

PERSONAL INFORMATION

Catalin Gheorghe AMZA



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JOB APPLIED FOR
 POSITION
 PREFERRED JOB
 STUDIES APPLIED FOR

Scientific Research Evaluator

WORK EXPERIENCE

- 2020 - present **Member of National Council of Qualifications and Examinations Regulation - Consiliul Național de Atestare a Titlurilor, Diplomelor și Certificatelor Universitare (CNATDCU), Comisia de Ingineria și Managementul Producției (C16)**
- Ministry of Education, str. General Berthelot, nr. 28-30, Sector 1, Bucharest
- Business or sector** Higher Education/research
- 2015 - present **Professor**
- Universitatea Nationala de Stiinta si Tehnologie POLITEHNICA Bucuresti , Facultatea Ingineria Industriala si Robotica, Ingineria Calitatii si Tehnologii Industriale, Splaiul Independentei 313, sector 6, Bucuresti, 060042, Romania, www.upb.ro
- Engineering degree program coordinator – Quality Engineering and management (IMC) (2020-present)
 - Master degree program coordinator – Quality Engineering (IC) (2016-2020)
 - Member in Faculty Council (2020-present)
 - Member in Department Council (2013-present)
 - Laboratory coordinator – Additive Manufacturing (2017-present)
 - Laboratory coordinator – Information technology in Engineering (2015-2020)
- Business or sector** Higher Education/research
- 2018 - present **Member of the Senate of the university**
- Universitatea Nationala de Stiinta si Tehnologie POLITEHNICA Bucuresti, Facultatea Ingineria Industriala si Robotica, Ingineria Calitatii si Tehnologii Industriale, Splaiul Independentei 313, sector 6, Bucuresti, 060042, Romania, www.camis.pub.ro
- Business or sector** Higher Education/research
- 2013 - present **Director of UPB-CAMIS Research and Development Center**
- Universitatea Nationala de Stiinta si Tehnologie POLITEHNICA Bucuresti, Facultatea Ingineria Industriala si Robotica, Ingineria Calitatii si Tehnologii Industriale, Splaiul Independentei 313, sector 6, Bucuresti, 060042, Romania, www.camis.pub.ro

Business or sector Higher Education/research

2009 - 2015 Associate professor

Universitatea Politehnica Bucuresti, Facultatea Ingineria si Managementul Sistemelor Tehnologice, Tehnologia Materialelor si Sudare, Splaiul Independentei 313, sector 6, Bucuresti, 060042, Romania, www.upb.ro

Business or sector Higher Education/research

2004 - 2009 Lecturer

Universitatea Politehnica Bucuresti, Facultatea Ingineria si Managementul Sistemelor Tehnologice, Tehnologia Materialelor si Sudare, Splaiul Independentei 313, sector 6, Bucuresti, 060042, Romania, www.upb.ro

Business or sector Higher Education/research

2001 - 2004 Asistent Teaching assistant

Universitatea Politehnica Bucuresti, Facultatea Ingineria si Managementul Sistemelor Tehnologice, Tehnologia Materialelor si Sudare, Splaiul Independentei 313, sector 6, Bucuresti, 060042, Romania, www.upb.ro

Business or sector Higher Education/research

2001 - 2002 Teaching asistant (asistent)

De Montfort University, Leicester, United Kingdom, The Gateway, LE1 9BH, www.dmu.ac.uk

Business or sector Higher Education/research

1998 - 2001 Teaching assistant

Universitatea Politehnica Bucuresti, Splaiul Independentei 313, sector 6, Bucuresti, 060042, Romania, www.upb.ro

- Calculatoare si programe utilitare, anul III, laborator
- Tehnologia Informatiei si Sisteme Interactive, anul III, laborator

Business or sector Higher Education/research

1994 - 1998 Computer operator

AMG INTERCOM SRL, Bucuresti, Romania

- Design si grafica, desktop publishing

Business or sector SME/Desktop publishing

EDUCATION AND TRAINING

2019 Atestat de abilitare, domeniul Inginerie Industriala si Management, OM nr. 5688/30.12.2019

Afiliat scolii doctorale din Facultatea Inginerie Industriala si Robotica, Universitatea Politehnica din Bucuresti

2010 - 2013 Postdoctoral degree diploma

ISCED 6

Universitatea Politehnica din Bucuresti, Facultatea IMST

- Image processing
- artificial intelligence
- NDT penetrant
- industrial automation

2011 - 2013 **Master of Science in Quality Evaluation of materials and products (ECMP), Industrial Engineering** ISCED 6

Universitatea Politehnica din Bucuresti, Facultatea IMST

- quality inspection
- Non-destructive control

1999 - 2002 **PhD diploma in Computer Science** ISCED 6

De Montfort University, Leicester, United Kingdom

- Image processing
- radiographic imaging
- artificial intelligence
- Non-destructive control

1998 - 1999 **Master of Science in Human Computer Systems** ISCED 6

De Montfort University, Leicester, United Kingdom

- Artificial Intelligence, Virtual Environments, Intelligent and Autonomous Robots, Cognitive Psychology, Evolved Interfaces, Human Factors in ICT Systems

1993 - 1998 **Computer Science Engineer** ISCED 5B

Universitatea Politehnica din Bucuresti, Facultatea de Automatica si Calculatoare, Sectia Calculatoare

- Software
- databases
- Interface design
- electronic and integrated devices
- assisted design
- expert systems
- artificial intelligence
- Numerical calculation

1989 - 1993 **Bacalaureat diploma** ISCED 4B

Liceul de Informatica (Matematica Fizica nr. 1), Bucuresti

- computer
- mathematics
- physical
- Romanian
- English

PERSONAL SKILLS

Mother tongue(s) Replace with mother tongue(s)

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2

French

A2

A2

A2

A2

A2

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages

Communication skills

- good communication skills acquired through the experience of manager or project manager for projects with national and European funding
- good communication skills acquired through the activity of the university (working with the students, with the other colleagues, etc.)

Organisational / managerial skills

- Project management: experience gained in European-funded research / development / innovation projects (Longlife Learning, Structural Funds, Erasmus+, EEA grants, National funded grants) – more than 15 project managed in the capacity of project manager or project responsible
- Research / development / innovation center management - experience gained through first-time management as a research director and then as director of the Research / Development / Innovation Center UPB - CAMIS (Center for Research, Consulting and Technical Assistance in Materials Engineering and Welding) from the TMS department, IMST Faculty, Polytechnic University of Bucharest – currently managing over 12 EU funded RDI projects with
- Organizational skills gained through the organization of ANC professional training programs (CNFPA), training programs recognized by CNFP and a postgraduate ICT program for teaching staff in postgraduate education

Job-related skills

- The skills gained in over 20 years in higher education are curriculum design and development, research and professional training, teamwork skills and communication with both students and colleagues, understanding of modern learning / teaching / training concepts, Ability to create successful relationships between business and university.
- Since 2002, I have continuously modernized and managing the Information Technology Lab for students from the specialties of Quality Engineering, Welding Engineering and Industrial Safety Engineering.
- In 2004 I set up the Industrial Automation Laboratory, which I was responsible for until 2012. Within this laboratory, students can experiment with CAD technologies using a KUKA IR welding robot. We have completed 3 completely new laboratory works for IMST, Mechanics, ISB, Transport and Aircraft students at the Materials Technology discipline.
- In 2017 I successfully created and I am currently managing the Additive Manufacturing Research Laboratory.
I have gained experience in logistics and human resources through the fact that I am responsible for the above mentioned laboratories.
- Since 2009 I have been a Research Director at the UPB-CAMIS Research / Development / Innovation Center, and since 2013 I have been the Director of this Center. From this perspective I have acquired managerial skills and teamwork and communication skills, including with the business environment.
- Responsible for Master's Degree Program Quality Engineering 2016-2020, UPB, IMST
- I am responsible for the CAMIS e-Learning Management System and in this capacity I have learned how to setup and customise an e-learning platform and how to convert educational materials into e-learning format.

Computer skills	Programming - C, C++, DBase, Assembler, Pascal, Visual Basic, Borland Delphi, HTML, Java, JavaScript, CSS, XML, XSL Operating systems - Windows 3.11/95/98/2000/NT/XP/Vista/7/8,10,11, Dos, Unix, Linux Pachete software - Microsoft Office (Word, Excel, PowerPoint, Access, FrontPage, Publisher) Graphics and Design - Corel Draw, Photo-Paint, SPICE, Macromedia Director, Macromedia Flash CAD - Autocad, AutoCAD Inventor, Trimble Sketch-up - Additive manufacturing Slicing software - Virtual and Augmented reality generation software - E-learning platforms (e.g. Moodle)
Research skills	▪ Throughout my work, I coordinated students from BSc and MSc programmes for Student Scientific Communication Workshops, some of whom were awarded by the Evaluation Commissions. The scientific research activity is based largely on continuing doctoral and postdoctoral studies. Research experience has been gained also by being a Research Director and Managing Director for the Research Development and Innovation CAMIS center within University Politehnica of Bucharest (www.camis.pub.ro). Thus, my main concern is the application of information technology to industrial processes, as part of the Industry 4.0 related concepts, especially for quality control of products and processes and their automation and additive manufacturing technologies. The publishing activity consists of the presentation of some original results, some of which are successfully applied in the industry (automatic detection of bone fragments in the food industry - algorithms based on image processing and artificial intelligence applied to radiographic images of the controlled product - system built and marketed by Spectral Ltd. in the United Kingdom) and various research findings in the field of 3D printing. Within the research activity I have always made a sustained effort to obtain and realize research / development / innovation contracts through various competitions. I coordinated as project director 6 international research-development-innovation projects, 4 research projects with national funding and more than 10 projects as project responsible. I also participated as an expert in several research contracts with national or international funding. Fields of research and interest include: - Additive Manufacturing - Techniques of Artificial Intelligence applied to industrial engineering - Radiographic imaging and image processing - CAD / CAM systems; computer assisted manufacturing - Augmented and Virtual Reality - Automation of production systems - Automation of quality and material quality evaluation processes
Other skills	- Hobby: enthusiastic aquarist, member of the Aquarist Association of Romania - Bowling: Member and former player in the National Bowling Championship in Romania - Keen fisherman
Driving licence	B, since 1993

ADDITIONAL INFORMATION

Publications	Over 15 academic books in publishers with ISBNs; over 10 specialized / technical books with ISBN; 2 theses; over 40 scientific papers indexed ISI / BDI; 11 scientific papers in periodicals with international circulation; 5 scientific papers in periodicals with national circulation; 24 scientific papers in international events; 15 scientific papers in national events; co-author of 7 patents
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Affiliations

- Asociației Române de Tehnologii Neconventionale
- Asociația pentru Ecotehnologie, membru fondator
- Asociația Universitară de Ingineria Fabricației

Expert evaluator

- Member of the scientific committee 57th CIRP Conference on Manufacturing Systems 2024, <https://www.cirpcms2024.org/>
- Member of the Scientific committee IcNCT 2023 <http://artn.ro/conference2023/>
- Expert evaluator for the French National Centre for Scientific Research (2023)
- Expert evaluator for the Czech Science Foundation (in Czech "Grantová agentura České republiky – GACR") (2023)
- **Expert for the European Commission Horizon Europe** programme, 2021-present
- **Expert for the European Commission Horizon 2020** programme, 2015-present
- **External reviewer** conferința ICSAAM 2017, <http://www.icsaam2017.pub.ro/committees/scientific>
- **External reviewer** revista indexată ISI – Entropy, 2017, ISSN: 1099-4300
- **External reviewer** revista indexată ISI – 3D printing and additive manufacturing, 2017, ISSN: 2329-7662
- **External reviewer** revista indexată ISI – Sensors, 2017, ISSN: 1424-8220
- **External reviewer** revista indexată ISI – Nuclear Science, 2015, ISSN: 1001-8042
- **External reviewer** ICAET 2015
- **External reviewer** revista Elsevier Measurement 2017, ISSN: 0263-2241
- **External reviewer pentru programul de cercetare Horizon 2020 al Comisiei Europene**, 2015, 2016, 2017
- http://ec.europa.eu/research/participants/data/ref/h2020/experts_lists/industrial/ict/h2020-expertslists-industrial-ict-2014_en.xlsx
- **External reviewer Autoritatea Națională pentru Calificări (ANC)**, 2014-2020
- **External reviewer faza B POSDRU**, august 2013-martie 2014 (CPP138, 139, CPP 165, CPP152)
- **External reviewer ANPCDEFP pentru programul ERASMUS+** (exercitiul 2014-2020) al Comisiei Europene, 2014-present
- **External reviewer CNCIS** pentru proiectele de **Cercetare exploratorie, Programul PN2, IDEI**, 2008
- **External reviewer** pentru revista indexată ISI Thomson Reuters **Machine Vision and Applications**, ISSN: 0932-8092, Journal no. 138, Springer, <http://www.springer.com/computer/computer+imaging/journal/138>; <http://ip-science.thomsonreuters.com/cgi-bin/jrnst/jlresults.cgi?PC=MASTER&ISSN=0932-8092>
- **External reviewer** pentru revista indexată ISI Thomson Reuters **Nuclear Science and Techniques**, ISSN: 1001-8042, <http://ip-science.thomsonreuters.com/cgi-bin/jrnst/jlresults.cgi?PC=MASTER&Full=nuclear%20science%20and%20techniques>
- **External reviewer ANPCDEFP** pentru proiectele de Long Life Learning, Leonardo da Vinci, Transfer of Innovation finanțate de Comisia Europeană, din 2009 – prezent
- **External reviewer EC-EACEA** pentru proiectele de Long Life Learning, Leonardo da Vinci, Development of Innovation, finanțate de Comisia Europeană, Brussels, din 2011 - prezent
- **Expert pentru România** în cadrul EU tender EUMIDA "Feasibility study for creating a European university data collection" (2009-2010)
- **external reviewer** în International Conference on Computational Intelligence and Communication Networks (CICN), www.cicn.in

