

Universitatea Națională de Știință și Tehnologie POLITEHNICA București

Facultatea: Inginerie Industrială și Robotică

Departamentul: Tehnologia Construcțiilor de Mașini

Nume Prenume: Spânu Paulina

Gradul didactic: Conf.dr.ing.

## L I S T A

### lucrărilor științifice în domeniul disciplinelor din postul didactic

#### A. Teza de doctorat

**Paulina SPÂNU** - “Contribuții privind studiul prelucrabilității prin frezare a materialelor compozite cu matrice polimerică”, Teza de doctorat, - Universitatea POLITEHNICA din BUCUREȘTI, 2009

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

1. Andrea MARCONI, Anita MONTAGNA, **Paulina SPANU**, Mihaela Elena ULMEANU, Cristian Vasile DOICIN, Erika VAIGINIENÉ, John BETHANIS, Nikolaos KOKOSIS . *Academic civic commitment through Public Engagement in the Third Mission*. Egregius Editorial, Seville – 2023 .ISBN: 978-84-1177-035-4, 168 pg
2. Barradas, R., Lencastre, J. A., Bento, M., Soares, S., & Valente, A. **Paulina SPANU** ... *Robots in Action*. CIEd/IE/UMinho. ISBN 978-989-8525-78-9 <https://robotsforstem.e/106/> (2023) 327 pag
3. **Paulina SPÂNU**, „Programarea Calculatoarelor, Îndrumar de proiectare bilingv (Român – Englez)” Editura PRINTECH, (cod CNC SIS 54), ISBN 978-606-23-1383-8, 2022. 134 pag
4. José Alberto LENCASTRE, **Paulina SPÂNU**, Gül den İLİN, Panos MILIOS, Marco BENTO, *Mobile Robotics* ,Printed in Istanbul, Turkey at Öz Karacan Printers and Binders, Güneşli, Bağcılar,İstanbul, ISBN : 978-605-70651-1-7, pag 192,2022"
5. José Alberto LENCASTRE, **Paulina SPÂNU**, Gül den İLİN, Panos MILIOS, Marco BENTO, *Gaming in Action* , Printed in Istanbul, Turkey at Öz Karacan Printers and Binders, Güneşli, Bağcılar,İstanbul, ISBN : 978-605-70651-0-0, pag 259,2021"
6. **Paulina SPÂNU**, Jose Alberto LANCASTRE, Marco BENTO, Gulden ILIN, Panos MILIOS, *Book with apps and pedagogical practices using game-based learning and gamification in innovative pedagogical scenarios*, Editura PRINTECH, București 2021, ISBN 978-606-23-1263-3, pg 72
7. Catalin Gheorghe AMZA; Doru CANTEMIR; Ioana CANTEMIR; Giulia SALUCCI; **Paulina SPANU**, Paweł POTERUCHA; Francesco TARANTINO; Mike TRIANTAFILLOU; Eirini

ZIGNA. *Guidelines on the use of drones in VET*, Publishing house: Danmar Computers LLC, ISBN 978-83-950622-0-9, 25 pag

8. Amza C. Bjornsdottir A., Borg J. Codau C, Eyporsdottir A, Mamo J. Muresan Negreau P., **Spanu P.**, *Introduction to Industry 4.0 and digital manufacturing*, editura Printech, 2019, pg. 167, Capitole 3 (pag 29-58) singur autor, 4 doi autori (pag 59 -86), 6 doi autori (pag 103 -123)
9. **Paulina SPÂNU**, Tom SAVU, Bogdan ABAZA, „*Îndrumar de laborator bilingv (Român – Englez) Programarea Calculatoarelor*” Editura PRINTECH, (cod CNC SIS 54), ISBN 978-606-23-0819-3, 2018. 330 pag
10. Judit ABAD, Anna ANDRICOPOLOUS, Ella BUJOK, Giulio IANIS, Cetin ILIN, Panous KOUTOUDIS, Andreea MARCONI, Siboah NEARY, Angeliki PANAGIOTIDOU, Vassilis PATASOURATIS, **Paulina SPÂNU**, „*Improving career management skills, Models, practices and guidance resources*”, Editor Derby University, U.K, 2017, ISBN 978-1-910755-24-2, 115 pag
11. Cătălin AMZA, Teodora CHICIOREANU, Gabriel TAȘCĂ, **Paulina SPÂNU**, Horia PETRESCU, „*Operator introducere, validare și prelucrare date*” Editura PRINTECH (cod CNC SIS 54), ISBN 978-606-23-0288-7, 2014, 420 pag
12. Bogdan ABAZA, Tom SAVU, **Paulina SPÂNU**, „*Îndrumar de laborator – Algoritmi*” Editura PRINTECH, (cod CNC SIS 54), ISBN 978-606-23-0229-0, 2014, 113 pag
13. Tom SAVU, Bogdan ABAZA, **Paulina SPÂNU**, „*Îndrumar de laborator – Reprezentări grafice*” Editura PRINTECH, (cod CNC SIS 54), ISBN 978-606-23-0230-6, 2014, 84 pag.

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

1. **Paulina SPÂNU**, Mihaela-Elena ULMEANU, Cristian-Vasile DOICIN, *Academic Third Mission through Community Engagement: An Empirical Study in European Universities*, Journals Education Sciences, Volume 14, 2024, WOS:001170336300001
2. **Paulina SPANU**, Cristian-Vasile DOICIN, Mihaela-Elena ULMEANU, Florin BACIU, *Analyzing the Tensile Strength of Carbon Fiber-Reinforced Epoxy Composites Using LabVIEW Virtual Instrument*, Mater. Plast., 61 (1), 2024,
3. Constantin RADU, **Paulina SPANU**, Ana-Maria BOGATU, *Finite element modeling of ultrasonic energy concentrators used in mechanical processing*, MTeM 2023 International Conference. ACTA TECHNICA NAPOCENSIS SERIES-APPLIED MATHEMATICS MECHANICS AND ENGINEERING Journa2023
4. Nicolae IONESCU, Mihaela Elena ULMEANU, Cristian Vasile DOICIN, Catalin IONESCU, **Paulina SPÂNU**, *Prescribed precision for medical products obtained with additive manufacturing technologies*, ICAMaT 2022, 12th International Conference on Advanced Manufacturing Technologies, DOI 10.1088/1757-899X/1268/1/012004" 2022 doi:10.1088/1757-899X/1268/1/012004

5. **Paulina SPANU**, Bogdan Felician ABAZA, *Tensile Strength Prediction of Fiberglass Polymer Composites Using Artificial Neural Network Model* Mater. Plast., 59 (2), 2022, 111-118 <https://doi.org/10.37358/MP.22.2.5590>, WOS:000865452800005
6. Bogdan Felician ABAZA, **Paulina SPANU**, Bogdan Alexandru JUGRAVU, Dragos Alexandru APOSTOL, *Study on Compressive Properties of Recycling PETs and CANs for Designing a Smart Waste Management Compactor*, Mater. Plast., 58 (3), 2021, 64-75, 2021, WOS:000705010100003
7. **Paulina SPANU**, Jose Alberto LENCASTRE, Marco BENTO, Gulden ILIN, Panos MILIOS, *Game-Based Learning and Gamification – Case Study ‘‘Covering all the Information the Partnership Gained from the Project’’* 37th IBIMA Conference 1-2 may 2021, Cordoba, Spain 2021 DOI 10.5281/zenodo.10255463.
8. Mihaela ULMEANU , Cristian DOICIN, **Paulina SPANU** *Comparative Evaluation of Sustainable Framework in STEM Intensive Programs for Secondary and Tertiary Education*, Sustainability 2021, vol 13 <https://www.mdpi.com/journal/sustainability> 2021, WOS:000611743500001
9. **Paulina SPANU**, Mihaela ULMEANU and Cristian DOICIN, *Expectations of Students to Improve their Academic Performance – Case Study* 36th IBIMA Conference: 4-5 November 2020, Granada, Spain 2020 <https://zenodo.org/records/10254883>
10. Mihaela-Elena ULMEANU, Cristian-Vasile DOICIN, **Paulina SPÂNU**, Vlad GHEORGHITĂ and Vlad ENACHE *Project Planning For The Development Of An E-Learning Interactive Educational Platform In Industrial Engineering-Based Applications* 36th IBIMA Conference: 4-5 November 2020, Granada, Spain 2020
11. Dan-Alexandru BEJENARU, Mihaela-Elena ULMEANU, Cristian-Vasile DOICIN, **Paulina SPÂNU** and Nicolae TUNSOIU, *Pilot Course For Sustainable Development Of E-Learning Tools*, 36th IBIMA Conference: 4-5 November 2020, Granada, Spain, 2020
12. Simona COSTACHE, Mihaela-Elena ULMEANU, Cristian-Vasile DOICIN and **Paulina SPÂNU**, *Project Management of a Research Internship in Medical Applications*, 36th IBIMA Conference: 4-5 November 2020, Granada, Spain 2020
13. Bogdan Felician ABAZA, Bogdan Alexandru JUGRAVU and Paulina SPANU, *Smart Waste Management Application for Pet Bottle Compactor*, 36th IBIMA Conference: 4-5 November 2020, Granada, Spain 2020
14. Alexandra - Cristina SPÂNU, Maria-Iuliana DASCALU, **Paulina SPÂNU** and Iulia Cristina STANICA, *A Sentiment Analysis Case Study: Socializing about Social Distancing*, 36th IBIMA Conference: 4-5 November 2020, Granada, Spain 2020
15. **Paulina SPANU**, Teodora Daniela CHICIOREANU, *Students' Perspective. The Main Factors that Contribute to Students' Dropouts*, The 16th International Scientific Conference eLearning and Software for Education Bucharest, April 23-24, 2020 10.12753/2066-026X-20-155 Volume 2, 2020 DOI: 10.12753/2066-026X-20-155

16. José Alberto LENCASTRE, Marco BENTO, **Paulina SPANU**, Gülden İLIN and Panos MILIOS, *State of the Art of Adult Education Trainers on Gaming and Gamification*, 34th IBIMA Conference: 13-14 November 2019, Madrid, Spain 2019 WOS:000556337401033
17. **Paulina SPÂNU**, Albert Daniel DUMITRU, *LabVIEW Application for Simulating some Functions Available on Car`s Boards* 32nd IBIMA Conference: 15-16 November 2018, Seville, Spain 2018 WOS:000508553207084
18. **Paulina SPANU**, Catalin Gheorghe AMZA, Bogdan Felician ABAZA, *Study Redarding the Compressive Properties of Glass Fiber Reinforced Composites*, Materiale plastice, 55, nr. 42018, WOS:000454987400025
19. **Paulina SPÂNU**, Gabriel JIGA, Mihai RĂDULESCU, *LabVIEW Application for the Strength Calculus of an Unhomogeneous Beam*, "29th International Business Information Management Association Conference, , ISBN: 978-0-9860419-7-6, 2017 WOS:000410252702148
20. Paulina SPÂNU, **Cătălin Gheorghe AMZA**, Gabriela DINU, *Statistical Analysis of Some Mechanical Characteristics of Glass Fiber Reinforced Composites*, Materiale plastice , pag. , ISSN: 0025-5289 , 2017 WOS: 000426412500001
21. **Paulina SPÂNU**, Cătălin Gheorghe AMZA, Gabriela DINU, *Statistical Analysis of Some Mechanical Characteristics of Glass Fiber Reinforced Composites*, Materiale plastice, ISSN: 0025-5289 , 2017WOS, : 000426412500001
22. **Paulina SPÂNU**, *A Case Study Regarding the Career Management Skills in the Romanian Context*, 30th International Business Information Management Association Conference - IBIMA, ISBN: 978-0-9860419-9-0, 2017, WOS:000443640500020"
23. Ionuț GHIONEĂ, Aurelian VIȘAN, **Paulina SPÂNU**, Cătălin IONESCU, *Application for Human Resource Training and Cost Reduction by Prescribing Product Precision Based On Size Dependent Geometric Tolerances*, 30th International Business Information Management Association Conference – IBIMA, ISBN: 978-0-9860419-9-0, 2017 WOS:000443640500095
24. Nicolae CONSTANTIN, Marin SANDU, Adriana SANDU, **Paulina SPÂNU**, Dorin ROȘU, Cătălin ENESCU, *Study upon the Damage Tolerance of Thick Sandwich Materials Study upon the Damage Tolerance of Thick Sandwich Materials*, Material and Manufacturing Technology VIII, Solid State Phenomena, ISSN: 1662-9779, Vol. 266, pag 287-291, 2017
25. Nicolae IONESCU, Mihaela ULMEANU, **Paulina SPÂNU**, *WEEE Recycling – Passport and ideality based methodology* "New Technologies and Products in Machine Manufacturing Technologies, no. 24, 2017, ISSN-1224029X, 2017, pag. 122- 125, Conferință, Indexată BDI: TEHNOMUS Journal <http://www.tehnomusjournal.fim.usv.ro/>"
26. Cătălin IONESCU, **Paulina SPÂNU**, Aurelian VIȘAN, *Reducing Products Costs by Prescribing Geometric Precision based on Size - Dependent Tolerances*, "28th International Business Information Management Association Conference (28th IBIMA) on “Vision 2020: Innovation Management, Development Sustainability, and Competitive Economic Growth” - (ISBN: 978-0-9860419-8-3). 2016 WOS:000392785700096

