



Technical University of Cluj Napoca
Faculty of Industrial Engineering, Robotics and Production Management
Department: Design Engineering and Robotics
Lecturer Dr.Eng. Corina Adriana Dobocan

LIST scientific papers in the field of teaching subjects

A – Thesis

"Theoretical research and contributions regarding the process of launching new products on the market"
Scientific professor coordinator: Prof. Dr. Eng. Ioan Blebea
Technical University of Cluj Napoca
Public representation: 10.06.2010.

B – Books and book chapters published in the last 10 years

BOOKS

1. **Dobocan Corina Adriana**, *Sisteme de fabricatie in mediul industrial*, Ed Mega, Cluj-Napoca, 2021, ISBN: 978-606-020-362-9,.
2. **Corina Adriana Dobocan**, *Sisteme de fabricatie-Indrumator de laborator*, Ed. UTPress, ISBN 978-606-737-569-5, mai 2022, <https://biblioteca.utcluj.ro/files/carti-online-cu-coperta/569-5.pdf>
3. **Corina Adriana Dobocan**, *Managementul promovarii produselor*, Suport de curs, Ed. UTPress, ISBN 978-606-737-571-8, iunie 2022, Cluj-Napoca, <https://biblioteca.utcluj.ro/files/carti-online-cu-coperta/571-8%20.pdf>
4. **Corina Adriana Dobocan**, *Logistica sistemelor de fabricatie*, Suport de curs, Ed. UTPress, ISBN 978-606-737-572-5, iunie 2022, <https://biblioteca.utcluj.ro/files/carti-online-cu-coperta/572-5%20.pdf>
5. **Corina Adriana Dobocan**, Pop Emanuela, *Proiectarea produselor industriale prin metode moderne in vederea reducerii consumului de apa in procesul de fabricatie*, ISBN 978-606-020-739-9, decembrie 2023, Editura Mega, Cluj-Napoca.

BOOK CHAPTERS

1. I. Blebea, **C. Dobocan**, R.M. Gligor Optimal Control Problem in New Products, Mechanisms and Mechanine Science, NEW TRENDS IN MECHANISM SCIENCE: ANALYSIS AND DESIGN Launch - Optimal Path Using a Single Command, ISBN 978-90-481-9688-3, pp. 467-473, 2010.



C – ISI/BDI indexed papers published in the last 10 years

c1) Articles / studies published at indexed conferences or in specialized magazines of recognized international circulation (ISI ratings)

<https://orcid.org/0000-0002-8248-1420>

1. **Corina Adriana Dobocan**, Emanuela Pop, Monica Bogdan , Catalin Grec , *Design and Modelling a Graduated Dispenser for Metabolic Diseases—Phenylketonuria*, MDPI - Appl. Sci. 2022, 12, 10672, <https://doi.org/10.3390/app122010672> , Oct 2022.
2. Monica BOGDAN, **Corina Adriana DOBOCAN**, *INCREASING THE PRODUCTIVITY OF AN ENTERPRISE BY EFFICIENTLY MANAGING THE POTENTIAL RISKS THAT OCCUR IN THE MANUFACTURING PROCESS*, ACTA TECHNICA NAPOCENSIS Series: Applied Mathematics, Mechanics, and Engineering Vol. 65, Issue III, September, 2022. <https://atna-mam.utcluj.ro/index.php/Acta/article/view/1870>
3. **Corina Adriana Dobocan**, Constantin Chiriac, Claudiu Schonstein and Raul Silviu Rozsos, *An approach of designing a mobile fridge freezer*, ACTA TECHNICA NAPOCENSIS - Series: APPLIED MATHEMATICS, MECHANICS, and ENGINEERING, Vol. 64, Special Issue IV, Dec. 2021 (QIEM-ICNcT 2021 Joint conference)
4. Claudiu Schonstein, Razvan Curta and **Corina Adriana Dobocan**, *Considerations regarding the implementation of serial robots in working processes*, ACTA TECHNICA NAPOCENSIS - Series: APPLIED MATHEMATICS, MECHANICS, and ENGINEERING, Vol. 64, Special Issue IV, Ianuarie 2022 (QIEM-ICNcT 2021 Joint conference).
5. **Corina Adriana DOBOCAN**, Claudiu SCHONSTEIN, Cătălin COVAȘĂ, *The design of a photovoltaic panels system connected to an irrigation system*, ACTA TECHNICA NAPOCENSIS, Series: Applied Mathematics, Mechanics, and Engineering, Vol. 64, Issue III, September, 2021.
6. Claudiu SCHONSTEIN, **Adriana Corina DOBOCAN**, *Dynamic control functions for a translational axis of a serial robot structure*, ACTA TECHNICA NAPOCENSIS, Series: Applied Mathematics, Mechanics, and Engineering, Vol. XX, Issue xx, September 2021.
7. Roxana Rusu-Both, Clement Festila, Rodica Festila, **Corina Adriana Dobocan**, *Parameter scheduling adaptive bang-bang control for belt conveyor*. 2020 IEEE International Conference on Automation, Quality and Testing, Robotics, Cluj-Napoca, Romania, p. 303-307, DOI:10.1109/AQTR49680.2020.9130020 (2020)
8. Sas Diana , Colosi Tiberiu , Silaghi Helga , Silaghi Marius , Kovendi Zoltan , Coroiu Laura , Gergely Eugen , Costea Claudiu , **Dobocan Corina**. *Dimensional Study of Matrix of Partial Derivatives of the State Vector*



(Mpx) Method. Journal of computer science and control systems - vol. 13, nr. 2, oct, p. 20-25, p-issn: 1844-6043, e-issn: 2067-2101, cd-issn: 2067-2098.

9. Neamtu Calin, Bere Paul, **Dobocan Corina**, Ghinea Rares, Solcan Sergiu, Mold design for polystyrene plastic anchor, Applied Mechanics & Materials 808, 2015.

10. **Dobocan Corina Adriana**, Craciun Florina, The Detention of the Heavy Metal Ions by the Zeolitic Volcanic Tuffs (A Case Study of Cluj County, Romania), Indian Journal of Applied Research, Volume 3, Issue 11, Nov. 2013, ISSN 2249-555X, p.213-214, Journal Impact Factor 2012: 0.8215

11. **Dobocan C.A.***, Popescu D.** and Topa V.***, Exploring the main quarries zeolite volcanic tuffs from Cluj County, Romania, Proceedings of 13th International Conference on Environmental Science and Technology CEST2013, ISBN 978-960-7475-51-0 ; ISSN 1106-5516.

12. **Dobocan C.A.***, Popescu D.** , Culea E.***And Topa V.****, Analisis of the zeolitic volcanic tuffs from Cluj County Romania, Proceedings of 13th International Conference on Environmental Science and Technology CEST2013, ISBN 978-960-7475-51-0 ; ISSN 1106-5516.

13. **Corina Adriana Dobocan**, Ioan Blebea, Daniela Popescu, The application of the optimal control problem with mobile extremes on the new product launch process, Acta Technica Napocensis, Series: Applied Mathematics and Mechanics, 56, Issue I, Technical University of Cluj-Napoca, ISSN: 1221-5872, p.109-114.

14. **Corina Adriana Dobocan**, Ioan Blebea, Daniela Popescu, A Mathematical Model Applied To An Economical Process, Acta Technica Napocensis, Series: Applied Mathematics and Mechanics, 56, Issue I, Technical University of Cluj-Napoca, ISSN: 1221-5872, p.115-120.

15. **Dobocan, C.A.**; Toaso, G. The Concept of a Compact, Mobile, and Accurate Solution for the Dosing of Protein Substitutes for Medical and Sports Environments. Preprints 2023, 2023121035. <https://doi.org/10.20944/preprints202312.1035.v1>- Preprints (under review)

c2) Studies published at conferences or in journals indexed in international reference databases in the field of Industrial Engineering and Management (DBLP, ACM, IEEE, SCOPUS, etc.)

1. **Dobocan, C. A.**, Popescu, D., & Topa, V. (2013). Water consumption in romanian agriculture. ProEnvironment Promediu, 6(13) Retrieved from <https://www.proquest.com/scholarly-journals/water-consumption-romanian-agriculture/docview/1993086551/se-2> [[PROQUEST].

2. Diana, S., Tiberiu, C., Helga, S., Marius, S., Zoltan, K., Laura, C., . . . **Corina, D.** (2020). Dimensional study of matrix of partial derivatives of the state vector (mpdx) method. Journal of Computer Science and Control Systems, 13(2), 20-25. Retrieved from <https://www.proquest.com/scholarly-journals/dimensional-study-matrix-partial-derivatives/docview/2465481601/se-2>. [PROQUEST]



3. Neamtu Calin, Bere Paul, **Dobocan Corina**, Ghinea Rares, Solcan Sergiu, Mold design for polystyrene plastic anchor, Applied Mechanics & Materials Vol. 808, pp 143-148, 2015, DOI:10.4028/www.scientific.net/AMM.808.143.
4. **Corina Adriana Dobocan**, Ioan Blebea, Daniela Popescu, A Mathematical Model Applied To An Economical Process, Acta Technica Napocensis, Series: Applied Mathematics and Mechanics, 56, Issue I, Technical University of Cluj-Napoca, ISSN: 1221-5872, p.115-120.
5. **DOBOCAN, Corina Adriana**; BLEBEA, Ioan; POPESCU, Daniela. THE APPLICATION OF THE OPTIMAL CONTROL PROBLEM WITH MOBILE EXTREMES ON THE NEW PRODUCT LAUNCH PROCESS. **ACTA TECHNICA NAPOCENSIS - Series: APPLIED MATHEMATICS, MECHANICS, and ENGINEERING**, [S.I.], v. 56, n. 1, mar. 2013. ISSN 2393–2988. Available at: <<https://atna-mam.utcluj.ro/index.php/Acta/article/view/430>
6. **Dobocan Corina Adriana**, Popescu Daniela, Topa Vasile, Velay Xavier, Socaciu Lavinia, An approach of business water footprint, 2nd International Management Conference, RMEE, ISSN 2247-8639, Locație în publicație: International Management Conference, RMEE, Cluj-Napoca, 15-17 septembrie 2011, p. 90-96. [EBSCO]
7. **Dobocan, C. A.**, Popescu, D., Topa, V., & Stoica, O. (2012). A CALCULATION METHOD FOR WATER FOOTPRINT APPLIED IN AN ECONOMICAL ENTITY: ACCES LA SUCCESS. Calitatea, Suppl. Access to Success QUALITY, 13(5), 349-352. Retrieved from <https://www.proquest.com/scholarly-journals/calculation-method-water-footprint-applied/docview/1261375792/se-2> [PROQUEST]
8. **DOBOCAN, Corina**; VELAY, Xavier. AN APPROACH OF WATER FOOTPRINT CONCEPT. Academic Journal of Manufacturing Engineering, 2011, 9.1. [EBSCO]
9. **Dobocan, Corina Adriana**, Popescu, Daniela, Topa, Vasile, Stoica, Octavian, A calculation method of water footprint applied in an economical entity, Supplement of the „Quality- Access to Success” Journal, Vol. 13, S5, Locație în publicație: p. 349-352; Journal inclus in SCOPUS, EBSCO, PROQUEST and CABELL'S Directories and Databases, 2012.
10. I. Blebea, **C. Dobocan**, R. Morariu Gligor, Optimal control problem in new products launch – optimal path using a single command, New trends in mechanism science-analysis and design, Springer 2010, ISBN 978-90-481-9688-3, DOI 10.1007/978-90-481-9689-0, pg 467.



D – Papers published in the last 10 years in journals and conference volumes with referees (not indexed)

- Journals

1. **Corina Adriana DOBOCAN**, Ioan Blebea, Daniela Popescu, Ramona Florea, Diana Rus, Camelia Vlad, New product development-Policies and tactics, Automation, Quality and Testing, Robotics (B+) Cluj , 2008, ISBN 978-973-713-248-2.
2. **Corina Adriana DOBOCAN**, Ioan Blebea, Ramona Florea, Pop Constantin Alex., Management of a new product development, Quality-Innovation-European Integration. (B+), Sibiu 2008 ISBN 3-901888-41-3.

