

Universitatea Națională de Știință și Tehnologie POLITEHNICA București

Facultatea: Inginerie Industrială și Robotica

Departamentul: Roboți și Sisteme de Producție

Nume Prenume: Carmen-Cristiana CAZACU

Gradul didactic: Șef Lucrări

Disciplina: Informatică aplicată

LISTA

lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

Contribuții privind dezvoltarea interfeței proiectare-fabricație (CAD-CAM) într-un mediu de inginerie virtuală, Universitatea Politehnica București – Facultatea Ingineria și Managementul Sistemelor Tehnologice, anul susținerii 2010. Diploma Doctor, Nr. 19 din 30.08.2010 emisă de Universitatea Politehnica din București.

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

1. Popescu D., Cazacu D.A., Cazacu C.C. - Manual ICDL 3D Printing – Competențe digitale în domeniul modelării 3D și al tehnologiilor de imprimare 3D – versiunea 2, editura ICDL ROMANIA, 978-606-9037-43-0, pagini 131, Format electronic, 2025

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

1. Chiscop, F.; Serban, A.; Cazacu, C.-C.; Popa, C.L.; Cotet, C.E. Virtual Commissioning for Optimization of an Automated Brushless Stator Assembly Line. Processes 2025, 13, 3793. <https://doi.org/10.3390/pr13123793>, WOS:001648272600001
2. Chiscop, F.; Jitaru, E.S.; Cazacu, C.-C.; Popa, C.L.; Parpala, L.F.; Cotet, C.E. Enhancing Production Line Station Efficiency and Performance via Dynamic Modelling Techniques. Processes 2025, 13, 3176. <https://doi.org/10.3390/pr13103176>, WOS:001601608400001
3. Chiscop, F.; Vlase, A.I.; Cazacu, C.-C.; Popa, C.L.; Cotet, C.E. Manufacturing Productivity Improvement by Integrating Digital Tools Illustrated in the Optimization of a Hub Assembly Line. Machines 2025, 13, 849. <https://doi.org/10.3390/machines13090849> WOS:001580502300001
4. Chiscop, F.; Cazacu, C.-C.; Cazacu, D.-A.; Cotet, C.E. Sustainable Thermal Post-Processing of PLA 3D Prints: Increased Dimensional Precision and Autoclave Compatibility. J. Funct. Biomater. 2025, 16, 334. <https://doi.org/10.3390/jfb16090334>, WOS: 001581522900001
5. Cazacu, C.-C.; Nasu, T.C.; Hanga, M.; Cazacu, D.-A.; Cotet, C.E. Smart Manufacturing Workflow for Fuse Box Assembly and Validation: A Combined IoT, CAD, and Machine Vision Approach. Appl. Sci. 2025, 15, 9375. <https://doi.org/10.3390/app15179375>, WOS: 001569556900001
6. Cazacu, C.-C.; Hanga, M.; Chiscop, F.; Cazacu, D.-A.; Cotet, C.E. Controlling Industrial Robotic Arms Using Gyroscopic and Gesture Inputs from a Smartwatch. Appl. Sci. 2025, 15, 8297. <https://doi.org/10.3390/app15158297> WOS:001549009700001
7. Cazacu C.C., Stefan (Iorga) I., Parpala R.C., Popa C.L., Cotet C.E. – Optimizing Assembly in Wiring Boxes Using API Technology for Digital Twin, Applied Sciences (2.5 Q1), Special Issue Design, Analysis, Intelligent Control and Optimization of Industrial and Manufacturing Processes, Volume 14, Issue 20, 9483; Edited by Dr. Daynier Rolando Delgado Sobrino and Dr. Rafał Gołębski <https://doi.org/10.3390/app14209483>, Switzerland 2024, WOS: 001341740200001