27. Nicolae CONSTANTIN, Marin SANDU, Adriana SANDU, **Paulina SPÂNU**, Dorin ROȘU, Constantin Valentin EPURAN, Bogdan PĂTRĂU, *Some aspects concerning the mechanical characterization versus manufacturing technology of sandwich composite materials*. "Advanced Technologies in Designing and Progressive Development of Manufacturing Systems, ICAMAT 2015, 29-30th October 2015, Bucharest, Romania, pag. 161-166 BDI: Scientific.net DOI: <https://doi.org/10.4028/www.scientific.net/AMM.834.161>" 2015
28. Nicolae CONSTANTIN, Marin SANDU, Mircea GĂVAN, **Paulina SPÂNU**, Dorin ROȘU, Constantin Valentin EPURAN, Bogdan PĂTRĂU, Cătălin ENESCU, *Links between Low Velocity Impact Results and the Residual Mechanical Performance of Sandwich Composite Material*", Advanced Technologies in Designing and Progressive Development of Manufacturing Systems, ICAMAT 2015, 29-30th October 2015, Bucharest, Romania, pag 167-172 BDI:Scientific.net, DOI: <https://doi.org/10.4028/www.scientific.net/AMM.834.167>" 2015
29. Tom SAVU., Bogdan ABAZA., **Paulina SPÂNU**, *Artificial intelligence based system for the real-time control of polymerization processes* "MATERIALE PLASTICE, vol. 51, nr. 3/2014, Ultimul factor de impact 0,778, pag. 343-346, ISSN: 0025-5289 WOS:000344723900028,BDI: Web of Science ", 2014 WOS:000344723900028
30. **Paulina SPANU**, Bogdan ABAZA, Daniel CAZACU, *Technological Process Design for the Flanged Parts Using a LabVIEW Application*", Advanced Technologies in Designing and Progressive Development of Manufacturing Systems, ICAMAT 2014, 23-24th October 2014, Bucharest, Romania, Journal Applied Mechanics and Materials, Vol. 760 (2015), pp. 81-86 , Editor Savu T. et. al., Publisher Trans Tech Publications, Switzerland, ISBN 978-3-03835-443-7, BDI: Scientific.net <https://doi.org/10.4028/www.scientific.net/AMM.760.81>"

**- Selecție cu maximum 20 lucrări în volume de conferințe**

1. Constantin RADU, **Paulina SPANU**, Ana-Maria BOGATU, *Finite element modeling of ultrasonic energy concentrators used in mechanical processing*, MTeM 2023 International Conference. ACTA TECHNICA NAPOCENSIS SERIES-APPLIED MATHEMATICS MECHANICS AND ENGINEERING Journal, 2023
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*the Damage Tolerance of Thick Sandwich Materials*, Material and Manufacturing Technology VIII, Solid State Phenomena, ISSN: 1662-9779, Vol. 266, pag 287-291, 2017

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#### **E. Brevete obținute în întreaga activitate**

1. Brevet de invenție nr. 122665: „FOLIE POLIMERICA MULTISTRAT FOTOSELECTIVA PENTRU ACOPERIRE DE SOLARII S TUNELE”; Inventatori Opran Constantin, Grosu Elena, Ristici Eufrosina, Iliescu Mihaiela, Nemes Eleonora, Dontu Ionela, **SPÂNU Paulina**, Petrescu Teodor, Ciofu Ruxandra, Eliberat la data de 30.11.2009

**Data: 24.03.2024**

**Semnătura:**