Specializations

- Project Evaluator, COR 241263, Bucharest, 05.02.2016, ANC certificate 00031054 / 12.07.2016
- Project manager, COR 242101, Bucharest, 19.02.2016, ANC certificate 00031048 / 20.02.2017
- Certificate of graduation, 1 year course on Pedagogy in didactic activity, University Politehnica of Bucharest, 2007-2008
- Computer Operator Certificate and Developer Analyst (High School of Informatics, Bucharest, 1993)
- Non-destructive Defectoscopy Diploma, PM Specialization, Level 2 (Politehnica University Bucharest, IMST Faculty, Ministry of Economy and Commerce, 2004)
- Non-destructive Defectoscopy Diploma, US Specialization, Level 2 (Politehnica University Bucharest, IMST Faculty, Ministry of Economy and Commerce, 2004)
- Non-destructive Defectoscopy Diploma, LP Specialization, Level 2 (Politehnica University of Bucharest, IMST Faculty, Ministry of Economy and Commerce, 2004)
- Internal Audit Diploma, (Politehnica University of Bucharest, 2004)
- Lecturer and certified examiner for ECDL courses,
- ECDL CAD Diploma, 2008
- Trainer Certificate, May 2011

Conferences/workshops

- Member of the Scientific Committee of ICSAAM 2017, Bucharest, Romania
- Member of the Scientific Committee of WSEAS Multi-Conference Bucharest, Romania, April 20-22, 2010, with ISI proceedings
- Chairman of International Conference ECC - Computing, WSEAS Multi-Conference, Bucharest, Romania, April 20-22, 2010, with ISI proceedings
- Permanent member of the organization committee of the TQSD (Technology and Quality for Sustained Development)
- Co-chair of the WSEAS (World Scientific and Engineering Academy and Society) European Computing Conference 2010, www.wseas.org
- Co-chair of the WSEAS (World Scientific and Engineering Academy) Computational Intelligence 2010, www.wseas.org
- Member in International Scientific Committee and External Reviewer at the International Conference on Computational Intelligence and Communication Networks (CICN 2010), www.cicn.info
- Program Committee member, International Conference on Computational Intelligence and Communication Systems, 2010, 2011, 2012, 2013

PhD award committees

- PhD external evaluator for the thesis Aplicații ale tehnicilor de scanare DWI și DTI pentru evaluarea rapidă a modificărilor parametrilor specifici în cazul afecțiunilor cerebrale, Universitatea Dunarea de Jos din Galați, 2023
- PhD external evaluator for the thesis Constructive-functional improvement of hexacopter drones to ensure dynamic stability, POLITEHNICA Bucuresti, 2023
- PhD external evaluator for the thesis Web-based monitoring platform for Digital Twin-enabled robotic manufacturing systems, POLITEHNICA Bucuresti, 2023
- PhD external evaluator for the thesis Influența parametrilor regimului de sudare asupra transferului de căldură la depunerea de material prin sudare robotizată, POLITEHNICA Bucuresti, 2023
- PhD External Evaluator, "A Feasible Solution Space Filtering Approach from" Life-oriented Product Structure Specifications "submitted by Ms. Alexia Grech for being graduated from University of Malta, 2011
 - Scientific Reviewer University Politehnica of Bucharest, decision Senate of UPB no. 2429 of 25/11/2013, Dusmanu Teodora Chicioreanu, "Motivation and innovative training strategies. Contrast analysis - technical and artistic education, starting in 2013
 - Scientific Reviewer University Politehnica of Bucharest, Senate Decision no. 244 / 01.07.2016, Viorica Aioniesie, THEORETICAL AND EXPERIMENTAL CONTRIBUTIONS ON THE ENVIRONMENTAL IMPACT OF A MACHINERY CONSTRUCTOR, 2017

Invited professor

- lecturer within the "Universitatii Virtuale de Afaceri", proiect PHARE, 2002-2004
- **Invited lecturer** for the "Adult training course on Integrated Sustainable Development" course, ISD-MT07-15, Malta, 10-14 September 2007
- Visiting Lecturer for EU Grundtvig In-Service Training course on Eco Innovation and Sustainable Development, modulul Computer Aided Tools for Eco Design, 10-14 septembrie 2012, Malta

Vocational training

- Training Responsible for the project "Active on the Labor Market: Technical Skills and Competencies for Integration and Labor Market Employability", Contract no. POSDRU / 125 / 5.1 / S / 125723, 2014-2015, long-term expert
- Training Coordinator - Project POSDRU ID 150650 ANTREPRENOR- Successful Business Ideas and Entrepreneurship Development in the Bucharest-Ilfov and South-West Oltenia Regions Project Coordinator Formation of Teaching Staff in Secondary Education (ISCED 2-3) in order to use information technology and e-learning tools in teaching activity, project POSDRU / 87 / 1.3 / S / 64227, 2010-2012, accrediting CNFP courses Accreditation technologies online (89 hours) and online learning tools (40 hours) ICT Trainer, 2010-2012
- "Development of key competences for successful national evaluations!", Contract Code: POSDRU / 153 / 1.1 / S / 138267 - CNFP Training Program Coordinator "Developing Skills for Creating Key Competencies for Secondary School Students
- Postgraduate Course Coordinator "Information and Computer Technology" (professional conversion course for teachers in pre-university education), 2009-2010
- Trainer in the post-graduate professional conversion course "Vademecum in Information Technology", 2009-2010 (Module Operating Systems and Internet and Web Design)
- Trainer for Ialomita Teaching Staff House (Casa Corpului Didactic), Web Design Course, 2012

Awards

- GOLD MEDAL – The world exhibition of inventions, research and new technologies, Brussels INNOVA 2015, for SHORT FEMORAL STEM CERVICAL ENDOPROSTHESIS, authors Marius MOGA, Augustin SEMENESCU, Mihnea Cosmin COSTOIU, Ileana Mariana MATEȘ, Cezar - Ionuț CĂLIN, Catalin Gheorghe AMZA.
- Trophy and Special Health and Medicine Award INNOVA 2015, The world exhibition of inventions, research and new technologies, Brussels INNOVA 2015, for SHORT FEMORAL STEM CERVICAL ENDOPROSTHESIS, authors Marius MOGA, Augustin SEMENESCU, Mihnea Cosmin COSTOIU, Ileana Mariana MATEȘ, Cezar - Ionuț CĂLIN, Catalin Gheorghe AMZA.
- Medal and Diploma INNOVA 2015, given by European France Inventeurs, The world exhibition of inventions, research and new technologies, Brussels INNOVA 2015, for SHORT FEMORAL STEM CERVICAL ENDOPROSTHESIS, authors Marius MOGA, Augustin SEMENESCU, Mihnea Cosmin COSTOIU, Ileana Mariana MATEȘ, Cezar - Ionuț CĂLIN, Catalin Gheorghe AMZA.
- Medalie și diploma dată de Eurobusiness-Haller and Haller Pro Inventio Foundation, din partea delegației Republicii Polonia, cu ocazia Brussels INNOVA 2015
- Trophy and Diploma INNOVA 2015, given by ORIGINIE Institute of Health and Beauty by Doctor Mukhina, Russian Delegation, The world exhibition of inventions, research and new technologies, Brussels INNOVA 2015, for SHORT FEMORAL STEM CERVICAL ENDOPROSTHESIS, authors Marius MOGA, Augustin SEMENESCU, Mihnea Cosmin COSTOIU, Ileana Mariana MATEȘ, Cezar - Ionuț CĂLIN, Catalin Gheorghe AMZA.
- Distinctia The Merits of Innovation - Chevalier Européen (in grad de cavalier), European Innovation Awards, Brussels, 2015
- PREMIUL pentru Medicina si sanatate premiu oferit de Cezar Caluschi GM at Oameni si Companii in cadrul GALA GLOBAL MANAGER-GLOBAL INNOVATION, GLOBAL TECHNOLOGY 2015, organizata in data de 8 dec. 2015 la Hotel CARO, Bucuresti, de OAMENI SI COMPANII - Connecting leaders. Spreading Ideas. Changing minds
- The XIV edition of the International Exhibition of Research, Innovation and Inventions PRO INVENT, Cluj-Napoca, Romania, 23-25th of March 2016; The Academy of Technical Sciences-Cluj branch TUC-N Great Prize Pro-Invent 2016 and Trophy (Marele Premiu al UTC-N si Trofeul) for SHORT FEMORAL STEM CERVICAL ENDOPROSTHESIS, authors Marius MOGA, Augustin SEMENESCU, Mihnea Cosmin COSTOIU, Ileana Mariana MATEȘ, Cezar - Ionuț CĂLIN, Catalin Gheorghe AMZA.
- Diploma of Excellence awarded by University of Craiova, Romania-The XIV edition of the International Exhibition of Research, Innovation and Inventions PRO INVENT, Cluj-Napoca, Romania, 23-25th of March 2016. for SHORT FEMORAL STEM CERVICAL ENDOPROSTHESIS, authors Marius MOGA, Augustin SEMENESCU, Mihnea Cosmin COSTOIU, Ileana Mariana MATEȘ, Cezar - Ionuț CĂLIN, Catalin Gheorghe AMZA. Diploma of Excellence awarded by University of Craiova, Romania
- Diploma of Excellence and Trophy (Diploma de Excelență și Trofeu) awarded by The Agency of Intellectual Property of the Republic of Moldova - The XIV edition of the International Exhibition of Research, Innovation and Inventions PRO INVENT, Cluj-Napoca, Romania, 23-25th of March 2016 for SHORT FEMORAL STEM CERVICAL ENDOPROSTHESIS, authors Marius MOGA, Augustin SEMENESCU, Mihnea Cosmin COSTOIU, Ileana Mariana MATEȘ, Cezar - Ionuț CĂLIN, Catalin Gheorghe AMZA. Diploma of Excellence awarded by University of Craiova, Romania
- Diploma of Excellence awarded by Technical University of Moldova, Republic of Moldova - The XIV edition of the International Exhibition of Research, Innovation and Inventions PRO INVENT, Cluj-Napoca, Romania, 23-25th of March 2016 for SHORT FEMORAL STEM CERVICAL ENDOPROSTHESIS, authors Marius MOGA, Augustin SEMENESCU, Mihnea Cosmin COSTOIU, Ileana Mariana MATEȘ, Cezar - Ionuț CĂLIN, Catalin Gheorghe AMZA. Diploma of Excellence awarded by University of Craiova, Romania
- GOLD MEDAL-- EUROPEAN EXHIBITION OF CREATIVITY AND INNOVATION - EUROINVENT, IAȘI – ROMANIA, Ediția a VII-a, 20-21 Mai 2016 (EUROINVENT este singurul eveniment din România care se desfășoară cu sprijinul IFIA - International Federation of Inventors' Associations și WIIPA - World Inventions

Intellectual Property Associations, devenind astfel un eveniment european de elită în domeniul inovării și cercetării) (<http://www.euroinvent.org>) for SHORT FEMORAL STEM CERVICAL ENDOPROSTHESIS, authors Marius MOGA, Augustin SEMENESCU, Mihnea Cosmin COSTOIU, Ileana Mariana MATEȘ, Cezar - Ionuț CĂLIN, Catalin Gheorghe AMZA.

- Special Innovation Award-Union of Inventors MOROCCO -- EUROPEAN EXHIBITION OF CREATIVITY AND INNOVATION -E U R O I N V E N T , IAȘI – ROMANIA (Member of IFIA - International Federation of Inventors' Associations și WIIPA - World Inventions Intellectual Property Associations), Ediția a VIIa, 20-21 Mai 2016 (<http://www.euroinvent.org>) for SHORT FEMORAL STEM CERVICAL ENDOPROSTHESIS, authors Marius MOGA, Augustin SEMENESCU, Mihnea Cosmin COSTOIU, Ileana Mariana MATEȘ, Cezar - Ionuț CĂLIN, Catalin Gheorghe AMZA.
- Scientific Contribution Award-- EUROPEAN EXHIBITION OF CREATIVITY AND INNOVATION -E U R O I N V E N T , IAȘI – ROMANIA (Member of IFIA - International Federation of Inventors' Associations și WIIPA - World Inventions Intellectual Property Associations), Ediția a VIIa, 20-21 Mai 2016 (<http://www.euroinvent.org>) for SHORT FEMORAL STEM CERVICAL ENDOPROSTHESIS, authors Marius MOGA, Augustin SEMENESCU, Mihnea Cosmin COSTOIU, Ileana Mariana MATEȘ, Cezar - Ionuț CĂLIN, Catalin Gheorghe AMZA.
- Special Award – ZAGREB INVENTORS ASSOCIATION-- EUROPEAN EXHIBITION OF CREATIVITY AND INNOVATION -E U R O I N V E N T , IAȘI – ROMANIA (Member of IFIA - International Federation of Inventors' Associations și WIIPA - World Inventions Intellectual Property Associations), Ediția a VIIa, 20-21 Mai 2016 (<http://www.euroinvent.org>) for SHORT FEMORAL STEM CERVICAL ENDOPROSTHESIS, authors Marius MOGA, Augustin SEMENESCU, Mihnea Cosmin COSTOIU, Ileana Mariana MATEȘ, Cezar - Ionuț CĂLIN, Catalin Gheorghe AMZA.
- GOLD MEDAL-- Salonul Internațional de Invenții și Inovații „TRAIAN VUIA” Timișoara ediția II, în perioada 25-27 mai 2016, for SHORT FEMORAL STEM CERVICAL ENDOPROSTHESIS, authors Marius MOGA, Augustin SEMENESCU, Mihnea Cosmin COSTOIU, Ileana Mariana MATEȘ, Cezar - Ionuț CĂLIN, Catalin Gheorghe AMZA.
- Special Award-SIB-- Salonul Internațional de Invenții și Inovații „TRAIAN VUIA” Timișoara ediția II, în perioada 25-27 mai 2016, for SHORT FEMORAL STEM CERVICAL ENDOPROSTHESIS, authors Marius MOGA, Augustin SEMENESCU, Mihnea Cosmin COSTOIU, Ileana Mariana MATEȘ, Cezar - Ionuț CĂLIN, Catalin Gheorghe AMZA.
- GOLD MEDAL, The 44-th International Exhibition of Inventions of Geneva-The world's most important, 13 > 17 April 2016, Palexpo Hall 7 (www.inventions-geneva.ch) for SHORT FEMORAL STEM CERVICAL ENDOPROSTHESIS, authors Marius MOGA, Augustin SEMENESCU, Mihnea Cosmin COSTOIU, Ileana Mariana MATEȘ, Cezar - Ionuț CĂLIN, Catalin Gheorghe AMZA.
- ARCA AWARD - Union of Croatia Innovators, The 44-th International Exhibition of Inventions of Geneva-The world's most important, 13 > 17 April 2016, Palexpo Hall 7 (www.inventions-geneva.ch) for SHORT FEMORAL STEM CERVICAL ENDOPROSTHESIS, authors Marius MOGA, Augustin SEMENESCU, Mihnea Cosmin COSTOIU, Ileana Mariana MATEȘ, Cezar - Ionuț CĂLIN, Catalin Gheorghe AMZA.
- HONORABLE MENTION - China Delegation of Invention and Innovation, The 44-th International Exhibition of Inventions of Geneva-The world's most important, 13 > 17 April 2016, Palexpo Hall 7 (www.inventions-geneva.ch) for SHORT FEMORAL STEM CERVICAL ENDOPROSTHESIS, authors Marius MOGA, Augustin SEMENESCU, Mihnea Cosmin COSTOIU, Ileana Mariana MATEȘ, Cezar - Ionuț CĂLIN, Catalin Gheorghe AMZA.
- CERTIFICATE AWARD - Turkish Patent Institute, The 44-th International Exhibition of Inventions of Geneva-The world's most important, 13 > 17 April 2016, Palexpo Hall 7 (www.inventions-geneva.ch),) for SHORT FEMORAL STEM CERVICAL ENDOPROSTHESIS, authors Marius MOGA, Augustin SEMENESCU, Mihnea Cosmin COSTOIU, Ileana Mariana MATEȘ, Cezar - Ionuț CĂLIN, Catalin Gheorghe AMZA.
- GOLD MEDAL —INTERNATIONAL FAIR OF INVENTION AND PRACTICAL IDEAS SIR, IAȘI – ROMANIA (Member of IFIA - International Federation of Inventors' Associations și WIIPA - World Inventions Intellectual Property Associations), September 115-18, 2016 (<http://www.inventica.org.ro/inventica2016/salon.html>) for SHORT FEMORAL STEM CERVICAL ENDOPROSTHESIS, authors Marius MOGA, Augustin SEMENESCU, Mihnea Cosmin COSTOIU, Ileana Mariana MATEȘ, Cezar - Ionuț CĂLIN, Catalin Gheorghe AMZA.
- HEALTH AWARD INTERNATIONAL FAIR OF INVENTION AND PRACTICAL IDEAS SIR, IAȘI – ROMANIA (Member of IFIA - International Federation of Inventors' Associations și WIIPA - World Inventions Intellectual Property Associations), September 115-18, 2016 (<http://www.inventica.org.ro/inventica2016/salon.html>) for SHORT FEMORAL STEM CERVICAL ENDOPROSTHESIS, authors Marius MOGA, Augustin SEMENESCU, Mihnea Cosmin COSTOIU, Ileana Mariana MATEȘ, Cezar - Ionuț CĂLIN, Catalin Gheorghe AMZA.
- GOLD MEDAL THE HAMANGIA THINKER—INTERNATIONAL SALON -INVENTICA , IAȘI – ROMANIA (Member of IFIA - International Federation of Inventors' Associations și WIIPA - World Inventions Intellectual Property Associations), June 29- July 1 2016 (<http://www.inventica.org.ro/inventica2016/salon.html>) for SHORT FEMORAL STEM CERVICAL ENDOPROSTHESIS, authors Marius MOGA, Augustin SEMENESCU, Mihnea Cosmin COSTOIU, Ileana Mariana MATEȘ, Cezar - Ionuț CĂLIN, Catalin Gheorghe AMZA.
- GOLD MEDAL of 65th Edition Brussels INNOVA 2016 for “Semiconstrained Total Elbow Prosthesis Made of Shape-Memory Alloys, with Coupling System Based on Shape-Memory Effect” invented by Batalu Nicolae-Dan, Semenescu Augustin, Costoiu Mihnea Cosmin, Antoniac Vasile Iulian, Doicin Cristian Vasile, Amza Cătălin Gheorghe, Mateș Ileana Mariana, Chivu Oana Roxana, Codorean Ion Bogdan, Barbu Cătălin Alexandru, Bădică Petre, Negoită Olivia Doina, presented at 65th Edition Brussels Innova 2016: International Innovation Fair (17th-19th of November 2016).
- TROPHY and Diploma “Outstanding Innovation Award” offered by Bioactive Resources for Innovative Clinical Application Excellent Center, Thailand, 19th of November 2016, for “Semiconstrained Total Elbow Prosthesis

- Made of Shape-Memory Alloys, with Coupling System Based on Shape-Memory Effect" invented by Batalu Nicolae-Dan, Semenescu Augustin, Costoiu Mihnea Cosmin, Antoniac Vasile Iulian, Doicin Cristian Vasile, Amza Cătălin Gheorghe, Mateș Ileana Mariana, Chivu Oana Roxana, Codorean Ion Bogdan, Barbu Cătălin Alexandru, Bădică Petre, Negoită Olivia Doina, presented at 65th Edition Brussels Innova 2016: International Innovation Fair (17th-19th of November 2016).
- MEDAL and Diploma on behalf of the inventors and co-workers of Industrial Chemistry Research Institute of Warsaw, Poland, Brussels November 2016, awarded by professor Regina Jeziorska, Manager of Polymer Technology and Processing Department for "Semiconstrained Total Elbow Prosthesis Made of Shape-Memory Alloys, with Coupling System Based on Shape-Memory Effect" invented by Batalu Nicolae-Dan, Semenescu Augustin, Costoiu Mihnea Cosmin, Antoniac Vasile Iulian, Doicin Cristian Vasile, Amza Cătălin Gheorghe, Mateș Ileana Mariana, Chivu Oana Roxana, Codorean Ion Bogdan, Barbu Cătălin Alexandru, Bădică Petre, Negoită Olivia Doina, presented at 65th Edition Brussels Innova 2016: International Innovation Fair (17th-19th of November 2016).
 - MEDAL and Diploma "Outstanding Innovation Award" offered by Bioactive Resources for Innovative Clinical Application Excellent Center, Thailand, 19th of November 2016, for "Semiconstrained Total Elbow Prosthesis Made of Shape-Memory Alloys, with Coupling System Based on Shape-Memory Effect" invented by Batalu Nicolae-Dan, Semenescu Augustin, Costoiu Mihnea Cosmin, Antoniac Vasile Iulian, Doicin Cristian Vasile, Amza Cătălin Gheorghe, Mateș Ileana Mariana, Chivu Oana Roxana, Codorean Ion Bogdan, Barbu Cătălin Alexandru, Bădică Petre, Negoită Olivia Doina, presented at 65th Edition Brussels Innova 2016: International Innovation Fair (17th-19th of November 2016).
 - PLATINUM MEDAL & INTARG®, DIPLOMA International Invention and Innovation Show, INTARG® POLAND, Awarded to: University POLITEHNICA of Bucharest for the invention: INSTALLATION FOR EVALUATING QUALITY OF INDUSTRIAL PRODUCTS, The President of International Jury Prof. Krzysztof Biernat, , The President of Eurobusiness-Haller Barbara Haller de Hallenburg, 125, 20-21 June 2018 Katowice, Poland;
 - "MINISTERSTWO INWESTYCJI I ROZWOJU, DYPLOM DLA University POLITEHNICA of Bucharest, w związku z przyznaniem przez jury 11. Międzynarodowych Targów Wynalazków i Innowacji INTARG 2018, Nagrody Platynowej za Installation for evaluating quality of industrial products, Jerzy Kwieciński Minister Inwestycji i Rozwoju, Katowice, 21 czerwca 2018 r.
 - (MINISTRY OF INVESTMENT AND DEVELOPMENT, DIPLOMA FOR POLITEHNICA University of Bucharest, in connection with the jury of the 11th International Fair of Inventions and Innovations INTARG 2018, PLATINUM PRIZE for Installation for evaluating the quality of industrial products, Jerzy Kwieciński Minister of Investment and Development, Katowice, June 21, 2018."
 - . MEDALIA DE ARGINT și DIPLOMA se acordă pentru invenția INSTALATIE DE EVALUAREA CALITATII PRODUSELOR INDUSTRIALE, autori AMZA Catalin Gheorghe, CICIC Dumitru Titi, POPESCU Diana, AMZA Gheorghe, SEMENESCU Augustin, Salonul Internațional de Invenții și Inovații „TRAIAN VUIA” Timișoara ediția IV, în perioada 13-15 Iunie 2018, Presedinte Juriu Radu Dimeca, Presedinte salon Remi Radulescu
 - EXCELLENCE DIPLOMA and SPECIAL PRIZE for work OSIM A/00707, OSIM A/ 00914, OSIM A/00672, OSIM A/01173, OSIM A/ 00133, OSIM A/00913, RO 128159B1, OSIM A/ 00528, OSIM A/ 00537, prezentate la Salonul de Inventii TRAIAN VUIA 2018. Authors UNIVERSITATEA POLITEHNICA BUCURESTI. Universitatea de Științe Agricole și Medicina Veterinara a Banatului " Regele Mihai I al României" din Timisoara Rector Prof univ. dr.ing.Cosmin-Alin Popescu, Vicerector for research-innovation Prof univ. dr.Isidora Radulov.
 - DIPLOMA OF EXCELLENCE E U R O I N V E N T 10th European Exhibition of Creativity and Innovation Iasi, Romania, 17-19 May 2018 is awarded to: Amza Catalin Gheorghe, Cicic Dumitru Titi, Popescu Diana, Amza Gheorghe, Semenescu Augustin for INSTALLATION FOR EVALUATING QUALITY OF INDUSTRIAL PRODUCTS.
 - DIPLOMA DE EXCELENTA SI MEDALIA DE AUR se acorda pentru INSTALATIE DE EVALUAREA CALITATII PRODUSELOR INDUSTRIALE (INSTALLATION FOR EVALUATING QUALITY OF INDUSTRIAL PRODUCTS), Autori: AMZA Catalin Gheorghe, CICIC Dumitru Titi, POPESCU Diana, AMZA Gheorghe, SEMENESCU Augustin, RO128159 B1 din 29.05.2015, Salonul Internațional al Cercetării Științifice, Inovării și Inventicii PRO INVENT, ediția a XVI-a, 21-23 martie 2018, Sala Polivalentă, CLUJ-NAPOCA.
 - MARELE PREMIU al Universitatii Tehnice se acorda Universitatii POLITEHNICA Bucuresti pentru inventiile prezentate la salonul Pro Invent 2018, OSIM A/00707 din 8.11.2017, OSIM A/00914 din 9.11.2017, OSIM A/00672 din 18.09.2017, OSIM A/01173 din 28.12.2017, OSIM 00133/ 06.03.2017, OSIM A 00913/09.11.2017, RO128159 B1 din 29.05.2015, RO131943(A0) 2017-06-30. (CRANIAL ENDOPROTHESIS WITH A SLIDING SYSTEM, CRANIAL IMPLANT WITH OSTEOINTEGRATING STRUCTURES AND FUNCTIONAL COATINGS, ACETABULAR MILLING DEVICE, ANOSCOPE WITH ADJUSTABLE OPERATIVE FIELD, METHOD AND INSTALLATION FOR ELECTROCHEMICAL OBTAINING OF A COMPOSITE MATERIAL WITH METALLIC MATRIX, ESO-TRAHEOSCOPE, INSTALLATION FOR EVALUATING QUALITY OF INDUSTRIAL PRODUCTS, METHOD FOR OBTAINING SCAFFOLDS WITH PREDETERMINED PHYSICO-CHEMICAL CHARACTERISTICS FOR MAJOR BONE