8. Cazacu D.-A., Drăguțu M., Hanga M., Cazacu C.-C., and Chiscop F., "Real-Time Interaction and Monitoring of Collaborative Robots via AR/VR and Digital Twin in IIoT Frameworks," International Journal of Modeling and Optimization, vol. 16, no. 1, pp. 6-10, 2026, DOI: 10.7763/IJMO.2026.V16.876 , indexat în INSPEC(IET), CNKI, EBSCO, ProQuest, Google Scholar, Electronic Journals Library,
9. Cazacu D.-A., Hanga M., Cazacu C.-C., and Chiscop C., "Digital Twin-Based Control and Monitoring of Industrial Robotic Arms Using Cloud CAD Platforms," International Journal of Modeling and Optimization, vol. 16, no. 1, pp. 1-5, 2026, DOI: 10.7763/IJMO.2026.V16.875 indexat în INSPEC(IET), CNKI, EBSCO, ProQuest, Google Scholar, Electronic Journals Library,
10. Cazacu C.C., Chiscop F., Cazacu D.A. - Using IoT to Dynamically Test Smart Connected Devices, 10th International Conference on Manufacturing Science and Education – MSE 2021, Volume 343 (2021), data publicării online August 2021, Journal MATEC Web of Conferences, eISSN: 2261-236X, <https://doi.org/10.1051/mateconf/202134303004>, indexat în DOAJ, EBSCO, Google Scholar, Inspect, ProQuest.
11. Chiscop F., Necula B., Cazacu C.C., Stoica C.E. - Using Digital Twinning in Fast-food Production Chain Simulation, 10th International Conference on Manufacturing Science and Education – MSE 2021, Volume 343 (2021), data publicării online August 2021, Journal MATEC Web of Conferences, eISSN: 2261-236X, <https://doi.org/10.1051/mateconf/202134303005>, indexat în DOAJ, EBSCO, Google Scholar, Inspect, ProQuest.
12. CAZACU, D.-A., NAȘU, T.-C., HANGA, M., CAZACU, C.-C., & CHISCOP, F. (2025). Integration of CAD-guided automated insert placement for enhanced 3D printed component assembly. Proceedings in Manufacturing Systems, 20(1), 35–41. <https://doi.org/10.5281/zenodo.18713314>, indexat în ProQuest
13. CAZACU, D.-A., GHEORGHE-NĂFTĂILĂ, D., HANGA, M., CAZACU, C.-C., & CHISCOP, F. (2025). Additive manufacturing of pneumatically actuated soft robotic grippers: enabling complex geometries and configurations. Proceedings in Manufacturing Systems, 20(2), 47–53. <https://doi.org/10.5281/zenodo.18713839>, indexat în ProQuest

D. Lucrări publicate în ultimii 10 ani în reviste și volume de conferințe cu referenți (neindexate)

- Reviste

1. Stoica B.C., Hanga M., Costea I.B., Cazacu C.C. – ArtRobo: Using collaborative robots for automated drawing transposition onto paper, Published in Journal of Industrial Engineering and Robotics, Volume 8, Number 2, ISSN 3061-4112, ISSN-L 3061-4112, pag.159 –166, https://industrialengineeringjournal.eu/pdf/vol8_2024_2/vol8_2024_2.pdf, 2024, indexat în Google Scholar
2. Șelaru C.C.I., Hanga M., Cazacu C.C. – Building an Educational Entertainment Robot for Preuniversity Activities via Additive Manufacturing, Published in Journal of Industrial Engineering and Robotics, Volume 8, Number 3, ISSN 3061-4112, ISSN-L 3061-4112, pag.1 – 6, https://industrialengineeringjournal.eu/pdf/vol8_2024_3/vol8_2024_3.pdf, 2024, indexat în Google Scholar
3. Cula Șt., Burghiu L.M., Cazacu C.C. – Designing a Robot for Distributing Advertising Materials using Additive Manufacturing, Published in Journal of Industrial Engineering and Robotics, Volume 8, Number 3, ISSN 3061-4112, ISSN-L 3061-4112, pag.7 – 14, https://industrialengineeringjournal.eu/pdf/vol8_2024_3/vol8_2024_3.pdf, 2024, indexat în Google Scholar

4. Dobrescu D.M., Mutuleasa R.M., Cazacu C.C. – Designing and Programming Hexapod Robots and Possible Uses, Published in Journal of Industrial Engineering and Robotics, Volume 8, Number 3, ISSN 3061-4112, ISSN-L 3061-4112, pag.15 – 18, https://industrialengineeringjournal.eu/pdf/vol8_2024_3/vol8_2024_3.pdf, 2024, indexat în Google Scholar
5. Dinu M.C., Iancu R.A., Cazacu C.C. – The Design Of Digital Production Systems in the Context of Industry 4.0, Published in Journal of Industrial Engineering and Robotics, Volume 7, Number 4, ISSN 3061-4112, ISSN-L 3061-4112, pag. 126 – 131, https://industrialengineeringjournal.eu/pdf/vol7_2023_4/Art23.pdf, 2023, indexat în Google Scholar
6. Jitaru E.Ș., Cazacu C.C. – On-Cloud Database and 3D Printing Technologies for Small Scale IFV Hatches Monitoring Simulator, Published in Journal of Industrial Engineering and Robotics, Volume 7, Number 4, ISSN 3061-4112, ISSN-L 3061-4112, pag. 112 – 117, https://industrialengineeringjournal.eu/pdf/vol7_2023_4/Art20.pdf, 2023, indexat în Google Scholar
7. Marin C.N., Cazacu C.C. – Programming a color-based sorting system and its utility in industry, Published in Journal of Industrial Engineering and Robotics, Volume 7, Number 4, ISSN 3061-4112, ISSN-L 3061-4112, pag. 118 – 121, https://industrialengineeringjournal.eu/pdf/vol7_2023_4/Art21.pdf, 2023, indexat în Google Scholar

- Selecție cu maximum 20 lucrări în volume de conferințe

Nu se aplică.

E. Brevete obținute în întreaga activitate

Nu se aplică.

Data: 28.08.2026

Semnătura:

