

LIST
scientific works in the field of disciplines from the didactic post of
2009 (01.03.2009) - present

Name and surname: SĂBĂILĂ LAVINIA IOANA (married CULDA LAVINIA IOANA)

Doctoral thesis. "Manipulation and robotic storage of oxygen and methane gas cylinders", Industrial Engineering field, Mechatronics department, coordinator: Prof. Ph.D. Eng. Francisc Kovacs, November 2005, confirmed in January 2006, Politehnica Timișoara

1. Didactic and professional activity (A1)

1.1. Books/handbooks/monographs/chapters in specialized books

1.1.1 Books/manuals/monographs/specialist chapters as an author

1.1.1.1. international

1.1.1.2. national (recognized publishers)

- **1.1.1.2.1.[2021]** CULDA LAVINIA IOANA, Rapid prototyping technologies, Gutenberg Univers Publishing House, Arad, 2021, page 152, ISBN 978-606-675-310-4
- **1.1.1.2.2.[2024]** CULDA LAVINIA IOANA, Modeling methods of flexible manufacturing systems, Gutenberg Univers Publishing House, ISBN 978-606-675-409-5, page 332, Arad, 2024

1.1.2 Cărți ca editor

1.1.2.1 internaționale

1.1.2.2 naționale

1.2. Other didactic materials – including in electronic format (for electronic format - equivalent A4 format text without figures with a minimum of 3200 characters including spaces)

1.2.1. Course materials/ Guidance

- **1.2.1.1.[2006]** Mortoiu Doina, SĂBĂILĂ LAVINIA, Babanatsas Theoharis, Gal Lucian, AutoCad 2006, Partea I – Modelarea 2D, Îndrumător pentru uzul studenților, 134 pagini, Editura Universității “Aurel Vlaicu”, Arad, **2006**, ISBN (10) 973 – 752-087-4, ISBN (13) 978-973-752-087-6
- **1.2.1.2.[2009]** SĂBĂILĂ LAVINIA IOANA, Autocad: îndrumar de laborator, 228 pagini, Editura Universității “Aurel Vlaicu”, Arad, **2009**, ISBN 978-973-752-429-4

- 1.2.1.3.[2010] SĂBĂILĂ LAVINIA IOANA, Ergonomie: note de seminar, 132 pagini, Editura Universității “Aurel Vlaicu”, Arad, 2010, ISBN 978-973-752-470-6
- 1.2.1.4.[2018] CULDA LAVINIA IOANA, Programarea mașinilor unelte și a roboților industriali Note de curs, Editura Universității "Aurel Vlaicu", 2018, pag 104, ISBN 978-973-752-805-6
- 1.2.1.5.[2023] CULDA LAVINIA IOANA, ELENA MUNCUȚ, ATILA. GERŐCS, Noțiuni introductive în Roboți industriali, Editura Gutenberg Univers, Arad, 2023, pag.322, ISBN 978-606-675-365-4
- 1.2.1.6.[2023] CULDA LAVINIA IOANA, Tehnologii de prototipare rapidă- de la desen la reper - Note de curs și de laborator , Editura Gutenberg Univers, Arad, 2023, pag.228, ISBN 978-606-675-366-1
- 1.2.1.7.[2024] CULDA LAVINIA IOANA, Tehnologii de presare la rece. Îndrumar proiectare, Editura Gutenberg Univers, Arad, 2024, pag.132, ISBN 978-606-675-399-9

1.3. Coordination of study programs, organization and coordination of continuous training programs

Director/Responsible

1.4. Development of new subjects (it is scored only once in case of their multiplication in different study programs)

- 1.4.1.CIEF4O08 Technical drawing and infographics 4 (2016-2017), Road vehicles, Bachelor's degree, year 2
- 1.4.2.CIDF4O16 Technical drawing and infographics 4 (2016-2017), Welding engineering, Bachelor's degree, year 2
- 1.4.3.CIGD7O04 Programming robots and machine tools (2016-2017), Automation and applied informatics, Bachelor, year 4
- 1.4.4.CIEF4O08 Technical drawing and infographics4 (2017-2018), Welding engineering, Bachelor, year 2
- 1.4.5.CIGF7O01 Computer-aided graphics 3 (2018-2019), Automation and applied informatics, Bachelor, year 4
- 1.4.6.CIAS6A19 Rapid Prototyping Technologies (2020-2021), Machine Building Technology, Bachelor, Year 3, Improved to date
- 1.4.7.CIDS8O14 Mechanization, automation and robotization of welding processes (2015-2016), Welding Engineering, Bachelor, year 4

2. Research activity (A2)

2.1 Articles indexed in ISI Thomson Reuters journals and in the volumes of scientific events indexed by ISI Thomson Reuters, visible in the database

2.1.1. ISI magazines

- [2022] **CULDA LAVINIA IOANA**, PORTABLE DEVICES IN THE FIGHT OF SARSCOV2, Technical University of Cluj-Napoca, Acta Technica Napocensis Series: Applied Mathematics, Mechanics, and Engineering Vol. 65, Issue Special I, February, pg 81-86, pg6, 2022,

<https://atna-mam.utcluj.ro/index.php/Acta/article/view/1738>,

<https://www.webofscience.com/wos/woscc/full-record/WOS:000773188500009>

Informații din jurnal

SERIA ACTA TECHNICA NAPOCENSIS-MATEMATICĂ APLICATĂ MECANICĂ ȘI INGINERIE		0,3
ISSN	1221-5872	Journal Impact Factor™ (2022)
Editorul actual	UNIV TEHNIC CLUJ-NAPOCA, FAC DEPARTAMENT DE CONSTRUCȚII DE MAȘINI SISTEME ENG, B-DUL MUNCH NR 103 105, RM C01, CLUJ-NAPOCA CP 400 641, ROMANIA	0,06
Factorul de impact al jurnalului	Journal Citation Reports™	Journal Citation Indicator™ (2022)
Domenii de cercetare	Mecanica	
Categorii Web of Science	Mecanica	

- [2023] Andrei KOMJATY, Attila GERÖCS, Elena WISZNOVSZKY, **CULDA LAVINIA IOANA**, SYSTEM FOR TRANSFORMING ROTATIONAL MOTION INTO UNIDIRECTIONAL LINEAR MOTION WITH THE HELP OF WEIGHTS MOUNTED ON RADIALLY SLIDING RODS, FOR AUTOMOTIVE/ SISTEM INERȚIAL DE TRANSFORMARE A MIȘCĂRII DE ROTAȚIE ÎN MIȘCARE LINIARĂ UNIDIRECȚIONAL CU AJUTORUL UNOR GREUTĂȚI MONTATE PE TIJE RADIAL CULISANTE, Ingineria automobilului, Nr. 68 / septembrie 2023, pg.16-20, ISSN 1842 – 4074, FI <0,01,

<http://siar.ro/wp-content/uploads/2023/08/rIA68-final.pdf>,

<https://www.webofscience.com/wos/woscc/full-record/WOS:001101879400004>

Informații din jurnal

INGINERIA AUTOMOBILULUI		0,01
ISSN	1842-4074	Journal Citation Indicator™ (2022)
Editorul actual	SOC AUTOMOTIVE ENGINEERS ROMANIA, SOC AUTOMOTIVE ENGINEERS ROMANIA, BUCURESTI 00000, ROMANIA	
Domenii de cercetare	Inginerie	
Categorii Web of Science	Inginerie, mecanică	