- Selection with a maximum of 20 papers in conference volumes

1. **Corina DOBOCAN**, Ioan BLEBEA, Nicoleta GLIGUȚA, Lavinia SOCACIU, Maria HARANGOZO, Dorel POPESCU, Metodologia de identificare a nevoilor consumatorului , A IX-a Conferință Națională multidisciplinară –cu participare internațională, „Profesorul Dorin Pavel-Fondatorul hidroenergeticii românești”, SEBEȘ 2009, pg 603.
2. Nicoleta GLIGUȚA, Ioan BLEBEA, **Corina Adriana DOBOCAN**, Lavinia-Gabriela SOCACIU, Maria-Magdolna HARANGOZO –Impactul procesului de compostare asupra factorilor de mediu și sănătății populației, A X-a Conferință Națională multidisciplinară –cu participare internațională, „Profesorul Dorin Pavel-Fondatorul hidroenergeticii românești”, SEBEȘ 2010.
3. Lavinia-Gabriela SOCACIU, Ioan BLEBEA, Maria HARANGOZO, **Corina DOBOCAN**, Analiza părților interesate de fabricarea produselor competitive, A IX-a Conferință Națională multidisciplinară –cu participare internațională, „Profesorul Dorin Pavel-Fondatorul hidroenergeticii românești”, SEBEȘ 2009. pg.625.

E – Patents obtained for the entire activity; -

F – Research contracts

1. Proiect 101061755 — SCIENCE4FUTURE-II HORIZON-MSCA-2022-CITIZENS-01, Term: 01.04.2022-31.01.2024.



2. Project CNFIS-FDI-2021-0270: "The Open University - counseling and support for career development, in the spirit of social equity, through the lens of student-centered education (The Open University)", project director: Prof.Dr.Ing. Diana Popescu, Mentor, September 2021-November 2021
3. Contract CNFIS-FDI-2020-0573, Project Director: Prof.Dr.Ing. Cornel Ciupan, - design expert, August-December 2020
4. PROJECT: Progress and development through post-doctoral research and innovation in engineering and applied sciences – PRiDE Contract no. POSDRU/89/1.5/S/57083, postdoctoral researcher, June 2010-September 2012.
5. Program Code CNFIS: 15-1/99 "Foundation and development of the interdisciplinary specialization Product Design Engineering at the level of European standards", duration: Jan. 2000-Sept. 2002, program financed by the World Bank, secretary
6. Leonardo da Vinci program, code: RO/99/2/07268 with the title "Regional center for expertise and continuous training in material recycling and environmental protection", duration: dec. 1999-May 2001 research assistant.
7. PHARE program code: RO 9807.01.01.02.0158 "Center for applied research and consultancy in competitive development", duration: Jan. 2000-Oct. 2001, research assistant.

Contracts with industries:

1. Project manager - Contract no. 18157/16.06.2022 - Design and scanning of candle support molds.

Team member in the following contracts with industries:

2. I. Blebea; R. Florea; D. Rus, **C Dobocan**; Pop C-tin. Alex., Environmental assessment level I, Cluj County Roads Autonomous Administration, Cluj-Napoca, str. Traian Vuia, no. 216, 32/08.03. 2007
3. I. Blebea; R. Florea; D. Rus, **C Dobocan**; Pop C-tin. Alex, Environmental Impact Assessment Study, S.C. Samus constructii S.A., Dej, str. Vaii, no. 2, 71/04.06. 2007
4. I. Blebea; R. Florea; D. Rus, **C Dobocan**; Pop C-tin. Alex, Documentation for obtaining the integrated environmental agreement, S.C. Betak S.A., Cluj Napoca, B-dul Muncii, no. No. 16, 70/04.06. 2007
5. I. Blebea; R. Florea; D. Rus, **C Dobocan**; Pop C-tin. Alex, Level I Environmental Assessment, Cluj County Roads Autonomous Administration, Cluj-Napoca, Traian Vuia str., no. 216, 72/04.06. 2007
6. I. Blebea; R. Florea; D. Rus, **C Dobocan**; Pop C-tin. Alex., Documentation for obtaining the environmental agreement, S.C. Izo Tec S.R.L., Dej, str. 1 Mai, no. 134, 92/09.07.2007



7. I. Blebea; R. Florea; D. Rus, **C Dobocan**; Pop C-tin. Alex., Documentation for obtaining the environmental agreement, Cluj County Roads Authority, Cluj-Napoca, Traian Vuia str., no. 216, 129.29.11. 2007

8. I. Blebea; R. Florea; D. Rus, **C Dobocan**; Pop C-tin. Alex., Documentation for obtaining the environmental agreement, S.C. Metalic Plas S.R.L., Dej, str. 1 Mai, no. 134, 140.17.12.2007.

Date:

30.12.2023

Signature