- RECONSTRUCTION), Salonul Internațional al Cercetării Științifice, Inovării și Inventicii PRO INVENT, ediția a XVI-a, 21-23 martie 2018, Sala Polivalentă, CLUJ-NAPOCA
- GOLD MEDAL and Diploma offered by the JURY of The 45-th International Exhibition of Inventions of Geneva-2017, for "Semiconstrained Total Elbow Prosthesis Made of Shape-Memory Alloys, with Coupling System Based on Shape-Memory Effect" invented by Batalu Nicolae-Dan, Semenescu Augustin, Costoiu Mihnea Cosmin, Antoniac Vasile Iulian, Doicin Cristian Vasile, Amza Cătălin Gheorghe, Mateș Ileana Mariana, Chivu Oana Roxana, Codorean Ion Bogdan, Barbu Cătălin Alexandru, Bădică Petre, Negoită Olivia Doina, presented at The 45-th International Exhibition of Inventions of Geneva-2017.
 - GOLD MEDAL and Diploma offered by the Association of PORTUGUESE Inventors, Innovators & Creatives- Geneva-2017, for "Semiconstrained Total Elbow Prosthesis Made of Shape-Memory Alloys, with Coupling System Based on Shape-Memory Effect" invented by Batalu Nicolae-Dan, Semenescu Augustin, Costoiu Mihnea Cosmin, Antoniac Vasile Iulian, Doicin Cristian Vasile, Amza Cătălin Gheorghe, Mateș Ileana Mariana, Chivu Oana Roxana, Codorean Ion Bogdan, Barbu Cătălin Alexandru, Bădică Petre, Negoită Olivia Doina, presented at The 45-th International Exhibition of Inventions of Geneva-2017
 - GOLD MEDAL and Diploma offered by TAIWAN Invention Association - Geneva-2017, for "Semiconstrained Total Elbow Prosthesis Made of Shape-Memory Alloys, with Coupling System Based on Shape-Memory Effect" invented by Batalu Nicolae-Dan, Semenescu Augustin, Costoiu Mihnea Cosmin, Antoniac Vasile Iulian, Doicin Cristian Vasile, Amza Cătălin Gheorghe, Mateș Ileana Mariana, Chivu Oana Roxana, Codorean Ion Bogdan, Barbu Cătălin Alexandru, Bădică Petre, Negoită Olivia Doina, presented at The 45-th International Exhibition of Inventions of Geneva-2017
 - Trophy & SPECIAL AWARD of OSIM (State Office for Inventions & Trademarks) RO – Geneva, 2017, for "Semiconstrained Total Elbow Prosthesis Made of Shape-Memory Alloys, with Coupling System Based on Shape-Memory Effect" invented by Batalu Nicolae-Dan, Semenescu Augustin, Costoiu Mihnea Cosmin, Antoniac Vasile Iulian, Doicin Cristian Vasile, Amza Cătălin Gheorghe, Mateș Ileana Mariana, Chivu Oana Roxana, Codorean Ion Bogdan, Barbu Cătălin Alexandru, Bădică Petre, Negoită Olivia Doina, presented at The 45-th International Exhibition of Inventions of Geneva-2017
 - DIPLÔME & MEDAILLE DE L'AGEPI (AGENCE D'ÉTAT POUR LA PROPRIÉTÉ INTÉLLECTUELLE DE LA RÉPUBLIQUE DE MOLDAVIE) – Pour ses mérites à la "The 45-th International Exhibition of Inventions of Geneva-2017", for "Semiconstrained Total Elbow Prosthesis Made of Shape-Memory Alloys, with Coupling System Based on Shape-Memory Effect" invented by Batalu Nicolae-Dan, Semenescu Augustin, Costoiu Mihnea Cosmin, Antoniac Vasile Iulian, Doicin Cristian Vasile, Amza Cătălin Gheorghe, Mateș Ileana Mariana, Chivu Oana Roxana, Codorean Ion Bogdan, Barbu Cătălin Alexandru, Bădică Petre, Negoită Olivia Doina,.
 - GOLD MEDAL and Diploma of Excellence --INVENTION POT-- KINGDOM of SAUDI ARABIA Geneva, 2017, for "Semiconstrained Total Elbow Prosthesis Made of Shape-Memory Alloys, with Coupling System Based on Shape-Memory Effect" invented by Batalu Nicolae-Dan, Semenescu Augustin, Costoiu Mihnea Cosmin, Antoniac Vasile Iulian, Doicin Cristian Vasile, Amza Cătălin Gheorghe, Mateș Ileana Mariana, Chivu Oana Roxana, Codorean Ion Bogdan, Barbu Cătălin Alexandru, Bădică Petre, Negoită Olivia Doina, presented at The 45-th International Exhibition of Inventions of Geneva-2017
 - GOLD MEDAL and Diploma of Excellence, The XV edition of the International Exhibition of Research, Innovation and Inventions PRO INVENT, Cluj-Napoca, Romania, 22-24th of March 2017, for "Semiconstrained Total Elbow Prosthesis Made of Shape-Memory Alloys, with Coupling System Based on Shape-Memory Effect" invented by Batalu Nicolae-Dan, Semenescu Augustin, Costoiu Mihnea Cosmin, Antoniac Vasile Iulian, Doicin Cristian Vasile, Amza Cătălin Gheorghe, Mateș Ileana Mariana, Chivu Oana Roxana, Codorean Ion Bogdan, Barbu Cătălin Alexandru, Bădică Petre, Negoită Olivia Doina.
 - TROPHY & PRIZE FOR EXCELENCY IN TECHNICAL CREATIVITY-Pro-Invent 2017 , Universitatea Tehnica Gheorghe Asachi, Iași, Romania, Institutul National de Inventica, Iași, Romania, The XV edition of the International Exhibition of Research, Innovation and Inventions PRO INVENT, Cluj-Napoca, Romania, 22-24th of March 2017.
 - GOLD MEDAL and Diploma INNOVA BARCELONA, The II-nd edition of the World Exhibition on Inventions, Research, and New Technologies, Barcelona, SPAIN, 4-6th of May 2017, for "Semiconstrained Total Elbow Prosthesis Made of Shape-Memory Alloys, with Coupling System Based on Shape-Memory Effect" invented by Batalu Nicolae-Dan, Semenescu Augustin, Costoiu Mihnea Cosmin, Antoniac Vasile Iulian, Doicin Cristian Vasile, Amza Cătălin Gheorghe, Mateș Ileana Mariana, Chivu Oana Roxana, Codorean Ion Bogdan, Barbu Cătălin Alexandru, Bădică Petre, Negoită Olivia Doina.
 - OUTSTANDING INNOVATION AWARD, offered by Bioactive Resources for Innovative Clinical

Application Excellent Centre, THAILAND, INNOVA BARCELONA, The II-nd edition of the World Exhibition on Inventions, Research, and New Technologies, Barcelona, SPAIN, 4-6th of May 2017, for "Semiconstrained Total Elbow Prosthesis Made of Shape-Memory Alloys, with Coupling System Based on Shape-Memory Effect" invented by Batalu Nicolae-Dan, Semenescu Augustin, Costoiu Mihnea Cosmin, Antoniac Vasile Iulian, Doicin Cristian Vasile, Amza Cătălin Gheorghe, Mateş Ileana Mariana, Chivu Oana Roxana, Codorean Ion Bogdan, Barbu Cătălin Alexandru, Bădică Petre, Negoită Olivia Doina.

- PRIZE OF ROMANIAN INVENTORS FORUM — CUP & DIPLOMA, EUROPEAN EXHIBITION OF CREATIVITY AND INNOVATION -E U R O I N V E N T 2017, IAŞI – ROMANIA (Member of IFIA - International Federation of Inventors' Associations şi WIIPA - World Inventions Intellectual Property Associations), IX-th-Edition, 25-27 May 2017 (<http://www.euroinvent.org>) for Patents Demands RO131261(A0), RO131379 (A0), RO131543(A2), RO131500(A0), RO 0001/2017(A0)
- DIPLOMA DE EXCELENTA si MEDALIE DE AUR- Universitatea din Craiova, in semn de recunoastere si pretuire pentru spiritual novator afirmat in domeniul cercetarii stiintifice, concretizate in realizarea brevetului SEMICONSTRAINED TOTAL ELBOW PROSTHESIS MADE OF SHAPE-MEMORY ALLOYS, WITH COUPLING SYSTEM BASED ON SHAPE-MEMORY EFFECT, autori BATALU Nicolae-Dan, SEMENESCU Augustin, COSTOIU Mihnea Cosmin, ANTONIAC Vasile Iulian, DOICIN Cristian-Vasile, AMZA Cătălin Gheorghe, MATEŞ Ileana-Mariana, CHIVU Oana-Roxana, CODOREAN Ion-Bogdan, BARBU Cătălin-Alexandru, BĂDICĂ Petre, NEGOIŢĂ Olivia-Doina, EUROPEAN EXHIBITION OF CREATIVITY AND INNOVATION -E U R O I N V E N T 2017, IAŞI – ROMANIA (Member of IFIA - International Federation of Inventors' Associations şi WIIPA - World Inventions Intellectual Property Associations), IX-th-Edition, 25-27 May 2017 (<http://www.euroinvent.org>)
- Special Innovation Award & GOLD MEDAL - Union of Inventors MOROCCO -- for BATALU Nicolae-Dan, SEMENESCU Augustin, COSTOIU Mihnea Cosmin, ANTONIAC Vasile Iulian, DOICIN Cristian-Vasile, AMZA Cătălin Gheorghe, MATEŞ Ileana-Mariana, CHIVU Oana-Roxana, CODOREAN Ion-Bogdan, BARBU Cătălin-Alexandru, BĂDICĂ Petre, NEGOIŢĂ Olivia-Doina, recognizing the Excellent and Creative Invention SEMICONSTRAINED TOTAL ELBOW PROSTHESIS MADE OF SHAPE-MEMORY ALLOYS, WITH COUPLING SYSTEM BASED ON SHAPE-MEMORY EFFECT, EUROPEAN EXHIBITION OF CREATIVITY AND INNOVATION -E U R O I N V E N T 2017, IAŞI – ROMANIA (Member of IFIA - International Federation of Inventors' Associations şi WIIPA - World Inventions Intellectual Property Associations), IX-th-Edition, 25-27 May 2017 (<http://www.euroinvent.org>)
- WIIPA (World Invention Intellectual Property Associations) MEDAL & HONOR of INVENTION Diploma presented to BATALU Nicolae-Dan, SEMENESCU Augustin, COSTOIU Mihnea Cosmin, ANTONIAC Vasile Iulian, DOICIN Cristian-Vasile, AMZA Cătălin Gheorghe, MATEŞ Ileana-Mariana, CHIVU Oana-Roxana, CODOREAN Ion-Bogdan, ru BARBU Cătălin-Alexandru, BĂDICĂ Petre, NEGOIŢĂ Olivia-Doina, in recognition of SEMICONSTRAINED TOTAL ELBOW PROSTHESIS MADE OF SHAPE-MEMORY ALLOYS, WITH COUPLING SYSTEM BASED ON SHAPE-MEMORY EFFECT, exhibited at EUROPEAN EXHIBITION OF CREATIVITY AND INNOVATION -E U R O I N V E N T 2017, IAŞI – ROMANIA (Member of IFIA - International Federation of Inventors' Associations şi WIIPA - World Inventions Intellectual Property Associations), IX-th-Edition, 25-27 May 2017 (<http://www.euroinvent.org>)
- DIPLOMA of GOLD MEDAL-- presented to BATALU Nicolae-Dan, SEMENESCU Augustin, COSTOIU Mihnea Cosmin, ANTONIAC Vasile Iulian, DOICIN Cristian-Vasile, AMZA Cătălin Gheorghe, MATEŞ Ileana-Mariana, CHIVU Oana-Roxana, CODOREAN Ion-Bogdan, ru BARBU Cătălin-Alexandru, BĂDICĂ Petre, NEGOIŢĂ Olivia-Doina, in recognition of SEMICONSTRAINED TOTAL ELBOW PROSTHESIS MADE OF SHAPE-MEMORY ALLOYS, WITH COUPLING SYSTEM BASED ON SHAPE-MEMORY EFFECT, exhibited at EUROPEAN EXHIBITION OF CREATIVITY AND INNOVATION -E U R O I N V E N T 2017, IAŞI – ROMANIA (Member of IFIA - International Federation of Inventors' Associations şi WIIPA - World Inventions Intellectual Property Associations), IX-th-Edition, 25-27 May 2017 (<http://www.euroinvent.org>)
- DIPLOMA of GOLD MEDAL-- presented to Dan Batalu, Augustin Semenescu, Mihnea Cosmin Costoiu, Ioanel Sinescu, Vasile Iulian Antoniac, Cristian Vasile Doicin, Ion Bogdan Codorean, Ileana Mariana Mates, Catalin Alexandru Barbu, Petre Badica, Traian Stefan Gavrilu, for TOTAL CONSTRAINED ELBOW IMPLANT, MADE OF SHAPE MEMORY ALLOYS, WITH A HINGE-LIKE LOCKING SYSTEM AND COUPLING SYSTEM BASED ON SHAPE MEMORY EFFECT, exhibited at EUROPEAN EXHIBITION OF CREATIVITY AND INNOVATION -E U R O I N V E N T 2017, IAŞI – ROMANIA (Member of IFIA - International Federation of Inventors' Associations şi WIIPA - World Inventions Intellectual Property Associations), IX-th-Edition, 25-27 May 2017 (<http://www.euroinvent.org>)