- [2023] **CULDA LAVINIA IOANA**, Elena Stela Muncuț Wisznovszky and Attila Geröcs, **SIMULATION OF FEEDING OF MACHINE TOOLS USING ROBOT ARMS**, The 22

nd International Conference of Nonconventional Technologies - ICNcT 2023 Bistrița, 16-18 November 2023,

http://artn.ro/conference2023/Programe/PROGRAM_CONFERINTA_ICNcT_2023_modif.pdf

- [2024] Elena Stela WISZNOVSZKY, Attila GEROCS, **CULDA LAVINIA IOANA**, Andrei KOMJATY, Geza-Mihai ERDODI, **CHAIN TRANSMISSION MECHANISM USED TO REDUCE THE REACTION MOMENT FOR MACHINERY THAT PERFORMS ROTATIONAL MOVEMENT AROUND ITS OWN**, Series: Applied Mathematics, Mechanics, and Engineering, Vol. XX, Issue 2, sept., 2024,
- [2024] **CULDA LAVINIA IOANA**, Elena Stela Muncuț Wisznovszky and Geza Mihai Erdodi, ETICHETAREA INTELIGENTĂ, UN PLUS DE CONTROL ASUPRA PRODUCȚIEI AUTOMATE A AUTOTURISMELOR/SMART LABELLING, MORE CONTROL OVER AUTOMATED CAR PRODUCTION, Ingineria automobilului Nr. 72 / septembrie 2024, ISSN 1842 – 4074s

2.1.2. Volumes of scientific events indexed by ISI Thomson Reuters, visible in the database

- [2009] **SĂBĂILĂ LAVINIA**., Mortoiu D.,Sima Gh., **Holonic system for use in a gas bottling company**, Annals of The 20- th DAAAM International World Symposium ,, Intelligent manufacturing& Automation :Teory, practice & Education , 25-28-th nov.2009, Viena, Austria , p.1250 , ISSN 1726-9679,

<https://www.webofscience.com/wos/woscc/full-record/WOS:000282335600494>

Journal information	
ANNALS OF DAAAM FOR 2009 & PROCEEDINGS OF THE 20TH INTERNATIONAL DAAAM SYMPOSIUM	
ISSN	1726-9679
Current Publisher	DAAAM INT VIENNA, VIENNA UNIV TECHNOLOGY, KARLSPLATZ 13, WIEN, A-1040, AUSTRIA
Research Areas	Automation & Control Systems; Engineering
Web of Science Categories	Automation & Control Systems; Engineering, Manufacturing

- [2009] Mortoiu D., **SĂBĂILĂ LAVINIA**.,Sima Gh., **Holonic Manufacturing System for safty system** ,Annals of The 20- th DAAAM International World Symposium ,, Intelligent manufacturing& Automation :Teory, practice & Education , 25-28-th nov.2009, Viena, Austria , p.1247; ISSN 1726-9679,

<https://www.webofscience.com/wos/woscc/full-record/WOS:000282335600492>

Journal information	
ANNALS OF DAAAM FOR 2009 & PROCEEDINGS OF THE 20TH INTERNATIONAL DAAAM SYMPOSIUM	
ISSN	1726-9679
Current Publisher	DAAAM INT VIENNA, VIENNA UNIV TECHNOLOGY, KARLSPLATZ 13, WIEN, A-1040, AUSTRIA
Research Areas	Automation & Control Systems; Engineering
Web of Science Categories	Automation & Control Systems; Engineering, Manufacturing

- [2019] Elena-Stela Muncut, **CULDA LAVINIA IOANA**, Geza-Mihai Erdodi and Gheorghe Sima, **The welding program optimization of a S355 steel assembly used in agricultural machinery**, 9th INTERNATIONAL CONFERENCE ON MANUFACTURING SCIENCE AND EDUCATION -MSE 2019- June 5-7, Sibiu, Romania, vol. II,2019, Ed. a IX – a, ISSN 2559-2963, ISSN-L 2559-2963, MATEC Web of Conferences **2019**, 08014 (2019), EDP Sciences, DOI: 10.1051/mateconf/201929008014, 10 pags.

<https://www.matec->

[conferences.org/articles/mateconf/abs/2019/39/mateconf_mse2019_08014/mateconf_mse2019_08014.html](https://www.matec-conferences.org/articles/mateconf/abs/2019/39/mateconf_mse2019_08014/mateconf_mse2019_08014.html)

<https://www.webofscience.com/wos/woscc/full-record/WOS:000569367700104>

Journal information	
9TH INTERNATIONAL CONFERENCE ON MANUFACTURING SCIENCE AND EDUCATION (MSE 2019): TRENDS IN NEW INDUSTRIAL REVOLUTION	
ISSN	2261-236X
Current Publisher	E D P SCIENCES, 17 AVE DU HOGGAR PARC D ACTIVITES COUTABOEUF BP 112, F-91944 CEDEX A, FRANCE
Research Areas	Engineering
Web of Science Categories	Engineering, Manufacturing

- [2019] **CULDA LAVINIA IOANA**, Elena-Stela Muncut and Geza-Mihai Erdodi, **The analysis of the robotized handling of oxygen gas tanks with the help of the petri networks**, 9th INTERNATIONAL CONFERENCE ON MANUFACTURING SCIENCE AND EDUCATION - MSE 2019- June 5-7, Sibiu, Romania, vol. II,2019, Ed. a IX – a, ISSN 2559-2963, ISSN-L 2559-2963, MATEC Web of Conferences **2019**, 08006 (2019), EDP Sciences, DOI: 10.1051/mateconf/201929008006, 9 pags.

<https://www.matec->

[conferences.org/articles/mateconf/abs/2019/39/mateconf_mse2019_08006/mateconf_mse2019_08006.html](https://www.matec-conferences.org/articles/mateconf/abs/2019/39/mateconf_mse2019_08006/mateconf_mse2019_08006.html)

<https://www.webofscience.com/wos/woscc/full-record/WOS:000569367700096>

Journal information	
9TH INTERNATIONAL CONFERENCE ON MANUFACTURING SCIENCE AND EDUCATION (MSE 2019): TRENDS IN NEW INDUSTRIAL REVOLUTION	
ISSN	2261-236X
Current Publisher	E D P SCIENCES, 17 AVE DU HOGGAR PARC D ACTIVITES COUTABOEUF BP 112, F-91944 CEDEX A, FRANCE
Research Areas	Engineering
Web of Science Categories	Engineering, Manufacturing

2.2. Articles in journals and the volumes of scientific events indexed in other international databases**Works in ISI pending and in BDI

2.2.1. BDI and B+ magazines

- [2013] Muncut Elena Stela, **CULDA LAVINIA IOANA**, Sima Gheorghe, Mortoiu Doina, **The study of increased height at MIG-CMT continuous or pulse combined braze-welding of the thin sheets of galvanized steel and aluminum**, Nonconventional Technologies Review, „Politehnica” Publishing House volume XVII no. 2/2013 ISSN: 1454-3087, pag.46-50 . CNCSIS B+
- [2020] **CULDA LAVINIA IOANA**, Muncut E.S., Komjaty A., **Robots E-Learning and Use of LEGO Kits When Building Hexapod**, ROBOTICA & MANAGEMENT, ISSN-L: 1453-2069; Print ISSN: 1453-2069; Online ISSN: 2359-9855, Editura Eftimie Murgu, Reșița, Vol. 25, Nr. 2:, pg 12-17, decembrie 2020 (cotat BDI)
http://robotica-management.uem.ro/fileadmin/Robotica/2020_2/RM_2020_2_Pag_01_Content.pdf
<http://robotica-management.uem.ro/index.php?id=733&L=0>
<https://journals.indexcopernicus.com/api/file/viewByFileId/1206607>
- [2022] Muncut E.S., **CULDA LAVINIA IOANA**., **Automation of the Process for Obtaining the Safety Panel Used on a Road Vehicle**, ROBOTICA & MANAGEMENT, Vol. 27, No. 1, June 2022, Indexed by: DOAJ, EBSCO Host, Index Copernicus, pg.19-22, DOI: <https://doi.org/10.24193/rm.2022.1>,
<https://rm.reviste.ubbcluj.ro/issues/vol-27-no-1-june-2022/>,
https://rm.reviste.ubbcluj.ro/wp-content/uploads/2022/10/RM_2022_1_Pag_19_Muncut_ES.pdf
<https://journals.indexcopernicus.com/api/file/viewByFileId/1638172>
- [2023] **CULDA LAVINIA IOANA**, Muncut (Wisznovszky) E.S., **RFID Technology in Production and Post Production for the Automotive Industry**, ROBOTICA & MANAGEMENT, Vol. 28, No. 1, June 2023, Indexed by: DOAJ, EBSCO Host, Index Copernicus, pg.20-27, DOI: <https://doi.org/10.24193/rm.2023.1.3>,
https://rm.reviste.ubbcluj.ro/wp-content/uploads/2023/10/RM_2023_1_Pag_21_Culda_LI.pdf
<https://rm.reviste.ubbcluj.ro/issues/vol-28-no-1-june-2023>
<https://journals.indexcopernicus.com/api/file/viewByFileId/1869476>
- [2023] **CULDA LAVINIA IOANA**., **Using ai in higher education in a pandemic context and beyond**, pg.46-51, The scientific heritage No 123 (2023), ISSN 9215 — 0365, DOI:10.5281/zenodo.10032984,

<https://zenodo.org/records/10032984>,

<http://www.scientific-heritage.com/wp-content/uploads/2023/10/The-scientific-heritage-No-123-123-2023.pdf> (Indexat Copernicus)

2.2.2. The volumes of scientific events indexed BDI and B+

- [2009] **SĂBĂILĂ LAVINIA IOANA**, Mortoiu D., Sima Gh., Radu I., **The future combat system network-SUGV**, Annals of the Oradea University, Fascicle of Management and Tehnological Engineering, CD-ROM Edition, Vol. VIII(XVIII), rezumat lucrare: pg.136, lucrare:799-804, nr.pg:6, Indexed by ULRICH`S Periodicals Directory **2009**, Oradea, ISSN: 1583-0691, **2009**, DOI: 10.15660/AUOFMTE.2009.1515,
<https://imt.uoradea.ro/auo.fmte/article.php?v1=2009>
https://imt.uoradea.ro/auo.fmte/files-2009/MECATRONICA_files/SABAILA%20Lavinia1.pdf
- [2009] **SĂBĂILĂ LAVINIA IOANA**, Mortoiu D., Sima Gh., Radu I., **Mechactronics of the DRL**, Annals of the Oradea University, Fascicle of Management and Tehnological Engineering, CD-ROM Edition, Vol. VIII(XVIII), rezumat lucrare:pg.137, lucrare:805-810, nr.pg:6, **Indexed by ULRICH`S Periodicals Directory 2009**, Oradea, ISSN: 1583-0691, **2009**, DOI: 10.15660/AUOFMTE.2009.1516,
<https://imt.uoradea.ro/auo.fmte/article.php?v1=2009>
https://imt.uoradea.ro/auo.fmte/files-2009/MECATRONICA_files/SABAILA%20Lavinia2.pdf
- [2013] Elena Stela Muncuț, **CULDA LAVINIA IOANA**, Gheorghe Sima, Doina Mortoiu, **The CMT braze-welded diffusion layer study on galvanized aluminium sheets**, ANNALS of the Oradea University, Fascicle of Mechanical and Technological Engineering, **2013** ISSN 1583-0691, DOI:10.15660/AUOFMTE.2013-1.2815,
<https://imt.uoradea.ro/auo.fmte/> (CNCSIS B+),
<https://imt.uoradea.ro/auo.fmte/files-2013-v1/Muncut%20Elena%20Stela.pdf>
- [2013] **CULDA LAVINIA IOANA**, Elena Stela Muncuț, Gheorghe Sima, Doina Mortoiu, **CAD/CAM Modeling and simulation, with the CATIA**, ANNALS of the Oradea University, Fascicle of Mechanical and Technological Engineering, **2013** ISSN 1583-0691, DOI:10.15660/AUOFMTE.2013-1.2782,
<https://imt.uoradea.ro/auo.fmte/> (CNCSIS B+),
<https://imt.uoradea.ro/auo.fmte/files-2013-v1/Culda%20Lavinia%20Ioana%201.pdf>
- [2019] E S Muncut, **CULDA LAVINIA IOANA**, G M Erdodi and G Sima, **8D complaint solving method in an automotive component processing company**, International Conference ANNUAL SESSION OF SCIENTIFIC PAPERS “IMT Oradea **2019**”, The Proceedings of

Conference IMT Oradea **2019**, ISSN 2501-5769(CD edition), IOP Conf. Ser.: Mater. Sci. Eng. **568** 012020, pp 102-106, 5pg.,

<https://iopscience.iop.org/article/10.1088/1757-899X/568/1/012020>

<https://www.webofscience.com/wos/author/record/AAH-1864-2019>

- **[2019]** **CULDA LAVINIA IOANA**, E S Muncut and Andrei Komjaty, **Rapid filament prototyping of a bionic hand**, International Conference ANNUAL SESSION OF SCIENTIFIC PAPERS “IMT Oradea **2019**”, The Proceedings of Conference IMT Oradea 2019, ISSN 2501-5796 (CD edition), Mater. Sci. Eng. **568** 012105 pp 583-587. , 5pg,
<https://iopscience.iop.org/article/10.1088/1757-899X/568/1/012105>
<https://www.webofscience.com/wos/author/record/AAH-1864-2019>
- **[2020]** Muncut Elena Stela; Erdodi, Geza Mihai; **CULDA LAVINIA IOANA**; Komjaty Andrei; Sirghie Cecilia, **Determination of speed and acceleration for a plane mechanism with the instantaneous rotation center method and euler's graf-analytical method using autocad mechanical**, Source: eLearning & Software for Education. **2020**, Vol. 2, p420-427. 8p. DOI: 10.12753/2066-026X-20-140,
<https://www.cceol.com/search/article-detail?id=1030984>
- **[2020]** BARBU, Ionel; KMJATY, Andrei; FOGORASI, Magdalena Simona; **CULDA LAVINIA IOANA**; BUCEVSCHI, Adina; KAMINSZKY, Robert **Teaching and e-learning about open-end spinning machine.**, Source: eLearning & Software for Education. **2020**, Vol. 3, p285-293. 9p. DOI: 10.12753/2066-026X-20-208,
<https://openurl.ebsco.com/EPDB%3Agcd%3A4%3A16099188/detailv2?sid=ebsco%3Aplink%3Ascholar&id=ebsco%3Agcd%3A145727642&crl=c>
<https://www.cceol.com/search/article-detail?id=1028056>
- **[2021]** Andrei Komjaty,Elena Stela Wisznovszky (Muncut) and **CULDA LAVINIA IOANA**, **The Study on the influence of technological parameters on 3D printing with sla technology**, 10th International Conference on Manufacturing Science and Education – MSE 2021, Article Number 01003, Number of page(s) 6, Section: Design, Manufacturing and Management of Technological Equipment and System, DOI: <https://doi.org/10.1051/mateconf/202134301003>, Published online: 04 August 2021
https://www.matec-conferences.org/articles/mateconf/abs/2021/12/mateconf_mse21_01003/mateconf_mse21_01003.html
<https://www.webofscience.com/wos/author/record/AAH-1864-2019>
- **[2021]** **CULDA LAVINIA IOANA**, ES Muncut (Wisznovszky), GM Erdodi, **Transforming 3D printed CNC prototype into a plotter**, The Annual Session Of Scientific Papers - IMT Oradea

