



## PERSONAL INFORMATION

# Carmen Bujoreanu



Technical University "Gheorghe Asachi" lasi, Mechanical Engineering Faculty

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## WORKPLACE

Technical University "Gheorghe Asachi" of Iasi, Faculty of Mechanical Engineering, Department of Mechanical Engineering, Mechatronics and Robotics (I.M.M.R.), 43 Prof. Dimitrie Mangeron Blvd., Iași, 700050

## PROFESSIONAL EXPERIENCE

2016 – present **Professor** 

Technical University "Gheorghe Asachi" of Iasi, Faculty of Mechanical Engineering, Department of Mechanical Engineering, Mechatronics and Robotics (I.M.M.R.)

Associate Professor

Technical University "Gheorghe Asachi" of Iasi, Faculty of Mechanical Engineering, Department of Mechanical Engineering, Mechatronics and Robotics (I.M.M.R.)

2002 -2009 Lecture

Technical University "Gheorghe Asachi" of Iasi, Faculty of Mechanical Engineering,

Department of Machine parts and Tribology (O.M.T.)

Ph.D. Student and assistant professor

Technical University "Gheorghe Asachi" of Iasi, Faculty of Mechanical Engineering,

Department of Machine parts and Tribology (O.M.T.)

Activities and main responsabilities: educational activities; scientific research; institutional activities

1983 -1988 Design engineer

Heavy Equipment Factory (Fortus) Iasi

Activities and main responsabilities: production and research activities in the field of machine

tools.

## **EDUCATION AND TRAINING**

2017 – present Habilitated professor

PhD supervisor in the field of Mechanical Engineering (O.M. 4147/21.06 2017). Thesis title:

Research and achievements in the analysis and monitoring of mechanical systems

2011 – 2013 Master's degree in "Energy conversion and motion control", diploma no. 2818/22.09.2014

Achieved competences: Robust control of systems, Adaptive control of systems, Robot control

algorithms, Advanced electromagnetic and electromechanical systems.

Technical University "Gheorghe Asachi" of Iasi, Faculty of Electrical Engineering, Energy and Applied

Informatics

Ph.D. in Mechanical engineering, diploma 1616/15.05.2003

1998 – 2003 Thesis title: Studies and research on the scuffing of elements in rolling contacts, with applications to

bearings

Technical University "Gheorghe Asachi" of Iasi, Mechanical Engineering Faculty.

1978 – 1983 Bachelor's degree in Mechanical Engineering (head of class)

Technical University Gh. Asachi Iaşi, Faculty of Machine Manufacturing, Department of Machine Tools

(M.U.S.)

Achieved competences: Mathematics, Technical drawing, Machine parts, Strength of materials,

Design of machine tools, Programming, Control of mechanical processes.

1974 -1978 Baccalaureate Diploma - "Roman -Voda" High School, Roman, Neamţ

The special mathematics-physics class;

**Achieved competences**: mathematics, physics and general culture.



#### PERSONAL SKILLS

## Native language

#### Romanian

## Other language(s)

**French** 

**English** 

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
C1	C2	C2	C2	C2
B1	B1	B1	B1	B1

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

#### Communication skills

• Good communication and mediator skills; Power of argumentation; Intuition; Flexibility They are acquired through experience of teaching various subjects in over 35 years of professional experience.

#### Organisational / managerial skills

- Vice-dean in charge of scientific research (2020 2024)
- Organization of courses, workshops and international conferences (Comefim'9, Rotrib'10, ACME 2012, 2014, 2016, 2018, 2020, 2022, 2024);
- Guiding and organizing the activity of Erasmus students from the Faculty of Mechanics from 2008 until now (team member);
- Activation in the scientific research committee and the international relations and university image committee of the Faculty Council (member of the Faculty Council from 2008);
- Preparation of internal self-evaluation files for newly established programs (Bachelor's Mechatronics specializations and Advanced Mechatronics Master's) and those ongoing beginning with 2020

## Social skills and competences

Responsibility; Discipline and punctuality; Focus on objectives and results; Intercultural adaptability;
 Proactive, positive attitude and involvement; Team spirit.

# Computer skills

- knowledge of working with computers (Internet, e-mail, Microsoft Office, Adobe editor)
- programmer in the following languages: LabVIEW, MathCAD, SolidWorks, AutoCAD.

#### Professional skills

• Rigor; Critical spirit of synthesis and analysis; Seriousness

## Fields of expertise

- Mechanical and mechatronic systems;
- Tribo-modelling of Hertzian contacts;
- Dynamics and kinematics of bearings;
- Experimental data acquisitions and processing;
- Noise and vibration
- Vibroacoustic diagnostics of systems;
- Advanced computer design.

## ADDITIONAL INFORMATION

#### **Awards**

- UEFISCDI (PRECISI 2014-7680) award, 2014, for paper: Iuliana Rotaru, Carmen Bujoreanu, Adrian Bele, Maria Cazacu, Dumitru Olaru, Experimental testing on free vibration behaviour for silicone rubbers proposed within lumbar disc prosthesis, Materials Science and Engineering: C, Volume 42, (2014), 192-198.
- UEFISCDI (PRECISI-2017-21673) award, 2017, for paper: Bujoreanu C, Nedeff F., Benchea M., Agop M, Experimental and theoretical considerations on sound absorption performance of waste materials including the effect of backing plates, Applied Acoustics 119 (2017) 88-93.
- UEFISCDI (Precisi-2018-26689) award, 2018, for paper: Bujoreanu C\*, Irimiciuc S, Benchea M, Nedeff F, Agop M, A fractal approach of the sound absorption behaviour of materials. Theoretical and experimental aspects, International Journal of Non-Linear Mechanics, 103 (2018) 128-137
- UEFISCDI (PRECISI -2019-30882) award, 2019, for paper: Oancea I, Bujoreanu C; Budescu M, Benchea M, Gradinaru CM, Considerations on sound absorption coefficient of sustainable concrete with different waste Journal of Cleaner Production 203 (2018) 301-312.