- MEDALIE DE AUR SI DIPLOMA pentru PROTEZĂ TOTALĂ DE COT SEMICONSTRÂNSĂ, DIN ALIAJE CU MEMORIA FORMEI, CU SISTEM DE CUPLARE PE BAZĂ DE EFECT AL MEMORIEI FORMEI, autori BATALU Nicolae-Dan, SEMENESCU Augustin, COSTOIU Mihnea Cosmin, ANTONIAC Vasile Iulian, DOICIN Cristian-Vasile, AMZA Cătălin Gheorghe, MATEȘ Ileana-Mariana, CHIVU Oana-Roxana, CODOREAN Ion-Bogdan, BARBU Cătălin-Alexandru, BĂDICĂ Petre, NEGOIȚĂ Olivia-Doina, Salonul Internațional de Invenții și Inovații „TRAIAN VUIA” Timișoara ediția III, în perioada 7-9 Iunie 2017.
- PREMIU SPECIAL, MEDALIE DE AUR SI DIPLOMA din partea Universității de Medicina si Farmacie ‘VICTOR BABEȘ’ din Timișoara pentru PROTEZĂ TOTALĂ DE COT SEMICONSTRÂNSĂ, DIN ALIAJE CU MEMORIA FORMEI, CU SISTEM DE CUPLARE PE BAZĂ DE EFECT AL MEMORIEI FORMEI, autori BATALU Nicolae-Dan, SEMENESCU Augustin, COSTOIU Mihnea Cosmin, ANTONIAC Vasile Iulian, DOICIN Cristian-Vasile, AMZA Cătălin Gheorghe, MATEȘ Ileana-Mariana, CHIVU Oana-Roxana, CODOREAN Ion-Bogdan, BARBU Cătălin-Alexandru, BĂDICĂ Petre, NEGOIȚĂ Olivia-Doina, Salonul Internațional de Invenții și Inovații „TRAIAN VUIA” Timișoara ediția III, în perioada 7-9 Iunie 2017.
- EXCELENCE DIPLOMA and SPECIAL PRIZE(TROPHY) from Banat’ s University of Agricultural Sciences and Veterinary Medicine ‘King Michael I of Romania’ from Timișoara for Patents Demands RO131261(A0), RO131379 (A0), RO131543(A2), RO131500(A0), RO 0001/2017(A0), , Salonul Internațional de Invenții și Inovații „TRAIAN VUIA” Timișoara ediția III, în perioada 7-9 Iunie 2017.
- GOLD MEDAL INVENTICA 2017 & DIPLOMA in recognition of high scientific contribution and loyalty to the XXI-th International Salon of Research, Innovation and Technological Transfer, Iasi, Romania, June 28-June 30 2017 offered to BATALU Nicolae-Dan, SEMENESCU Augustin, COSTOIU Mihnea Cosmin, ANTONIAC Vasile Iulian, DOICIN Cristian-Vasile, AMZA Cătălin Gheorghe, MATEȘ Ileana-Mariana, CHIVU Oana-Roxana, CODOREAN Ion-Bogdan, BARBU Cătălin-Alexandru, BĂDICĂ Petre, NEGOIȚĂ Olivia-Doina, for SEMICONSTRAINED TOTAL ELBOW PROSTHESIS MADE OF SHAPE-MEMORY ALLOYS, WITH COUPLING SYSTEM BASED ON SHAPE-MEMORY EFFECT
- GOLD MEDAL INVENTICA 2017 & DIPLOMA in recognition of high scientific contribution and loyalty to the XXI-th International Salon of Research, Innovation and Technological Transfer, Iasi, Romania, June 28-June 30 2017 offered to F. Miculescu, M. Miculescu, M.C.Costoiu, O.R.Chivu, C.A. Barbu, A. Semenescu for MECHANO-ELECTRIC LAUNDRY DRYER
- GRAND PRIZE CUP INVENTICA 2017 & DIPLOMA in recognition of high scientific contribution and loyalty to the XXI-th International Salon of Research, Innovation and Technological Transfer, Iasi, Romania, June 28-June 30 2017, is offered for Patents Demands RO131261(A0), RO131379 (A0), RO131543(A2), RO131500(A0), RO 0001/2017(A0)
- GOLD MEDAL IWIS 2017 WARSAW (POLAND, 9-11 Oct.) & DIPLOMA offered to BATALU Nicolae-Dan, SEMENESCU Augustin, COSTOIU Mihnea Cosmin, ANTONIAC Vasile Iulian, DOICIN Cristian-Vasile, AMZA Cătălin Gheorghe, MATEȘ Ileana-Mariana, CHIVU Oana-Roxana, CODOREAN Ion-Bogdan, BARBU Cătălin-Alexandru, BĂDICĂ Petre, NEGOIȚĂ Olivia-Doina, for SEMICONSTRAINED TOTAL ELBOW PROSTHESIS MADE OF SHAPE-MEMORY ALLOYS, WITH COUPLING SYSTEM BASED ON SHAPE-MEMORY EFFECT
- SILVER MEDAL IWIS 2017 WARSAW (POLAND, 9-11 Oct.) & DIPLOMA offered to Marius MOGA, Augustin SEMENESCU, Mihnea Cosmin COSTOIU, Ileana Mariana MATEȘ, Cezar - Ionuț CĂLIN, Catalin Gheorghe AMZA, for SHORT FEMORAL STEM CERVICAL ENDOPROSTHESIS.
- INVENT ARENA AWARD (CZECH REPUBLIC - Chairman Jan KOBIELUSZ) at IWIS 2017 WARSAW (POLAND, 9-11 Oct.) & DIPLOMA offered to BATALU Nicolae-Dan, SEMENESCU Augustin, COSTOIU Mihnea Cosmin, ANTONIAC Vasile Iulian, DOICIN Cristian-Vasile, AMZA Cătălin Gheorghe, MATEȘ Ileana-Mariana, CHIVU Oana-Roxana, CODOREAN Ion-Bogdan, BARBU Cătălin-Alexandru, BĂDICĂ Petre, NEGOIȚĂ Olivia-Doina, for SEMICONSTRAINED TOTAL ELBOW PROSTHESIS MADE OF SHAPE-MEMORY ALLOYS, WITH COUPLING SYSTEM BASED ON SHAPE-MEMORY EFFECT
- CERTIFICATE OF APPRECIATION presented to Marius MOGA, Augustin SEMENESCU, Mihnea Cosmin COSTOIU, Ileana Mariana MATEȘ, Cezar - Ionuț CĂLIN, Catalin Gheorghe AMZA, Mark-Eward Pogărașteanu, An Alternative femoral stem- bone implantation technique using an innovative short femoral stem endoprosthesis, in recognition of the invaluable contribution to the International Biomaterials and Regenerative Medicine Seminar BIOREMED 2017 – Timisoara, 5-7 october 2017, Congress Chairs Prof.Dr. Meda-Lavinia Negruțiu & Prof.Dr.Iulian Antoniac.
- DIPLOMĂ DE EXCELENȚĂ ȘI MEDALIA DE AUR- Se acordă BATALU Nicolae-Dan,

SEMENESCU Augustin, COSTOIU Mihnea Cosmin, ANTONIAC Vasile Iulian, DOICIN Cristian-Vasile, AMZA Cătălin Gheorghe, MATEȘ Ileana-Mariana, CHIVU Oana-Roxana, CODOREAN Ion-Bogdan, BARBUCătălin-Alexandru, BĂDICĂ Petre, NEGOIȚĂ Olivia-Doina pentru PROTEZĂ TOTALĂ DE COT SEMICONSTRÂNSĂ, DIN ALIAJE CU MEMORIA FORMEI, CU SISTEM DE CUPLARE PE BAZĂ DE EFECT AL MEMORIEI FORMEI/SEMICONSTRAINED TOTAL ELBOW PROSTHESIS MADE OF SHAPE-MEMORY ALLOYS, WITH COUPLING SYSTEM BASED ON SHAPE-MEMORY EFFECT. SALONUL INTERNAȚIONAL AL CERCETĂRII ȘTIINȚIFICE, INOVĂRII ȘI INVENTICII PRO INVENT, Ediția XVII, 20-22 MARTIE 2019, CLUJ-NAPOCA

- CERTIFICATE OF AWARD HEREBY CERTIFIES THAT BATALU NICOLAE DAN, SEMENESCU AUGUSTIN, COSTOIU MIHNEA COSMIN, ANTONIAC VASILE IULIAN, DOICIN CRISTIAN VASILE, AMZA CATALIN GHEORGHE, MATEȘ ILEANA MARIANA, CHIVU OANA-ROXANA, CODOREAN ION BOGDAN, BARBU CĂTĂLIN-ALEXANDRU, BĂDICĂ PETRE, NEGOIȚĂ OLIVIA-DOINA, University POLITEHNICA of Bucharest HAS BEEN AWARDED GOLD MEDAL FOR THE INVENTION/ INNOVATION OF SEMICONSTRAINED TOTAL ELBOW PROTHESIS MADE OF SHAPE-MEMORY ALLOYS, WITH COUPLING SYSTEM BASED ON SHAPE MEMORY EFFECT, 4th International Invention Innovation Competition in Canada, iCAN 2019, TORONTO INTERNATIONAL SOCIETY OF INNOVATION & ADVANCED SKILLS (TISIAS) MOONSUK CHANG-Committee Chairman, BOB HUYBRECHTS, Co-Chairman of the Jury, August 24th, 2019, Toronto Canada
- ECOLE MAROCAINE DES SCIENCES DE L'INGENIEUR, HONORIS UNITED UNIVERSITIES, The Moroccan delegation of inventor and the EMSI Group, GOLD MEDAL, Granted to: BATALU Nicolae-Dan; SEMENESCU Augustin; COSTOIU Mihnea Cosmin; ANTONIAC Vasile Iulian; DOICIN Cristian-Vasile; AMZA Cătălin Gheorghe; MATEȘ Ileana Mariana; CHIVU Oana-Roxana; CODOREAN Ion Bogdan; BARBU Cătălin-Alexandru; BĂDICĂ Petre; NEGOIȚĂ Olivia-Doina SEMICONSTRAINED TOTAL ELBOW PROSTHESIS MADE OF SHAPE-MEMORY ALLOYS, WITH COUPLING SYSTEM BASED ON SHAPE-MEMORY EFFECT for the titled invention iCAN 2019, TORONTO CANADA, 24/08/2019, The chief of the Moroccan delegation of inventors.
- WARSAW INTERNATIONAL INVENTION SHOW, IWIS 2019 GOLD MEDAL FOR PROCESS AND INSTALLATION FOR ELECTROCHEMICALLY PRODUCING A COMPOSITE MATERIAL WITH METAL MATRIX (RO132816) Authors –M. ARGHIRESCU, M.C.COSTOIU, A. SEMENESCU, V. AVRAM, M. BURADA, N.G.MILITARU, C.G. AMZA, O.R. CHIVU , UNIVERSITY POLITEHNICA OF BUCHAREST, MATERIALS SCIENCE AND ENGINEERING, BIOMATERIALS AND MEDICAL DEVICES, President of Jury Danuta Kieljan, President of API&R Michal Szota, International WARSAW INVENTION SHOW IWIS 2019, 14-16 OCTOBER 2019 WARSAW
- WARSAW INTERNATIONAL INVENTION SHOW, IWIS 2019 GOLD MEDAL FOR METHOD AND INTELLIGENT SYSTEM BASED ON X RAYS FOR TRAINING SURGEONS IN INSERTING PEDICLE SCREWS (RO128174), Authors – D. POPESCU, C.G. AMZA ,D.C.LAPTOIU, G. AMZA , A.SEMENESCU, V. I. ANTONIAC, D. T. CICIC, UNIVERSITY POLITEHNICA OF BUCHAREST, MATERIALS SCIENCE AND ENGINEERING, BIOMATERIALS AND MEDICAL DEVICES, President of Jury Danuta Kieljan, President of API&R Michal Szota, International WARSAW INVENTION SHOW IWIS 2019, 14-16 OCTOBER 2019 WARSAW
- MyRIS, MALAYSIAN RESEARCH & INNOVATION SOCIETY, GOLD MEDAL AND MyRIS best invention award, is presented to M. ARGHIRESCU, M.C.COSTOIU, A. SEMENESCU, V. AVRAM, M. BURADA, N.G.MILITARU, C.G. AMZA, O.R. CHIVU for the invention of PROCESS AND INSTALLATION FOR ELECTROCHEMICALLY PRODUCING A COMPOSITE MATERIAL WITH METAL MATRIX (RO132816), to the success of International Warsaw Inventor Show (IWIS 2019), Warsaw Poland, 14-16 October 2019, Datuk Professor Emeritus Dr.Kamarudin Hussin President, Malaysian Research & Innovation Society
- CIIS GOLD MEDAL AND SPECIAL AWARD, This is awarded to –M. ARGHIRESCU, M.C.COSTOIU, A. SEMENESCU, V. AVRAM, M. BURADA, N.G.MILITARU, C.G. AMZA, O.R. CHIVU for PROCESS AND INSTALLATION FOR ELECTROCHEMICALLY PRODUCING A COMPOSITE MATERIAL WITH METAL MATRIX (RO132816), XIII International Warsaw Invention Show "IWIS" Warsaw, Poland, Chinese Innovation and Invention Society (Taiwan), WU. CHIH-YAO, Chairman of CIIS, 16 Oct 2019.
- CIIS GOLD MEDAL AND SPECIAL AWARD, This is awarded to D. POPESCU, C.G. AMZA ,D.C.LAPTOIU, G. AMZA , A.SEMENESCU, V. I. ANTONIAC, D. T. CICIC for METHOD AND INTELLIGENT SYSTEM BASED ON X RAYS FOR TRAINING SURGEONS IN INSERTING PEDICLE SCREWS (RO128174), XIII International Warsaw Invention Show "IWIS" Warsaw, Poland, Chinese Innovation and Invention Society (Taiwan), WU. CHIH-YAO, Chairman of CIIS, 16 Oct 2019.
- 44th INTERNATIONAL INVENTION SHOW, INVENTION AND PROTOTYPE SHOW AND

STUDENT BUSINESS PLAN COMPETITION. SILVER MEDAL and DIPLOMA for ARGHIRESCU MARIUS, COSTOIU MIHNEA COSMIN, SEMENESCU AUGUSTIN, AVRAM VASILE, BURADA MARIAN, MILITARU NICOLAE GHEORGHE, AMZA CATALIN GHEORGHE, CHIVU OANA ROXANA, University Politehnica of Bucharest, Romania, PROCESS AND INSTALLATION FOR ELECTROCHEMICALLY PRODUCING A COMPOSITE MATERIAL WITH METAL MATRIX, Zagreb, Croatia, November 13-16, 2019. President of the International Jury: Andrej Sacrinjar, dipl.ing, Croatian Inventors Network Ljiljana Pedisic mag.ing.cheming.