2021, IOP Conf. Series: Materials Science and Engineering 1169 (2021) 012013 IOP Publishing
doi:10.1088/1757-899X/1169/1/012013,

<https://iopscience.iop.org/article/10.1088/1757-899X/1169/1/012013/meta>

<https://www.webofscience.com/wos/author/record/AAH-1864-2019>

- [2022] A Geröcs, E Muncut (Wisznovszky), D Glăvan, A Komjaty, V Muller, GM Erdodi, **CULDA LAVINIA IOANA**, **Mathematical and graphical modelling of an inertial system that uses the force of inertia of a liquid**, The Proceedings of Conference IMT Oradea 2022, The Proceedings of Conference IMT Oradea 2022, 11 pg., IOP Conf. Ser.: Mater. Sci. Eng. 1256 012005, IOP Conf. Series: Materials Science and Engineering 1256 (2022) 012005 IOP Publishing
doi:10.1088/1757-899X/1256/1/012005,

<https://iopscience.iop.org/article/10.1088/1757-899X/1256/1/012005/pdf>

<https://www.webofscience.com/wos/author/record/AAH-1864-2019>

- [2023] Geröcs Attila, **CULDA LAVINIA IOANA**, Muncut Elena (Wisznovszky), Komjaty Andrei, **Designing An Inertial System for Transforming Rotational Motion into Unidirectional Linear Motion**, Book Title:Acoustics and Vibration of Mechanical Structures — AVMS-2023, Book Subtitle: Proceedings of the 17th AVMS, Timișoara, Romania, May 26–27, 2023, ISBN 978-3-031-48086-7, Published 11 April 2024

https://link.springer.com/chapter/10.1007/978-3-031-48087-4_23

DOI https://doi.org/10.1007/978-3-031-48087-4_23

2.3 Articles in extenso in journals/volumes of non-indexed national/international scientific events

2.3.1. Works published in journals (not indexed);

- [2009] **SĂBĂILĂ LAVINIA IOANA**, **3D PRINTING, A WAY OF MODERN RAPIDITLY PROTOTYPING**, Robotica & Management, Edited by the Romanian Society for Industrial Robotics, The Caras – Severin Country Council and the “Eftimie Murgu” University of Reșița, International Journal, Volumul14, no.1,pag 42-44, ISSN 1453-2069, **2009 (cotată B)**
- [2009] Mortoiu D., **SĂBĂILĂ LAVINIA**., Tanasoiu A., „**Mechatronics Tehnology in Transport**”, International Jurnal,,Robotica & Management, vol.14, nr.1.june **2009**, ISSN 1453-2069, pag.38-41; **(cotată B)**
- [2009] **SĂBĂILĂ LAVINIA IOANA**, Gheorghe Sima, Doina M, **Quality, sensors, and holonic manufacturing system** Academic Journal of Manufacturing Engineering, volume 7, pag.72-77, ISSN 1583-7904, ISSUE 3/**2009 (cotat B)**

- [2009] Gheorghe Sima, Doina Mortoiu, **SĂBĂILĂ LAVINIA IOANA**, Holon, autonomy and cooperation for company Academic Journal of Manufacturing Engineering, volume 7 pag 90-95, ISSN 1583-7904, ISSUE3 /2009 (cotat B)

2.3.2. Papers in conference volumes with non-indexed references

- [2009] Radu I., Mortoiu D., Gal L., **SĂBĂILĂ LAVINIA IOANA**, Babanatsas T., But E, Speedy prototyping method, 14th International scientific conference-Quality and realibility of tehcnical systems, pag.191-193, ISBN 978-80-552-0222-8, Nitra **2009**
- [2009] Gheorghe Sima, Doina Mortoiu, **SĂBĂILĂ LAVINIA IOANA**, Gheorghe Hutiu, Management for holonic manufacturing, Annals of MteM for 2009& Proceedings of the 9th International MteM Conference Published by MteM 2009, pag 337-340, ISBN 973-7937-07-04, Cluj **2009** (cotat B) , ISBN 978-606-8372-02-0(pt 2011)
- [2009] **SĂBĂILĂ LAVINIA IOANA**, Doina Mortoiu, Gheorghe Sima, Company and Holonis system, Annals of MteM for 2009& Proceedings of the 9th International MteM Conference Published by MteM 2009, pag 341-344, ISBN 973-7937-07-04, Cluj **2009** (cotat B) ISBN 978-606-8372-02-0(pt 2011)
- [2010] Radu, I., Mortoiu Doina, Gal, L., **SĂBĂILĂ LAVINIA IOANA**, Muncuț Stela, Nicolae Ursu Fischer, Study of the execution elements with piston modeling and simulation, Symposium Research and Education in Innovation Era, 3rd Ed., Section Engineering, Arad, 10-12 nov., pag. 17-28, ISSN 1842-9718, **2010**, vezi lista de lucrari Radu Ioan publicat <https://cdn.uav.ro/documente-inginerie/Cadre/Lucrari/LISTA-LUCRARI-ST-RADU-I-2017.pdf>

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2.4 Intellectual property, invention and innovation patents, etc.

2.5 Grants/projects won through competition or contracts with the socio-economic environment (in the amount of at least 25,000 lei, (justified with documents certifying receipt of the amount)

- Research, development and consultancy contract. Project with an economic environment: Design of a laboratory for the reconditioning of turbo blowers (beneficiary registration no. 118/26.06.2024, executor no. 5073/27.06.2024) – project manager
- Research, development and consultancy contract. Economic environmental project: Designing a laboratory for cleaning particulate filters used in diesel engines (beneficiary registration no. 119/26.06.2024, executor no. 5072/27.06.2024) – member

2.6. Laboratory/research center coordination/development (if the laboratory is also didactic, the score is taken into account only once)

Development of Laboratory 17 body B in collaboration with Continental Timișoara - Robotics laboratory 2021 - until January 2023 (equipped with 34 workstations)
<https://www.uav.ro/evenimente/dona%C8%9Bie-pentru-uav>

- Sponsorship contract Continental Automotive Timisoara 14464/27.04.2021 registered UAV Arad 4054 from 30.06.2021, of 34 computers used in the educational act.
- Sponsorship of Continental Automotive Timisoara based on minutes 46693251/13.10.2019 registered UAV Arad of 13 monitors sent from the parent company in Germany, used in the educational act.