#### Projects / Publications

- 37 research projects, being project director for 12 contracts (3 national research grants and 9 contracts with economic agents);
- 5 books published in recognized publishing houses (2 specialized books and 3 didactic books as sole author);
- 4 didactic guidelines published in recognized publishing houses and on the web.
- 110 scientific articles published as follows:: in WOS journals/volumes (32); in BDI journals/volumes (Scopus, Google Scholar, Ebsco, etc.) (49); in non-indexed magazines/volumes (29). I mention that in 80 works I am first author or corresponding author.
  In addition, it should be noted the participation in European projects:
- Leonardo da Vinci program contract no. RO/2003/PL91229EX with the subject: Engineering training of mechatronic type a necessity for the informational society, 2004.
- Contract POSDRU/87/1.3/S/64069 FLEXFORM Flexible professional training program on mechatronic platforms, 2010-2013.
- Project 2SOFT/1.1/64/2020 within the program "Joint Operational Program Romania Republic of Moldova 2014 - 2020" financed by ENI CBC - Cross border cooperation in mechatronics engineering education, acronym CBCinMEE

#### Citations

over 400 citations in: WOS journals (163 citations), BDI and Ph.D. theses

## Invitations/Specializations

- Erasmus program at I.U.T Béthune, Université d'Artois, France (2011, 2012, 2014, 2015).
- Erasmus Program at the Technical University of Lisbon, Portugal (2019)
- Specialization in the field of organization in co-supervision of a master's degree in the field of mechatronics at the National Taiwan University of Science and Technology (2010).
- ISCIR authorized trainer diploma for lifting installations (2009) and reauthorization (2013).
- Trainer course and obtaining the graduation certificate issued by CNFPA (2009).
- Specialization at the Festo company (Germany) within the Leonardo da Vinci Program contract no. RO/2003/PL91229EX- 2004 with the theme: Engineering training of mechatronic type – a necessity for the informational society.
- Completion of the course of Internal Auditors in the field of Quality Management System ISO 9001:2000, June 2003, organized by the Simtex SA Certification Body Bucharest.
- Scholarship at the Institut National des Sciences Appliquées, Laboratoire de Mécanique des Contacts, Lyon (France) - in April-June 1999 under international grant no. 191/1997-1999 with the World Bank

## Memberships

- Romanian Association of Tribology (ART) member
- Romanian Association of Mechanical Transmissions (ROAMET), member
- Member of the professional associations Romanian Mechatronics Society SROMECA, and AMIS

#### References

- Reviewer for WoS journals: ADVANCES IN MECHANICAL ENGINEERING journal, FI= 1,161 (more than 24 reviews- ID-AME 19-0185, 0185R, AME-19- 2112, 2112R, AME-19-1974, 1074R, AME-19-1651, 1651R, AME- 19-2178, 2178R)
- Reviewer for the EUROPEAN JOURNAL OF WOOD AND WOOD PRODUCTS, FI=1.901 (2 reviews-HARW-D-19-00372, 00372R)
- Reviewer for University Politehnica of Bucharest Scientific Bulletin-Series A FI =0 (10 reports 7044R, 7144R, 7151R, 7878R, 8087,8828,9064,9080,9303,9841)

# https://publons.com/researcher/1398564/carmen-bujoreanu/peer-review/

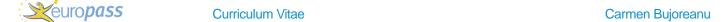
Reviewer at international conferences: (more than 40 papers) ICIENG 2022, 2024, Portugal; DIPRE
 Galati; ACME - Iasi, 2008 -2024; ROTRIB - Romania, 2010-2024; IMANE - Romania 2015-2024, etc

#### Member of editorialboards

Advances in Mechanical Engineering, IF=1.161/2020 - Associate editor <a href="https://journals.sagepub.com/editorial-board/ade">https://journals.sagepub.com/editorial-board/ade</a>

# Member of scientific committees of international conferences

- Member of the scientific committee of international conferences: IManE from 2015 to 2024, ACME 2018 to 2024
- Member of the Scientific Evaluation Committee for the awarding of prizes beginning with 2015 until
  now for the Best Young Romanian Researchers in Science and Engineering organized by Prof.
  Rada Mihalcea (USA in the top 100 researchers) and the City Hall Cluj-Napoca municipality,
  http://www.primariaclujnapoca.ro/Premiul-Tineri-Cercetatori-in-Stiinta-si-Inginerie.html.
- Chairperson at sections of international conferences: Tehnomus 2015, ACME 2014 to 2024, IManE 2015, ImanEE 2017, ImanEE 2018



# Other projects

Teaching courses in the field of professional training and retraining of adults (from 2007-present) in the mechanical field, through:

- Carmen Bujoreanu, professional training manual in the occupation Code NC: 8332.2.1 "Road and
- earthwork machinist", Ed. PIM, Iaşi, (2012), 106 pg;
   POSDRU/108/2.3/G/83119, "Qualification for change" qualifies employees through continuous professional training, Beneficiary: S.C. METATECH-EDUCATION S.R.L. lasi, Period: 2010-2013, team member.

References and appendices can be provided upon request: ID orcid.org/0000-0002-5680-2788 WOS Researcher ID: AAM-1765-2020 Scopus author ID: 6508070033 Publons.com/a/1398564

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