- 44th INTERNATIONAL INVENTION SHOW, INVENTION AND PROTOTYPE SHOW AND STUDENT BUSINESS PLAN COMPETITION. GOLD MEDAL and DIPLOMA for MOGA MARIUS, SEMENESCU AUGUSTIN, COSTOIU MIHNEA COSMIN, MATEȘ ILEANA MARIANA, CĂLIN CEZAR IONUȚ, AMZA CĂTĂLIN GHEORGHE, University Politehnica of Bucharest, ROMANIA, SHORT FEMORAL STEM CERVICAL ENDOPROTHESIS, Zagreb, Croatia, November 13-16, 2019. President of the International Jury: Andrej Sacrinjar, dipl.ing, Croatian Inventors Network Ljiljana Pedisic mag.ing.cheming.
- 44th INTERNATIONAL INVENTION SHOW, INVENTION AND PROTOTYPE SHOW AND STUDENT BUSINESS PLAN COMPETITION. GOLD MEDAL and DIPLOMA for POPESCU DIANA, AMZA CĂTĂLIN GHEORGHE, LĂPTOIU DAN CONSTANTIN, AMZA GHEORGHE, SEMENESCU AUGUSTIN, ANTONIAC VASILE IULIAN, CICIC DUMITRU TITI, University Politehnica of Bucharest, ROMANIA METHOD AND INTELLIGENT SYSTEM BASED ON X RAYS FOR TRAINING SURGEONS IN INSERTING PEDICLE SCREWS, Zagreb, Croatia, November 13-16, 2019. President of the International Jury: Andrej Sacrinjar, dipl.ing, Croatian Inventors Network Ljiljana Pedisic mag.ing.cheming
- TISIAS-TORONTO INTERNATIONAL SOCIETY OF INNOVATION AND ADVANCED SKILLS, SPECIAL HONOUR OF INVENTION is hereby presented to ARGHIRESCU MARIUS, COSTOIU MIHNEA COSMIN, SEMENESCU AUGUSTIN, AVRAM VASILE, BURADA MARIAN, MILITARU NICOLAE GHEORGHE, AMZA CATALIN GHEORGHE, CHIVU OANA ROXANA, for an outstanding exhibition of the invention entitled PROCESS AND INSTALLATION FOR ELECTROCHEMICALLY PRODUCING A COMPOSITE MATERIAL WITH METAL MATRIX, The 44th International Invention Show, Inova 2019, 13-16 November 2019 at Zagreb, Croatia, Moonsuk CHANG Chairman and Chief Exhibition Officer, TISIAS-Toronto, Canada. Bob HUYBRECHTS, RDT Co-Chairman of the Jury, iCan-Toronto, Canada.
- TISIAS-TORONTO INTERNATIONAL SOCIETY OF INNOVATION AND ADVANCED SKILLS, SPECIAL HONOUR OF INVENTION is hereby presented to MOGA MARIUS, SEMENESCU AUGUSTIN, COSTOIU MIHNEA COSMIN, MATEȘ ILEANA MARIANA, CĂLIN CEZAR IONUȚ, AMZA CĂTĂLIN GHEORGHE, University Politehnica of Bucharest, ROMANIA, for an outstanding exhibition of the invention entitled SHORT FEMORAL STEM CERVICAL ENDOPROTHESIS; The 44th International Invention Show, Inova 2019, 13-16 November 2019 at Zagreb, Croatia, Moonsuk CHANG Chairman and Chief Exhibition Officer, TISIAS-Toronto, Canada. Bob HUYBRECHTS, RDT Co-Chairman of the Jury, iCan-Toronto, Canada.
- TISIAS-TORONTO INTERNATIONAL SOCIETY OF INNOVATION AND ADVANCED SKILLS, SPECIAL HONOUR OF INVENTION is hereby presented to POPESCU DIANA, AMZA CĂTĂLIN GHEORGHE, LĂPTOIU DAN CONSTANTIN, AMZA GHEORGHE, SEMENESCU AUGUSTIN, ANTONIAC VASILE IULIAN, CICIC DUMITRU TITI, University Politehnica of Bucharest, Romania, for an outstanding exhibition of the invention entitled METHOD AND INTELLIGENT SYSTEM BASED ON X RAYS FOR TRAINING SURGEONS IN INSERTING PEDICLE SCREWS, The 44th International Invention Show, Inova 2019, 13-16 November 2019 at Zagreb, Croatia, Moonsuk CHANG Chairman and Chief Exhibition Officer, TISIAS-Toronto, Canada. Bob HUYBRECHTS, RDT Co-Chairman of the Jury, iCan-Toronto, Canada.
- DIPLOMA, AWARDED TO ARGHIRESCU MARIUS, COSTOIU MIHNEA COSMIN, SEMENESCU AUGUSTIN, AVRAM VASILE, BURADA MARIAN, MILITARU NICOLAE GHEORGHE, AMZA CATALIN GHEORGHE, CHIVU OANA ROXANA, University Politehnica of Bucharest, Romania, for the invention PROCESS AND INSTALLATION FOR ELECTROCHEMICALLY PRODUCING A COMPOSITE MATERIAL WITH METAL MATRIX on the occasion of INOVA-BUDI UZOR 2019, HALLER pro invention Foundation, Croatia
- NU SPECIAL AWARD IS PRESENTED BY NORTON UNIVERSITY TO ARGHIRESCU MARIUS, COSTOIU MIHNEA COSMIN, SEMENESCU AUGUSTIN, AVRAM VASILE, BURADA MARIAN, MILITARU NICOLAE GHEORGHE, AMZA CATALIN GHEORGHE, CHIVU OANA ROXANA, University Politehnica of Bucharest, Romania for the project entitled PROCESS AND INSTALLATION FOR ELECTROCHEMICALLY PRODUCING A COMPOSITE MATERIAL WITH METAL MATRIX, AT THE INTERNATIONAL INVENTION SHOW INOVA 2019, 44th

- International Invention Show, budi uzor, Zagreb, Croatia, November 12-17 2019, Zagreb Fair, Dr. UNG VANNTHOEUN, Vice Rector of Norton University.
- NU SPECIAL AWARD IS PRESENTED BY NORTON UNIVERSITY TO MOGA MARIUS, SEMENESCU AUGUSTIN, COSTOIU MIHNEA COSMIN, MATEȘ ILEANA MARIANA, CĂLIN CEZAR IONUȚ, AMZA CĂTĂLIN GHEORGHE, University Politehnica of Bucharest, ROMANIA, for the project entitled SHORT FEMORAL STEM CERVICAL ENDOPROTHESIS AT THE INTERNATIONAL INVENTION SHOW INOVA 2019, 44th International Invention Show, budi uzor, Zagreb, Croatia, November 12-17 2019, Zagreb Fair, Dr. UNG VANNTHOEUN, Vice Rector of Norton University.
 - NU SPECIAL AWARD IS PRESENTED BY NORTON UNIVERSITY TO POPESCU DIANA, AMZA CĂTĂLIN GHEORGHE, LĂPTOIU DAN CONSTANTIN, AMZA GHEORGHE, SEMENESCU AUGUSTIN, ANTONIAC VASILE IULIAN, CICIC DUMITRU TITI, University Politehnica of Bucharest, Romania, for the project entitled METHOD AND INTELLIGENT SYSTEM BASED ON X RAYS FOR TRAINING SURGEONS IN INSERTING PEDICLE SCREWS, AT THE INTERNATIONAL INVENTION SHOW INOVA 2019, 44th International Invention Show, budi uzor, Zagreb, Croatia, November 12-17 2019, Zagreb Fair, Dr. UNG VANNTHOEUN, Vice Rector of Norton University.
 - WIIPA SPECIAL AWARD Presented to: MOGA MARIUS, SEMENESCU AUGUSTIN, COSTOIU MIHNEA COSMIN, MATEȘ ILEANA MARIANA, CĂLIN CEZAR IONUȚ, AMZA CĂTĂLIN GHEORGHE, University Politehnica of Bucharest, ROMANIA, In recognition of: SHORT FEMORAL STEM CERVICAL ENDOPROTHESIS, exhibited at Croatia International Invention Show, Inova 13-16 Nov.2019, Zagreb Fair, Croatia, President; Manli Hsieh, World Invention Intellectual Property Associations
 - Highly Innovative Unique Foundation (HIUF) in the Kingdom of Saudi Arabia Presented Special Award to: MOGA MARIUS, SEMENESCU AUGUSTIN, COSTOIU MIHNEA COSMIN, MATEȘ ILEANA MARIANA, CĂLIN CEZAR IONUȚ, AMZA CĂTĂLIN GHEORGHE, University Politehnica of Bucharest, ROMANIA for: SHORT FEMORAL STEM CERVICAL ENDOPROTHESIS Awarded at The 44th International Invention Show (INOVA 2019) IN Zagreb Croatia. President of Hiuf Prof. Dr. Najia A. Alzanbagi
 - National Institute for Laser, Plasma and Radiation Physics Romania, GOLD MEDAL AND DIPLOMA FOR INVENTION, is awarded to: N.D. BATALU, A. SEMENESCU, M. COSTOIU, C. DOICIN, C. AMZA, I. MATEȘ, O. CHIVU, I. CODOREAN, C. BARBU, P. BĂDICĂ, O. NEGOIȚĂ, for TOTAL CONSTRICTED ELBOW PROTHESIS MADE OF SHAPE-MEMORY ALLOY WITH HINGE-LIKE FIXATION AND COUPLING SYSTEM BASED ON SHAPE MEMORY EFFECT, for achieving excellency in innovation through dedication and the consistent wish to push the border of what can be obtained through science and technology, Head of Laser Department, INFLPR Dr. Gabriel Socol, EIS INFOINVENT-2019 CHIȘINĂU.
 - INSTITUTUL NATIONAL DE CERCETARE-DEZVOLTARE PENTRU MAȘINI ȘI INSTALAȚII DESTINATE AGRICULTURII ȘI INDUSTRIEI ALIMENTARE –INMA București-, Bd. Ion Ionescu de la Brad, nr 6, Sector 1, AGEPI-AGENȚIA DE STAT PENTRU PROPRIETATEA INTELECTUALĂ A REPUBLICII MOLDOVA, INFOINVENT 2019 DIPLOMĂ DE EXCELENȚĂ, pentru: TOTAL SEMI-CONSTRICTED ELBOW PROSTHESIS MADE OF SHAPE-MEMORY ALLOY WITH HINGE-LIKE FIXATION AND COUPLING SYSTEM BASED ON SHAPE-MEMORY EFFECT - RO 131379, BATALU Nicolae-Dan, SEMENESCU Augustin, COSTOIU Mihnea Cosmin, ANTONIAC Vasile Iulian, DOICIN Cristian-Vasile, AMZA Cătălin Gheorghe, MATEȘ Ileana-Mariana, CHIVU Oana-Roxana, CODOREAN Ion-Bogdan, BARBU Cătălin-Alexandru, BĂDICĂ Petre, NEGOIȚĂ Olivia-Doina Director General Dr.ing. Nicolae-Valenti VLĂDUȚ.
 - Iustin Capră ASSOCIATION OF INVENTIONS, CERTIFICATE OF EXCELLENCE IS HEREBY AWARDED to: BATALU Nicolae-Dan, SEMENESCU Augustin, COSTOIU Mihnea Cosmin, ANTONIAC Vasile Iulian, DOICIN Cristian-Vasile, AMZA Cătălin Gheorghe, MATEȘ Ileana-Mariana, CHIVU Oana-Roxana, CODOREAN Ion-Bogdan, BARBU Cătălin-Alexandru, BĂDICĂ Petre, NEGOIȚĂ Olivia-Doina for: TOTAL SEMI-CONSTRICTED ELBOW PROSTHESIS MADE OF SHAPE-MEMORY ALLOY WITH HINGE-LIKE FIXATION AND COUPLING SYSTEM BASED ON SHAPE-MEMORY EFFECT - RO 131379, President: Marian VELCEA, PH.D.
 - University of AGRONOMIC SCIENCES AND VETERINARY MEDICINE OF BUCHAREST, EXCELLENCE AWARD AND GOLD MEDAL. Is awarded to: BATALU Nicolae-Dan, SEMENESCU Augustin, COSTOIU Mihnea Cosmin, ANTONIAC Vasile Iulian, DOICIN Cristian-Vasile, AMZA Cătălin Gheorghe, MATEȘ Ileana-Mariana, CHIVU Oana-Roxana, CODOREAN Ion-Bogdan, BARBU Cătălin-Alexandru, BĂDICĂ Petre, NEGOIȚĂ Olivia-Doina for TOTAL SEMI-CONSTRICTED ELBOW PROSTHESIS MADE OF SHAPE-MEMORY ALLOY WITH HINGE-LIKE FIXATION AND COUPLING SYSTEM BASED ON SHAPE-MEMORY EFFECT - RO 131379