3. Recognition and impact of the activity (A3)

3.1 Visibility in international databases. Number of citations in publications (without self-citations)

3.1.1 citations in indexed articles ISI 10/no. cited article authors

3.1.1.1.Lucrarea: **Holonic Manufacturing System for Safety SisteMS**, Mortoiu D., **SĂBĂILĂ LAVINIA**.,Sima Gh., 20 th DAAAM International World Symposium, Austrian Society of Engineers and Architects –OIAV 1848 , Annals of DAAAM & Proceedings, 2009, Viena, Austria , p.1247, ISBN 978-3-901509-70-4, ISSN 1726-9679

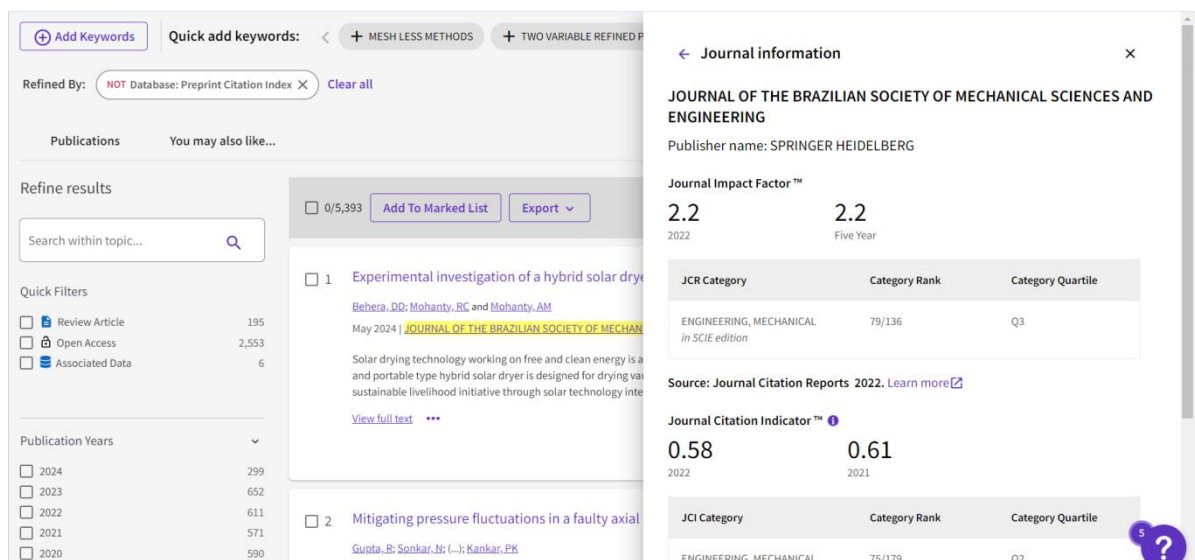
- **Citat în:** Aspectos tecnológicos del montaje y procesamiento de los tubos delgados (Artículo corto), Technological aspects of assembling and processing narrow tubes (Short paper), Sima, G., Hutiu, G., & Bocîi, L. S. (2012), Revista Facultad De Ingeniería Universidad DeAntioquia,(64), 195–199,
<http://www.scielo.org.co/pdf/rfiua/n64/n64a18.pdf>
<https://revistas.udea.edu.co/index.php/ingenieria/article/view/13153>
<https://www.webofscience.com/wos/woscc/full-record/WOS:000310722100018>

3.1.1.2.Lucrarea: **Holon,autonomy and cooperation for company**, SĂBĂILĂ LAVINIA IOANA Culda, Gheorghe Sima, Doina Mortoiu, Academic Journal of Manufacturing Engineering, Volume 7, Issue 3 /2009, Pages 90-95, ISSN 1583-7904

- **Citat în:** Aspectos tecnológicos del montaje y procesamiento de los tubos delgados (Artículo corto), Technological aspects of assembling and processing narrow tubes (Short paper), Sima, G., Hutiu, G., & Bocîi, L. S. (2012), Revista Facultad De Ingeniería Universidad De Antioquia, (64), 195–199., <https://doi.org/10.17533/udea.redin.13153>,
<http://www.scielo.org.co/pdf/rfiua/n64/n64a18.pdf>,
<https://revistas.udea.edu.co/index.php/ingenieria/article/view/13153>
<https://www.webofscience.com/wos/woscc/full-record/WOS:000310722100018>

3.1.1.3. Lucrarea: Study on the influence of technological parameters on 3D printing with SLA technology, Andrei Komjaty, Elena Stela Wisznovszky, Lavinia Ioana Culda, MATEC Web of Conferences, 2021

- **Citat în:** The effect of build orientation on the mechanical properties of a variety of polymer AM-created triply periodic minimal surface structures, February 2024 Journal of the Brazilian Society of Mechanical Sciences and Engineering 46(3), DOI: 10.1007/s40430-024-04709-0 (ISI), <https://www.webofscience.com/wos/allldb/full-record/WOS:001160745100003>



3.1.1.3. Carte: Autocad 2006, partea I-modelarea 2d, Îndrumător pentru uzul studenților, Mortoiu Doina, Săbăilă Lavinia, Babanatsas Theoharis, Gal Lucian, Editura Universității “Aurel Vlaicu”, Arad, 2006

- **Citat în:** Hard as a Rock or Deformation Controlled?, Sima, G (Sima, Gheorghe) ; Glavan, DO (Glavan, Dan Ovidiu), Alexandru, P (Alexandru, Popa), Muncut, E (Muncut, E.), SOFT COMPUTING APPLICATIONS, (SOFA 2014), VOL 1, Volume356Page135-140PartI, DOI10.1007/978-3-319-18296-4_11, Book Series Advances in Intelligent Systems and Computing, 2016, Indexed 2016-01-01, Proceedings Paper, Conference Meeting 6th International Workshop on Soft Computing Applications (SOFA), Location Timisoara, ROMANIA, Date JUL 24-26, 2014, SOFT COMPUTING APPLICATIONS, (SOFA 2014), VOL 1, ISSN 2194-5357, eISSN 2194-5365, Current Publisher SPRINGER INTERNATIONAL PUBLISHING AG GEWERBESTRASSE 11, CHAM, CH-6330, SWITZERLAND, <https://www.webofscience.com/wos/allldb/full-record/WOS:000452853200011>
- **Citat în:** HIGH PRECISION WITH REAL TIME CORRECTION IN MANUFACTURING, Sima, G (Sima, Gheorghe), Glavan, D (Glavan, Dan), Popa, A (Popa, Alexandru), Mortoiu, D (Mortoiu, Doina), AKTUALNI ZADACI MEHANIZACIJE POLJOPRIVREDE Volume43Page387-394, Book Series Actual Tasks on Agricultural Engineering-Zagreb,

Book Subtitle ACTUAL TASKS ON AGRICULTURAL ENGINEERING, Published 2015, Indexed 2016-04-27, Document Type Proceedings Paper, Journal information AKTUALNI ZADACI MEHANIZACIJE POLJOPRIVREDE, ISSN 1848-4425, <https://www.webofscience.com/wos/alldb/full-record/WOS:000373450700034>

3.1.2. citations in indexed articles BDI 5/no. cited article authors

3.1.2.1. Lucrarea: TEACHING AND E-LEARNING ABOUT OPEN-END SPINNING MACHINE, Barbu Ionel, Fogorasi Magdalena Simona, Komjaty Andrei, Bucevschi Adina, Culda Lavinia, Robert Kaminszky, The 16th International Scientific Conference, eLearning and Software for Education, Bucharest, April 11-12, **2020**, Volume 3 | DOI: 10.12753/2066-026X-20-208 | Pages: 285-293

https://www.researchgate.net/publication/341232419_TEACHING_AND_E-LEARNING_ABOUT_OPEN-END_SPINNING_MACHINE/citations

- **Citata în: Transforming 3D printed CNC prototype into a plotter** LI Culda, ES Muncut (Wisznovszky) and GM Erdodi Published under licence by IOP Publishing Ltd IOP Conference Series: Materials Science and Engineering, Volume 1169, The Annual Session Of Scientific Papers (IMT Oradea 2021) 27th-28th May 2021, Oradea, Romania , <https://iopscience.iop.org/article/10.1088/1757-899X/1169/1/012013/meta> **(BDI)**
- **Citata în: TEACHING AND E-LEARNING ABOUT DRAW FRAME MACHINE.** BARBU, Ionel; BUCEVSCHI, Adina; KOMJATY, Andrei; FOGORASI, Magdalena Simona; DOCHIA, Mihaela; PUSTIANU, Monica; KAMINSZKY, Robert, eLearning & Software for Education . 2021, Vol. 3, p90-97. 8p. <https://www.cceol.com/search/article-detail?id=1030535> **(BDI)**

