprilie 2014-septembrie 2015, coordonator de monitorizare și implementare proiect, expert pe termen lung
- Pn 23. *Platforma de formare și cercetare interdisciplinară pentru evaluarea calității materialelor și produselor Q-EVMAT*, contract nr. 24/25.09.2006, cod CNC SIS nr. 71, 2006, colaborator
- Pn 24. *Noi competente în implementarea sistemelor de management integrat calitate-mediu*, proiect Leonardo da Vinci no. RO/2004/PL93070/TD, 2004, colaborator

F – Alte lucrări de cercetare – dezvoltare

VII. COMUNICĂRI ȘTIINȚIFICE NEPUBLICATE (E)

E – Lucrări prezentate la diferite seminarii/expoziții, conferințe, etc.

E1. Amza, C.G., *Sistem inteligent de inspecție bazat pe imagistica radiografică*, Conferința Națională în Controlul nedistructiv și creșterea calității produselor, Targul Tehnic Internațional București TIB2003, Octombrie 2003