- Universitatea Tehnică a Moldovei, MEDALIA DE AUR decernată: TOTAL SEMI-CONSTRICTED ELBOW PROSTHESIS MADE OF SHAPE-MEMORY ALLOY WITH HINGE-LIKE FIXATION AND COUPLING SYSTEM BASED ON SHAPE-MEMORY EFFECT - RO 131379 pentru: BATALU Nicolae-Dan, SEMENESCU Augustin, COSTOIU Mihnea Cosmin, ANTONIAC Vasile Iulian, DOICIN Cristian-Vasile, AMZA Cătălin Gheorghe, MATEȘ Ileana-Mariana, CHIVU Oana-Roxana, CODOREAN Ion-Bogdan, BARBU Cătălin-Alexandru, BĂDICĂ Petre, NEGOIȚĂ Olivia-Doina în cadrul Expoziției Internaționale Specializate INFOINVENT 20-23 noiembrie 2019, Chișinău, Prof.univ.dr.hab. Viorel Bostan: Rector Universitatea Tehnică a Moldovei.
- EXPOZIȚIA INTERNAȚIONALĂ SPECIALIZATĂ INFOINVENT Ediția XVI-a DIPLOMĂ MEDALIA DE AUR se acordă BATALU Nicolae-Dan, SEMENESCU Augustin, COSTOIU Mihnea Cosmin, ANTONIAC Vasile Iulian, DOICIN Cristian-Vasile, AMZA Cătălin Gheorghe, MATEȘ Ileana-Mariana, CHIVU Oana-Roxana, CODOREAN Ion-Bogdan, BARBU Cătălin-Alexandru, BĂDICĂ Petre, NEGOIȚĂ Olivia-Doina pentru TOTAL SEMI-CONSTRICTED ELBOW PROSTHESIS MADE OF SHAPE-MEMORY ALLOY WITH HINGE-LIKE FIXATION AND COUPLING SYSTEM BASED ON SHAPE-MEMORY EFFECT - RO 131379, 20-23 noiembrie 2019, Republica Moldova Chișinău.
- KUIA-Special Award, award to: BATALU Nicolae-Dan, SEMENESCU Augustin, COSTOIU Mihnea Cosmin, ANTONIAC Vasile Iulian, DOICIN Cristian-Vasile, AMZA Cătălin Gheorghe, MATEȘ Ileana-Mariana, CHIVU Oana-Roxana, CODOREAN Ion-Bogdan, BARBU Cătălin-Alexandru, BĂDICĂ Petre, NEGOIȚĂ Olivia-Doina in honor of the highest standard of excellence presented the valuable invention entitled: TOTAL SEMI-CONSTRICTED ELBOW PROSTHESIS MADE OF SHAPE-MEMORY ALLOY WITH HINGE-LIKE FIXATION AND COUPLING SYSTEM BASED ON SHAPE-MEMORY EFFECT - RO 131379 has participated in: International Specialized Exhibition INFOINVENT a Forum on Intellectual property, Creativity and Innovation, 20-23 November 2019, Chișinău, Republic of Moldova, Korea University Invention Association, President: Lee Ju Hyung
- REPUBLICA PORTUGUESA , ASSOCIATION OF EUROPEAN INVENTORS, APPICIS, INVENTARIUM SCIENCE, CERTIFICATE, IT CERTIFIES THE PRESENT, TO CONFIRM OFFICIAL INTERNATIONAL MERIT CERTIFICATE FOR CONTRIBUTION TO INNOVATION AND BATALU Nicolae-Dan, SEMENESCU Augustin, COSTOIU Mihnea Cosmin, ANTONIAC Vasile Iulian, DOICIN Cristian-Vasile, AMZA Cătălin Gheorghe, MATEȘ Ileana-Mariana, CHIVU Oana-Roxana, CODOREAN Ion-Bogdan, BARBU Cătălin-Alexandru, BĂDICĂ Petre, NEGOIȚĂ Olivia-Doina FOR THE BRILLIANT INVENTION PRESENTED: TOTAL SEMI-CONSTRICTED ELBOW PROSTHESIS MADE OF SHAPE-MEMORY ALLOY WITH HINGE-LIKE FIXATION AND COUPLING SYSTEM BASED ON SHAPE-MEMORY EFFECT - RO 131379 FROM: ROMANIA FOR ALL THE ABNEGATED SHARE COOPERATION AND SPARKLING OPEN MIND, PROMOTING INNOVATION AND CREATIVITY IN THE INVENTIVE SIRT OF PROGRESS, November 22, 2019, in Chisinau, during INFOINVENT-MOLDOVA INTERNATIONAL TRADE FAIR, 2019, It was conferred the present official Distinction, President of Inventarium-Science-Serbia: Djordje Petrusic, President of Global Inventarium Science: Fernando Lopes, President of Inventarium-Science-Bosnia Banja Luka
- UNIVERSITATEA DE STAT DE MEDICINĂ ȘI FARMACIE NICOLAE TESTEMIȚANU DIN REPUBLICA MOLDOVA, DIPLOMĂ DE EXCELENȚĂ CU MEDALIE, Se acordă: BATALU Nicolae-Dan, SEMENESCU Augustin, COSTOIU Mihnea Cosmin, ANTONIAC Vasile Iulian, DOICIN Cristian-Vasile, AMZA Cătălin Gheorghe, MATEȘ Ileana-Mariana, CHIVU Oana-Roxana, CODOREAN Ion-Bogdan, BARBU Cătălin-Alexandru, BĂDICĂ Petre, NEGOIȚĂ Olivia-Doina pentru: TOTAL SEMI-CONSTRICTED ELBOW PROSTHESIS MADE OF SHAPE-MEMORY ALLOY WITH HINGE-LIKE FIXATION AND COUPLING SYSTEM BASED ON SHAPE-MEMORY EFFECT - RO 131379 EIS INFOINVENT 2019, 20-23 Noiembrie 2019, Chișinău, Republica Moldova, Rector: profesor universitar, dr.hab.șt.med Emil Ceban, prorector pentru activitate de cercetare: profesor
- PRO INVENT-CLUJ-NAPOCA, DIPLOMĂ DE EXCELENȚĂ ȘI MEDALIA PROINVENT, Se acordă: BATALU Nicolae-Dan, SEMENESCU Augustin, COSTOIU Mihnea Cosmin, ANTONIAC Vasile Iulian, DOICIN Cristian-Vasile, AMZA Cătălin Gheorghe, MATEȘ Ileana-Mariana, CHIVU Oana-Roxana, CODOREAN Ion-Bogdan, BARBU Cătălin-Alexandru, BĂDICĂ Petre, NEGOIȚĂ Olivia-Doina, De la: Universitatea Politehnica București, Pentru: TOTAL SEMI-CONSTRICTED ELBOW PROSTHESIS MADE OF SHAPE-MEMORY ALLOY WITH HINGE-LIKE FIXATION AND COUPLING SYSTEM BASED ON SHAPE-MEMORY EFFECT - RO 131379,, INFOINVENT EXPOZIȚIA Internațională Specializată, Ediția a XVI-a, 20-23 Noiembrie 2019
- ICECHIM- The National Institute for Research & Development in Chemistry and Petrochemistry, ICECHIM-Innovation Award IS AWARDED TO: BATALU Nicolae-Dan, SEMENESCU Augustin, COSTOIU Mihnea Cosmin, ANTONIAC Vasile Iulian, DOICIN Cristian-Vasile, AMZA Cătălin

- Gheorghe, MATEȘ Ileana-Mariana, CHIVU Oana-Roxana, CODOREAN Ion-Bogdan, BARBU Cătălin-Alexandru, BĂDICĂ Petre, NEGOIȚĂ Olivia-Doina, FOR: TOTAL SEMI-CONSTRICTED ELBOW PROSTHESIS MADE OF SHAPE-MEMORY ALLOY WITH HINGE-LIKE FIXATION AND COUPLING SYSTEM BASED ON SHAPE-MEMORY EFFECT - RO 131379 , The International Specialized Exhibition Infoinvent 2019, Chișinău, Republic of Moldova, General Manager: Dr.biochem. Mihaela DONI, 23.11.2019
- XVI th Edition INFOINVENT-International Specialized The Exhibition November 20-23, 2019, Chisinau Moldova, Banat's University of Agricultural Sciences and Veterinary Medicine, "King Michael I of Romania" from Timisoara, EXCELLENCE DIPLOMA, for work: TOTAL SEMI-CONSTRICTED ELBOW PROSTHESIS MADE OF SHAPE-MEMORY ALLOY WITH HINGE-LIKE FIXATION AND COUPLING EFFECT - RO 131379 , Authors: BATALU Nicolae-Dan, SEMENESCU Augustin, COSTOIU Mihnea Cosmin, ANTONIAC Vasile Iulian, DOICIN Cristian-Vasile, AMZA Cătălin Gheorghe, MATEȘ Ileana-Mariana, CHIVU Oana-Roxana, CODOREAN Ion-Bogdan, BARBU Cătălin-Alexandru, BĂDICĂ Petre, NEGOIȚĂ Olivia-Doina, Rector: Prof.dr.ing. COSMIN ALIN POPESCU, Vicerector for research-innovation Prof.dr. Isidora RADULOV
 - Certificate of award, this is to certify Cristina Anca Secara, Ionut Dumitrache, Bogdan Patrinishi, Adrian Claudiu Popa, Aurelian Zapciu, Catalin Gheorghe Amza, Diana Popescu, Augustin Semenescu, University Politehnica Bucharest, Romania, has been awarded GOLD MEDAL Self injection Syringe for the administration of the antidotes with an innovative active substance release system on the occasion of 2021 Kaoshiung International Invention & Design Expo, 2-4 December 2021, Kaoshiung Taiwan, President of WIIPA Mnali Hsieh, President of International Jury Neven Markovic.
 - Inova Croatia, Zagreb 2021, GOLD, Cristina Anca Secara, Ionut Dumitrache, Bogdan Patrinishi, Adrian Claudiu Popa, Aurelian Zapciu, Catalin Gheorghe Amza, Diana Popescu, Augustin Semenescu, University Politehnica Bucharest, Romania, Self injection Syringe for the administration of the antidotes with an innovative active substance release system, Director: Neven Markovic, President: Ljiljana Pedisic.
 - Salonul International de Inventii si Inovatii Traian Vuia Timisoara, se acorda Medalia de aur pentru inventia Surub auto-tarodant canulat bioresorbabil pentru fixare ligamentara, autori Antoniac Vasile Iulian, Laptoiu Dan Constantin, Popescu Diana, Semenescu Augustin, Amza Catalin Gheorghe, Institutia Universitatea Politehnica Bucuresti, Presedinte salon: Andrei SON, Presedinte salon Remi Rdulescu, Data 14 octombrie 2021.
 - Salonul International de Inventii si Inovatii Traian Vuia Timisoara, se acorda Medalia de aur pentru inventia Seringa autoinjectoare cu sistem inovativ de eliberare a substantelor active, pentru administrarea antidoturilor, autori Cristina Anca Secara, Ionut Dumitrache, Bogdan Patrinishi, Adrian Claudiu Popa, Aurelia Zapciu, Catalin Gheorghe Amza, Diana Popescu, Augustin Semenescu, Institutia Universitatea Politehnica Bucuresti, Presedinte salon: Andrei SON, Presedinte salon Remi Rdulescu, Data 14 octombrie 2021.
 - Salonul International de Inventii si Inovatii Traian Vuia Timisoara, se acorda Medalia de aur pentru inventia Endoproteza cervicala femurala scurta, autori Marius Moga, Mihnea Cosmin Costoiu, Ileana Mariana Mates, Catalin Gheorghe Amza, Cezar Ionut Calin, Augustin Semenescu, Institutia Universitatea Politehnica Bucuresti, Presedinte salon: Andrei SON, Presedinte salon Remi Rdulescu, Data 14 octombrie 2021.
 - International Invention Show-Inova Croatia, Zagreb 2021, GOLD, Cristina Anca Secara, Ionut Dumitrache, Bogdan Patrinishi, Adrian Claudiu Popa, Aurelian Zapciu, Catalin Gheorghe Amza, Diana Popescu, Augustin Semenescu, University Politehnica Bucharest, Romania, Self injection Syringe for the administration of the antidotes with an innovative active substance release system.
 - ICECHIM-The National Institute for Research and Development in Chemistry and Petrochemistry ICECHIM, Excellence Award and Gold Medal, is awarded to Marius MOGA, Augustin SEMENESCU, Mihnea Cosmin COSTOIU, Ileana Mariana MATES, Cezar Ionut CALIN, Catalin Gheorghe AMZA, for SHORT FEMORAL STEM CERVICAL ENDOPROTHESIS, 13th edition of EUROINVENT, European Exhibition of Creativity and Innovation, 20-22 May 2021, General Manager Dr.biochem. Mihaela DONI
 - REPUBLICA PORTUGUESA, CERTIFICATE, IT CERTIFIES THE PRESENT, TO CONFIRM OFFICIAL INTERNATIONAL MERIT CERTIFICATE, FOR CONTRIBUTION TO INNOVATION AND EXCELENT COOPERATION, IT CERTIFIES THAT IS GRANTED TO Marius MOGA, Augustin SEMENESCU, Mihnea Cosmin COSTOIU, Ileana Mariana MATES, Cezar Ionut CALIN, Catalin Gheorghe AMZA, for SHORT FEMORAL STEM CERVICAL ENDOPROTHESIS, FROM UNIVERSITY POLITEHNICA OF BUCHAREST, for all abnegated share cooperation and sparkling open mind , Delivered in the 7th edition of ICIR EUROINVENT, hold from 20 to 21 of May 2021, by exceptional conference, Vice-President: Manuel Maria Potes de Cordovil, President: Fernando Jorge Lopes.
 - ATIP, SPECIAL PRIZE is hereby awarded to Marius MOGA, Augustin SEMENESCU, Mihnea