3.1.2.2. Lucrarea: Study on the influence of technological parameters on 3D printing with SLA technology, Andrei Komjaty, Elena Stela Wisznovszky, Lavinia Ioana Culda, MATEC Web of Conferences, **2021**,

https://www.researchgate.net/publication/353682192_Study_on_the_influence_of_technological_parameters_on_3D_printing_with_sla_technology/citations

- **Citata în: Preliminary study for the development of an autonomous system for emulating mandibular bone drilling**, Leonardo Riva, Roberto Pagani, Antonio Fiorentino, Alberto Borboni and Elisabetta Ceretti, International Journal of Mechatronics and Manufacturing Systems Vol. 15, No. 2-3, <https://doi.org/10.1504/IJMMS.2022.124923>, <https://www.inderscienceonline.com/doi/abs/10.1504/IJMMS.2022.124923>

<https://www.researchgate.net/publication/361873953> Preliminary study for the development of an autonomous system for emulating mandibular bone drilling (revista BDI)

- **Citata în:** Automation of the Process for Obtaining the Safety Panel Used on a Road Vehicle, Elena Stela Muncut, Lavinia Ioana Culda Săbăilă, June 2022 Robotica & Management 27(1):19-22, DOI: 10.24193/rm.2022.1.4,

<https://www.researchgate.net/publication/365499330> Automation of the Process for Obtaining the Safety Panel Used on a Road Vehicle

3.1.2.3. Lucrarea: Transforming 3D printed CNC prototype into a plotter, LI Culda, ES Muncut (Wisznovszky) and GM Erdodi, Published under licence by IOP Publishing Ltd, IOP Conference Series: Materials Science and Engineering, Volume 1169, The Annual Session Of Scientific Papers (IMT Oradea 2021) 27th-28th May 2021, Oradea, Romania(BDI), https://scholar.google.com/citations?view_op=view_citation&hl=en&user=BzpjQwwAAAAJ&citation_for_view=BzpjQwwAAAAJ:4DMP91E08xMC

- **Citată în:** Exploring Creative applications in the Digital Age: A review of Computer Numerical Controlled Plotter, DOI: 10.1109/ICMEAS58693.2023.10379222, Conference: 2023 2nd International Conference on Multidisciplinary Engineering and Applied Science (ICMEAS), <https://ieeexplore.ieee.org/abstract/document/10379222> November 2023

3.1.2.4. Lucrarea: RAPID FILAMENT PROTOTYPING OF A BIONIC HAND LI Culda, ES Muncut, A Komjaty Annual Session of Scientific Papers "IMT ORADEA 2019 IOP Conf. Series: Materials Science and Engineering 568 (2019) 012105 IOP Publishing doi:10.1088/1757-899X/568/1/012105, https://scholar.google.com/citations?view_op=view_citation&hl=en&user=BzpjQwwAAAAJ&citation_for_view=BzpjQwwAAAAJ:qjMakFHDy7sC

- **Citata in: The Design and Characterization of a 3D Printed Venturi Tube** Joshua E. Hrisko - July 25, 2020 https://static1.squarespace.com/static/59b037304c0dbfb092f8e894/t/5f1c740e33dc544479035a16/1595700242234/the_design_and_characterization_of_a_3d_printed_venturi_tube_joshua_hrisko.pdf(BDI)
- **Citata in:** Study on the influence of technological parameters on 3D printing with sla technology, Andrei Komjaty, Elena Stela Wisznovszky (Muncut), and Lavinia Ioana Culda , May 2021 MATEC Web of Conferences 343(9):01003, DOI: 10.1051/matecconf/202134301003, Conference: ANNUAL SESSION OF SCIENTIFIC PAPERS IMT ORADEA 2021, Oradea, <https://mro-nz.massey.ac.nz/handle/10179/15967>

3.1.2.5. Lucrarea: DETERMINATION OF SPEED AND ACCELARATION FOR A PLANE MECHANISM WITH THE INSTANTANEOUS ROTATION CENTER METHOD AND

EULER'S GRAF-ANALYTICAL METHOD USING AUTOCAD MECHANICAL. Elena Stela MUNCUT, Geza Mihai ERDODI, Lavinia Ioana CULDA, Andrei Komjaty, Cecilia Sirghie, Conference proceedings of »eLearning and Software for Education« (eLSE) eLearning & Software for Education . 2020, Vol. 2, p420-427. 8p.

https://www.researchgate.net/publication/360259388_DETERMINATION_OF_SPEED_AND_ACCELERATION_FOR_A_PLANE_MECHANISM_WITH_THE_INSTANTANEOUS_ROTATION_CENTER_METHOD_AND_EULER'S_GRAF-ANALYTICAL_METHOD_USING_AUTOCAD_MECHANICAL/citations

- **Citata in: Transforming 3D printed CNC prototype into a plotter**, LI Culda, ES Muncut (Wisznovszky) and GM Erdodi Published under licence by IOP Publishing Ltd IOP Conference Series: Materials Science and Engineering, Volume 1169, The Annual Session Of Scientific Papers (IMT Oradea 2021) 27th-28th May 2021, Oradea, Romania https://www.researchgate.net/publication/353856034_Transforming_3D_printed_CNC_prototype_into_a_plotter (BDI)
- **Citata in: Designing An Inertial System for Transforming Rotational Motion into Unidirectional Linear Motion**, ovember 2023, DOI: 10.1007/978-3-031-48087-4, In book: Acoustics and Vibration of Mechanical Structures — AVMS-2023. Chapter: Designing an Inertial System for Transforming Rotational Motion into Unidirectional Linear Motion. Publisher: Springer Nature Corrections Team https://www.researchgate.net/publication/375895760_Designing_An_Inertial_System_for_Transforming_Rotational_Motion_into_Unidirectional_Linear_Motion (BDI)

3.1.2.6. Lucrarea: The welding program optimization of a S355 steel assembly used in agricultural machinery, Elena-Stela Muncut, Lavinia-Ioana Culda, Geza-Mihai Erdodi, Gheorghe Sima, MATEC Web of Conferences 290, 08014 (2019),

<https://doi.org/10.1051/mateconf/201929008014> MSE 2019, https://www.matec-conferences.org/articles/mateconf/pdf/2019/39/mateconf_mse2019_08014.pdf https://scholar.google.com/citations?view_op=view_citation&hl=en&user=BzpjQwwAAAAJ&citation_for_view=BzpjQwwAAAAJ:2osOgNQ5qMEC

- **Citata in: FLEXIBLE ROBOTIC LINE FOR THE PROCESSING OF CAR RIMS AND PRODUCT IMPROVEMENT USING FINITE ELEMENT SIMULATION**, Andrei Komjaty¹, Elena Stela Muncut, Geza Mihai Erdodi, Revista de Tehnologii Neconventionale; Sibiu Vol. 23, Iss. 4, (Dec 2019), <https://www.proquest.com/openview/170ffb571c1d430c474d99830e7262be/1?pq-origsite=gscholar&cbl=366251>

https://scholar.google.com/scholar?oi=bibs&hl=en&cites=9855241340553000991&as_sdt=5

(BDI)

3.1.2.7. Lucrarea: PORTABLE DEVICES IN THE FIGHT OF SARSCOV2, Culda Lavinia, May 2022, Applied Mathematics and Mechanics Vol. 65(Issue Special I):81,

https://www.researchgate.net/publication/360486088_PORTABLE_DEVICES_IN_THE_FIGHT_OF_SARSCOV2/citations