Cosmin COSTOIU, Ileana Mariana MATES, Cezar Ionut CALIN, Catalin Gheorghe AMZA, for SHORT FEMORAL STEM CERVICAL ENDOPROTHESIS, awarded by Association of Thai Innovation and Invention Promotion Thailand, in EUROINVENT, Dr. Unchalee Sanguanpong President

- WIIPA SPECIAL AWARD, Presented to Marius MOGA, Augustin SEMENESCU, Mihnea Cosmin COSTOIU, Ileana Mariana MATES, Cezar Ionut CALIN, Catalin Gheorghe AMZA in recognition of SHORT FEMORAL STEM CERVICAL ENDOPROTHESIS exhibited at European Exhibition of Creativity and Innovation, EUROINVENT, May 2021, Palace of Culture, Romania, President: Manli Hsieh.
- TISIAS-SPECIAL HONOUR OF INVENTION is hereby presented to Marius MOGA, Augustin SEMENESCU, Mihnea Cosmin COSTOIU, Ileana Mariana MATES, Cezar Ionut CALIN, Catalin Gheorghe AMZA in recognition of SHORT FEMORAL STEM CERVICAL ENDOPROTHESIS The 13th European Exhibition of Creativity and Innovation, EUROINVENT 2021, held online during 20-22 May 2021 at the Palace of Culture Iasi, Romania, Moonsuk CHANG Chairman and Chief Exhibition Officer TISIAS-Toronto Canada, Bob HUYBRECHTS, RDT Co-Chairman of the Jury.
- DIPLOMA OF GOLD MEDAL is awarded to Marius MOGA, Augustin SEMENESCU, Mihnea Cosmin COSTOIU, Ileana Mariana MATES, Cezar Ionut CALIN, Catalin Gheorghe AMZA in recognition of SHORT FEMORAL STEM CERVICAL ENDOPROTHESIS President of International Jury Prof.Dr.Ing.Mohd Mustafa Al Bakri ABDULLAH, President of Exhibition Prof.Dr.Ion SANDU
- Outstanding Paper Award, International Conference – ISIEA2022
- GOLD International Exhibition INVENTCOR 3rd edition, 15-17.12.2022, Deva, Romania, AWARDED FOR SELF-INJECTION SYRINGE FOR THE ADMINISTRATION OF ANTIDOTES WITH AN INNOVATIVE ACTIVE SUBSTANCE RELEASE SYSTEM RO 00232 /2021 - Cristina Anca SECARĂ, Ionuț DUMITRACHE, Bogdan PĂTRINICHI, Adrian Claudiu POPA, Aurelian ZAPCIU, Cătălin Gheorghe AMZA, Diana POPESCU, Augustin SEMENESCU - University POLITEHNICA Bucharest, Salon president, Associate Professor Corneliu BIRTOK BĂNEASĂ, Jury president, Professor Aurel Mihail ȚÎȚU
- Asociatia "JUSTIN CAPRA" - DIPLOMA DE EXCELENȚĂ SE ACORDA. Cristina Anca SECARĂ, Ionuț DUMITRACHE, Bogdan PĂTRINICHI, Adrian Claudiu POPA, Aurelian ZAPCIU, Cătălin Gheorghe AMZA, Diana POPESCU, Augustin SEMENESCU, PENTRU SELF-INJECTION SYRINGE FOR THE ADMINISTRATION OF ANTIDOTES WITH AN INNOVATIVE ACTIVE SUBSTANCE RELEASE SYSTEM RO 00232 /2021 CU OCAZIA INVENTCOR 2022, Presedinte Dr. Ing. Marian VELCEA
- Asociatia "CORNELIU GROUP" CERCETARE-INOVAR - DIPLOMA DE EXCELENȚĂ - Se acorda Cristina Anca SECARĂ, Ionuț DUMITRACHE, Bogdan PĂTRINICHI, Adrian Claudiu POPA, Aurelian ZAPCIU, Cătălin Gheorghe AMZA, Diana POPESCU, Augustin SEMENESCU pentru SELF-INJECTION SYRINGE FOR THE ADMINISTRATION OF ANTIDOTES WITH AN INNOVATIVE ACTIVE SUBSTANCE RELEASE SYSTEM RO 00232 /2021.INVENTCOR POWER OF CREATIVE MIND, Deva, 15-17.12.2022,Președinte Corneliu BIRTOK-BĂNEASĂ, www.corneliugroup.ro
- Universitatea Politehnica Timisoara SPECIAL AWARD For SELF-INJECTION SYRINGE FOR THE ADMINISTRATION OF ANTIDOTES WITH AN INNOVATIVE ACTIVE SUBSTANCE RELEASE SYSTEM RO 00232 /2021 to: Cristina Anca SECARĂ, Ionuț DUMITRACHE, Bogdan PĂTRINICHI, Adrian Claudiu POPA, Aurelian ZAPCIU, Cătălin Gheorghe AMZA, Diana POPESCU, Augustin SEMENESCU, On the occasion of The International Exhibition of INVENTCOR, III Edition, Deva – ROMANIA, 15-17 December 2022, Deva December 2022, Rector Assoc. Prof. Eng. Florin DRAGAN, Ph.D.
- TISIAS - Toronto International Society of Innovation and Advanced Skills -- International Invention Innovation Competition in Canada, iCan - TORONTO CANADA, SPECIAL HONOUR OF INVENTION is hereby presented to Cristina Anca SECARĂ, Ionuț DUMITRACHE, Bogdan PĂTRINICHI, Adrian Claudiu POPA, Aurelian ZAPCIU, Cătălin Gheorghe AMZA, Diana POPESCU, Augustin SEMENESCU for outstanding exhibition and presentation of invention entitled SELF-INJECTION SYRINGE FOR THE ADMINISTRATION OF ANTIDOTES WITH AN INNOVATIVE ACTIVE SUBSTANCE RELEASE SYSTEM RO 00232 /2021, The 3-rd annual International Exhibition INVENTOR 2022, 15-17 December 2022 in Deva, Romania, Moonsuk Chang – Chairman & Chief Exhibition Officer TISIAS- Toronto, Canada, Bob Huybrechts – Co-chairman of the jury iCan - TORONTO CANADA.

ANNEXES

- List of publications
- Diplome

A N E X A 4 . 1

Nume Prenume: AMZA Catalin Gheorghe

Gradul didactic: Profesor universitar

Instituția unde este titular: Universitatea POLITEHNICA București

Facultatea: Inginerie Industrială și Robotica

Departamentul: Ingineria Calității și Tehnologii Industriale

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

A1. INTELLIGENT X-RAY IMAGING INSPECTION SYSTEM FOR THE FOOD INDUSTRY (Sistem inteligent de inspecție cu raze X bazat pe procesare de imagini pentru industria alimentară), De Montfort University, Computer Science and Engineering Faculty, United Kingdom, 2002

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

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 CNCSIS cu codul 54, ISBN 978-606-23-0398-3, 321 pagini, 2015

Ca3. Amza, C.G., Nitoi D.F., Anania, F., D., *Fabricare asistată de calculator*, Editura Printech, Ed. recunoscuta CNCSIS 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 și imagini*, Editura Printech, Ed. recunoscuta CNCSIS 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 și rețele*, Editura Printech, Ed. recunoscuta CNCSIS 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 și validare date*, Editura Printech, Ed. recunoscuta CNCSIS cu codul 54, București, ISBN 978-606-23-0288-7, 420 pagini, 2014

- Ca7. Amza, C.G., Baci, 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

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

- Cb1. Amza Cătălin Gheorghe, Björnsdóttir Auðbjörg, Borg Jonathan, Codău Cristina, Eyþórsdóttir Arnheiður, Mamo James, Mureșan Monica, Negrea Paul, Spânu Paulina, *Introduction to Industry 4.0 and Digital Manufacturing*, Editura Printech, Ed. recunoscuta CNCSIS cu codul 54, ISBN 978-606-23-1024-0, Bucuresti, 2019
- Amza Cătălin Gheorghe, Björnsdóttir Auðbjörg, Borg Jonathan, Codău Cristina, Eyþórsdóttir Arnheiður, Mamo James, Mureșan Monica, Negrea Paul, Spânu Paulina, *Introducere în Industria 4.0 și producția digitală*, Editura Printech, Ed. recunoscuta CNCSIS cu codul 54, ISBN 978-606-23-1024-0, Bucuresti, 2019
- Cb2. Chicioreanu, T.D., Popescu D., Amza C.G., *Realitate augmentata si printare 3D*, Editura Printech, Ed. recunoscuta CNCSIS cu codul 54, ISBN 978-606-23-0650-2, Bucuresti, 2016
- Cb3. Chicioreanu, T.D., Popescu D., Amza C.G., *Augmented reality and 3D printing for technical entrepreneurship*, Editura Printech, Ed. recunoscuta CNCSIS cu codul 54, ISBN 978-606-23-0651-9, Bucuresti, 2016, 206 pagini
- Cb4. Amza, C.G., Borg, J., Chicioreanu, T., Danielene, R., Francalanza, E., Muresan M., Negrea P.A. – *Papildytoji realybė inovatyviems verslininkams*, 2015, ITI
- Cb5. 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 CNCSIS cu codul 54, ISBN 978-606-23-0500-0, 197 pagini
- Cb6. 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 CNCSIS cu codul 54, ISBN 978-606-23-0501-7, 191 pagini
- Cb7. Amza, C.G., Cicic, D.T., Anania, F.D., Popescu, D., *Metode de evaluare a calitatii produselor industriale*, Editura Printech, Ed. recunoscuta CNCSIS cod 54, Bucuresti, 2013, 273 pg, ISBN 978-606-521-986-1
- Cb8. Amza, C.G., Balaceanu, M. A., *@Internet*, Editura Printech, Ed. recunoscuta CNCSIS cu codul 54, ISBN 978-606-521-529-0, 273 pagini, 2010
- Cb9. Amza, C.G., Radu, C., Tasca, G., *Proiectare si manufacturare asistata de calculator (CAD-CAM). Aplicatii AutoCAD si SolidWorks*, Editura Printech, Ed. recunoscuta CNCSIS cu codul 54, ISBN 978-606-521-571-9, 504 pagini, 2010

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

Edituri recunoscute cu ISBN

B18. Amza, C.G., Tasca, G.D., Petriceanu C., *Baze de date*, Editura Printech 2011, Ed. recunoscuta CNCIS cu codul 54, ISBN 978-606-521-757-7, 178 pagini

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

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

- Ris1. Amza, CG (Amza, Catalin Gheorghe)[1] ; Zapciu, A (Zapciu, Aurelian)[1] ; Constantin, G (Constantin, George)[1] ; Baci, F (Baci, Florin)[1] ; Vasile, MI (Vasile, Mihai Ion)[1], Enhancing Mechanical Properties of Polymer 3D Printed Parts, POLYMERS, Volume: 13, Issue: 4, Article Number: 562, DOI: 10.3390/polym13040562, Published: FEB 2021, Document Type: Article, WOS:000624260800001, Revista Q1, factor impact 2019 – 3.426, pe 5 ani 3.636 (1 domeniu Polymer science in Q1)
- Ris2. Amza, CG , Zapciu, A, Eythorsdottir, A, Bjornsdottir, A, Borg, J, Embedding Ultra-High-Molecular-Weight Polyethylene Fibers in 3D-Printed Polylactic Acid (PLA) Parts, POLYMERS, Volume: 11, Issue: 11, Article Number: 1825, DOI: 10.3390/polym11111825, Published: NOV 2019, Document Type: Article, Accession Number: WOS:000503279200098, PubMed ID: 31698845, eISSN: 2073-4360, 2019, Revista Q1, factor impact 2018 – 3.164, pe 5 ani 3.542 (1 domeniu Polymer science in Q1)
- Ris3. 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)
- Ris4. 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
- Ris5. 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
- Ris6. 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
- Ris7. 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

- Ris8. 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
- Ris9. 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
- Ris10. 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
- Ris11. 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
- Ris12. 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
- Ris13. 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
- Ris14. 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
- Ris15. 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
- Ris16. 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
- Ris17. 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)

- Ris18. 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
- Ris19. 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
- Ris20. 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
- Ris21. 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)
- Ris22. 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
- Ris23. 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

Vis- Volumele unor manifestări științifice internaționale recunoscute, organizate în țară și străinătate, indexate ISI Thomson

Reuters sau indexate in alte Baze de Date Internationale - BDI specifice domeniului, care fac un proces de selectie a publicatiilor pe baza unor criterii de performanta

- Vis1. Amza, C; Zapciu, A; Popescu, D, 3D-Printed shoe last for bespoke shoe manufacturing, 9TH INTERNATIONAL CONFERENCE ON MANUFACTURING SCIENCE AND EDUCATION (MSE 2019 - Sibiu, ROMANIA, JUN 05-07, 2019): TRENDS IN NEW INDUSTRIAL REVOLUTION, Edited by:Bondrea, I; Cofaru, NF; Inta, M, Book Series: MATEC Web of Conferences, Volume: 290, Article Number: 04001, DOI: 10.1051/matecconf/201929004001, Published: 2019, WOS:000569367700051
- Vis2. Cătălin G. Amza, Aurelian Zapciu, Arnheiður Eypórsdóttir, Auðbjörg Björnsdóttir, and Jonathan Borg, Mechanical properties of 3D printed composites with ABS/ASA substrate and glass fiber inserts, MATEC Web of Conferences 290, 04002 (201), <https://doi.org/10.1051/matecconf/201929004002>, MSE2019, WOS: 000569367700052
- Vis3. 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

- Vis4. 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 6th International Conference on Modern Technologies in Industrial Engineering (ModTech), Location: Constanta Maritime Univ, Constanta, ROMANIA, Date: JUN 13-16, 2018
- Vis5. 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
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