- **Citata in:** Designing An Inertial System for Transforming Rotational Motion into Unidirectional Linear Motion, ovember 2023, DOI: 10.1007/978-3-031-48087-4, In book: Acoustics and Vibration of Mechanical Structures — AVMS-2023.Chapter: Designing an Inertial System for Transforming Rotational Motion into Unidirectional Linear Motion.Publisher: Springer Nature Corrections Team, https://www.researchgate.net/publication/375895760_Designing_An_Inertial_System_for_Tra nsforming_Rotational_Motion_into_Unidirectional_Linear_Motion (BDI)

3.1.2.8. Lucrarea: 8D COMPLAINT SOLVING METHOD IN AN AUTOMOTIVE COMPONENT PROCESSING COMPANY, E S Muncut , L I Culda G M Erdodi and G Sima

IOP Conf. Series: Materials Science and Engineering 568 (2019) 012020 IOP Publishing doi:10.1088/1757-899X/568/1/012020 Annual Session of Scientific Papers "IMT ORADEA 2019,

https://www.researchgate.net/publication/335872321_8D_complaint_solving_method_in_an_automot ive_component_processing_company/citations

- **Citata in:** Aplicação do método simplex para maximizar o uso da matéria-prima na fabricação de semicondutores e reduzir o tempo de cálculo na preparação dos lotes para produção, Lucian Araujo da SilvaIracyanne Retto UhlmannIracyanne Retto Uhlmann, May 2022, Conference: X Simpósio de Engenharia de Produção - SIMEP 2022, DOI: 10.29327/xsimep.472492, https://www.researchgate.net/publication/367709962_Aplicacao_do_metodo_simplex_para_m aximizar_o_uso_da_materia- prima_na_fabricacao_de_semicondutores_e_reduzir_o_tempo_de_calculo_na_preparacao_dos_lotes_para_producao
- **Citata in:** Transforming 3D printed CNC prototype into a plotter, LI Culda, ES Muncut (Wisznovszky), GM Erdodi, May 2021IOP Conference Series Materials Science and Engineering 1169(1):012013, DOI: 10.1088/1757-899X/1169/1/012013, Conference: ANNUAL SESSION OF SCIENTIFIC PAPERS IMT ORADEA 2021At: Oradea, https://www.researchgate.net/publication/353856034_Transforming_3D_printed_CNC_protot ype_into_a_plotter

3.1.3 citations in other publications 3/no. cited article authors

3.1.3.1. Lucrarea: 8D COMPLAINT SOLVING METHOD IN AN AUTOMOTIVE COMPONENT PROCESSING COMPANY, E S Muncut , L I Culda, G M Erdodi and G Sima IOP Conf. Series: Materials Science and Engineering 568 (2019) 012020 IOP Publishing doi:10.1088/1757-899X/568/1/012020 Annual Session of Scientific Papers "IMT ORADEA 2019 https://scholar.google.com/scholar?oi=bibs&hl=en&cites=17957665524614616892&as_sdt=5

- **Citata in: Strategies to Reduce Nonconformance of Parts in Aerospace Manufacturing** Lloyd, John Louis, Jr. Walden University ProQuest Dissertations Publishing, 2022. 29169693. <https://www.proquest.com/openview/bf204bf92fb0eb6d7d081e5fb39fdf6d/1?pqorigsite=gscholar&cbl=18750&diss=y> (teza)

3.1.3.2. Lucrarea: RAPID FILAMENT PROTOTYPING OF A BIONIC HAND LI Culda, ES Muncut, A Komjaty Annual Session of Scientific Papers "IMT ORADEA 2019 IOP Conf. Series: Materials Science and Engineering 568 (2019) 012105 IOP Publishing doi:10.1088/1757-899X/568/1/012105, https://scholar.google.com/scholar?oi=bibs&hl=en&cites=4927178467750270120&as_sdt=5

- **Citata in: 3D printing of textured soft meat analogues** Tianxiao Wang, A thesis presented in partial fulfilment of the requirements for the degree Of Master of Food Technology At Massey University, Palmerston North, New Zealand 2020 <https://mro.massey.ac.nz/bitstream/handle/10179/15967/WangMFoodTechThesis.pdf?sequence=2&isAllowed=y> (teza)

3.1.3.3. Lucrarea: THE CMT BRAZE-WELDED DIFFUSION LAYER STUDY ON GALVANIZED ALUMINIUM SHEETS, Elena Stela MUNCUT, Lavinia Ioana CULDA, Gheorghe SIMA , Doina MORTOIU, ANNALS OF THE ORADEA UNIVERSITY Fascicle of Management and Technological Engineering ISSUE #1, MAY 2013, pg 219- 222 <http://www.imtuoradea.ro/auo.fmte> , https://scholar.google.com/scholar?oi=bibs&hl=en&cites=157858437761732798&as_sdt=5

- **Citata in: SAVUNMA SANAYİSİNDE CMT UYGULAMALARININ İNCELENMESİ** Uğur ERSOY T.C. SAKARYA UYGULAMALI BİLİMLER ÜNİVERSİTESİ LİSANSÜSTÜ EĞİTİM ENSTİTÜSÜ Ocak 2019 https://acikbilim.yok.gov.tr/bitstream/handle/20.500.12812/222400/yokAcikBilim_10237800.pdf?sequence=-1&isAllowed=y (teza)

3.1.3.4. Lucrarea: The analysis of the robotized handling of oxygen gas bottles with the help of the Petri networks, Culda, Lavinia; Muncuț, Elena Stela; Geza Mihai Erdodi. MATEC Web of Conferences; Les Ulis, Vol. 290, (2019). DOI:10.1051/mateconf/201929008006,

<https://www.proquest.com/openview/568e2b3056f42250849fa1c4b62a1f39/1?pq-origsite=gscholar&cbl=2040549>
https://scholar.google.com/scholar?oi=bibs&hl=en&cites=629263292377517840&as_sdt=5

- **Citata în:** Modélisation et optimisation de systèmes complexes: application aux systèmes de flux de personnes, Z LOUHAB – 2024, <https://www.univ-mascara.dz/wp-content/uploads/2024/03/Affichage-souy-Louhab-Zouaoui.pdf>

3.1.3.5.Lucrarea: Study on the influence of technological parameters on 3D printing with SLA technology, Andrei Komjaty, Elena Stela Wisznovszky, Lavinia Ioana Culda, MATEC Web of Conferences, 2021,

https://scholar.google.com/scholar?oi=bibs&hl=en&cites=13538485965061682626&as_sdt=5

- **Citata în: Creating a Modified Toothbrush Handle with a 3D Printer**, Y Widiastuti, S Widiati, IT Soeprihati, G Adistyawan - Indonesian Archives of ..., 2022

3.2 Presentations made as a guest in the plenary of national and international scientific events and Guest Professor (Erasmus only)

3.2.1 abroad

3.2.2 in the country

3.3 (a) Member of editorial boards or scientific committees of scientific journals and events, organizer of scientific events/(b) Reviewer for ISI indexed national and international scientific journals and events The score is taken into account only once for a journal or scientific manifestation

3.3.1 ISI indexed

3.3.2 indexed BDI

Member of the organizing committee of: The 15th, Conference Of Nonconventional Technologies, ICNcT2011, 15th Conference of Nonconventional Technologies 2011 - Romanian Association for Nonconventional Technologies 15th International Conference of Nonconventional Technologies (ICNcT 2011). The Conference will be held in Arad, University Aurel Vlaicu of Arad, (Romania), 4-5 November 2011, and it is organized by the Romanian Association for Nonconventional Technologies (ARTN/RANcT), the POLITEHNICA University of Timisoara, Mechanical Engineering Faculty , Mechanical Technology Chair, and the, University Aurel Vlaicu of Arad, Engineering Faculty, MachineManufacturing Technology Department, with the support of MINISTRY OF EDUCATION, RESEARCH, YOUTH AND SPORTS, National Authority for Scientific Research. The Organizing Committee intends to continue the tradition of the last `40 years international conferences series, by joining specialists from universities, specialized research institutes and industry, to share their major achievements in the field of non-conventional manufacturing

technologies. In order to achieve the desired scientific level, the International Scientific Committee will evaluate the papers and will notify the authors about any suggestions and observations, before final paper submission. Conferences Proceedings will be published in Nonconventional Technologies Review and a special CD-ROM will be issued (www.revtn.ro) - NONCONVENTIONAL TECHNOLOGIES REVIEW, p-ISSN 1454-3087, quarterly, accredited journal CNC SIS B+, IC Value - Expected 2010 4.74 (2010). CONFERENCE TOPIC is about dimensional manufacturing using equipment and unconventional technologies.

<http://artn.ro/conference2011/>

<http://artn.ro/conference2011/comitee.html>

3.3.3 national and international non-indexed

3.3.3.1. Member of the organizing committee of scientific events, co-organizer of national scientific events, not indexed

3.3.3.1.1. Member of the organizing team The International Students Scientific Communications Session of the Engineering Faculty at Aurel Vlaicu University of Arad is now in its 26th edition. <https://cdn.uav.ro/documente-inginerie/Manifestari-Studentesti/programSICSS2024.pdf>

3.3.3.1.2. Member of the organizing team The 25th Edition of the International Students Scientific Communications Session of the Engineering Faculty of Aurel Vlaicu University from Arad, Edition XXV - June 7-8, 2023, ARAD, ROMANIA <https://cdn.uav.ro/documente-inginerie/Manifestari-Studentesti/Program-Sesiunea-studenti-XXV-2023.pdf>

3.3.3.1.3. Member of the organizing team - International Student Scientific Communications Session of the UAV Engineering Faculty, XXIV edition – 2022, ARAD, 15-16 June 2022 <https://cdn.uav.ro/documente-inginerie/Manifestari-Studentesti/Programme-Sesiunea-studenti-XXIV-2022.pdf>

3.3.3.1.4. Member of the organizing team International session of scientific communications for students of the Faculty of Engineering from the "Aurel Vlaicu" University of Arad, XXIII edition, 2021 ARAD, ROMANIA, <https://issscarad2021.netlify.app>

3.3.3.1.5. Member of the organizing team The 22nd Edition of the International Students Scientific Communications Session of the Engineering Faculty of Aurel Vlaicu University from Arad June 27 2020, ARAD, ROMANIA, https://issscarad2020.webnode.ro/?fbclid=IwAR1cyWaAfnJinOjClJmIsLk-GyXeHIS_rYuyJwoi4NL94ZICG2v_9_4hwGc

3.3.3.1.6. Member of the organizing team The 21th Edition of the International Students Scientific Communications Session of the Engineering Faculty of Aurel Vlaicu University

from Arad 17 -19 June 2019, ARAD, ROMANIA <https://sicssarad2019.webnode.ro/committee>

3.3.3.1.7. Member of the organizing team The 20th Edition of the International Students Scientific Communications Session of the Engineering Faculty of Aurel Vlaicu University from Arad 7-9 June 2018, ARAD, ROMANIA <https://sicssarad2018.webnode.ro/committee>

3.3.3.1.8. The 19th Edition of the International Students Scientific Communications Session of the Engineering Faculty of Aurel Vlaicu University from Arad June 6-8 June 2017, ARAD, ROMANIA <https://sesiunea-de-comunicari-stiintifice-studentesti.webnode.ro/comitet>

3.3.3.1.9. Member of the organizing team The 18th Edition of the International Students Scientific Communications Session of the Engineering Faculty of Aurel Vlaicu University from Arad June 19-25 May 2016, ARAD, ROMANIA, <https://cdn.uav.ro/documents-engineering/2010-2016-Sesiuni-iintifice-studentesti.pdf> , pg3

3.3.3.2. Reviewer for magazines and national scientific events

3.4 Management, analysis and evaluation experience in research and/or education

3.4.1 Management

3.4.2 Membership

3.4.2.1. Member of the UAV Admission Commission

- Admission committee member 2006-2024 (18 years old - 4 years child-rearing leave)

3.4.2.2. Member of the timetable and exam scheduling committee within the Faculty of UAV Engineering

- Decision no. 428 of 28.09.2021
- Decision no. 775 of 29.09.2022
- Decision no. x of 2023 – UAV website <https://inginerie.uav.ro/cadre-didactice/information-for-teachers>,

3.4.2.3. Member of the Commission for projects and magazine

- Decision no. 428 of 28.09.2021
- Decision no. 775 of 29.09.2022
- Decision no. x of 2023 – UAV website <https://inginerie.uav.ro/cadre-didactice/information-for-teachers>

3.4.2.4. Member of the Commission for quality assessment

- Decision no. 442 of 04.08.2020
- Decision no. 428 of 28.09.2021
- Decision no. 775 of 29.09.2022

- Decision no. x of 2023 – UAV website <https://inginerie.uav.ro/cadre-didactice/information-for-teachers>

3.4.2.5. Member of the Licensing Commission

- Member of the TCM Licensing Commission June 2012
Decision no. 213 of 18.05.2012
- Member of the TCM Licensing Commission June 2011
Decision no. 47 of 17.02.2011

3.4.2.6. Member of the Faculty Council since 2024

- <https://inginerie.uav.ro/cadre-didactice/information-for-teachers>

3.4.2.7. Member of the competition commission for the position

- Decision no. 389 of 03.06.2024

3.5 Awards

3.5.1 Romanian Academy

3.5.2 ASAS, AOSR, branch academies and CNCS

3.5.3 international awards

3.5.4 national awards in the field

- [2010] **SĂBĂILĂ LAVINIA IOANA**, Automation of storing GPL recipients, The XIV=th international exhibition of research , innovation and tehnological transfer – Inventica 2010, Medalia de aur , Iași 2010

3.6 Membership in academies, organizations, prestigious national and international professional associations, membership in educational and research organizations

3.6.1 Romanian Academy

3.6.2 ASAS, AOSR and branch academies

3.6.3 Management of Professional associations

3.6.3.1 international

3.6.3.2 national

3.6.4 Professional associations

3.6.4.1 international

3.6.4.2 national

3.6.4.2.1. AGIR member from 2019-present

3.6.4.2.2. Member of the Romanian Robotics Association from 2021-present

3.6.4.2.3. Member of the ROMANIAN ASSOCIATION FOR TECHNOLOGIES
SIBIU ALTERNATIVES - ART from 2021-present

3.6.5 Organizations in the field of education and research

3.6.5.1 Driving

3.6.5.2 Membership

Monthly magazine of scientific and technical culture

2007

- SĂBĂILĂ LAVINIA IOANA, Computer-assisted surgery, Science and technique, Year LIX, no. 5, page 48-49, ISSN 1220-6555, May 2007 as publicist and collaborator
- SĂBĂILĂ LAVINIA IOANA, Haptic applications in medicine, Science and technology, Year LIX, no. 6, page 48-49, ISSN 1220-6555, June 2007 as publicist and collaborator

Mentioned in: List of specialists 2002, position 405

Awards

- [2010] SĂBĂILĂ LAVINIA IOANA, Automation of storing LPG recipients, The XIV=th international exhibition of research, innovation and technological transfer – Inventica 2010, Gold Medal, Iasi 2010