

PERSONAL INFORMATION

Elena EFTIMIE

✉ eftimie@unitbv.ro

POSITION
IOSUD UTBV

PhD Coordinator
Doctoral studies field: Mechanical Engineering
Since 2006

EXPERTISE FIELD AND
RESEARCH INTEREST AREAS

Mechanical Engineering: Mechanical Transmissions

WORK EXPERIENCE

2006 - present

Professor

Transilvania University of Braşov, 29 Eroilor Boulevard, 500036, Braşov (www.unitbv.ro)

- Doctoral leadership
- Teaching activities - Education, Higher Education

1992 - 2006

Assistant (1992), Lecturer (1999), Senior Lecturer (2003)

Transilvania University of Brasov, 29 Eroilor Boulevard, 500036 Braşov (www.unitbv.ro)

- Didactic and research activities in mechanical engineering - Education, Higher Education

EDUCATION AND TRAINING

2002

Graduate degree

Transilvania University of Brasov, 29 Eroilor Boulevard, 500036 Braşov (www.unitbv.ro)

- Level in national or international classification: Postgraduate course
- Specialisation Applied Computer Science in Engineering

1996 – 2000

Doctor Engineer (Magna Cum Laude) (MAGNA CUM LAUDE)

Transilvania University of Brasov, 29 Eroilor Boulevard, 500036 Braşov (www.unitbv.ro)

- Level in national or international classification: Postgraduate training through doctorate
- Name of the Ph.D. thesis: Researches concerning the functional performances of the safety intermittent automatic clutches

1987-1992

Engineer in Industrial Engineering, Industrial Manufacturing Engineering Faculty, Specialisation: Industrial Manufacturing Engineering.

Transilvania University of Brasov, 29 Eroilor Boulevard, 500036 Braşov (www.unitbv.ro)

- Level in national or international classification: Bachelor's degree
- Diversified skills in the field of Industrial Engineering

PERSONAL SKILLS

Mother tongue(s)

Romania

Other language(s)

English

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
B2	C1	B2	B2	C1
Certificate of linguistic competence. Level B2 of the Common European Framework of reference of the Council of Europe.				

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
[Common European Framework of Reference for Languages](#)

Communication skills Good communication skills acquired through:

- own experience as university professor
- participation at international conferences (International Conference on the Theory of Machines and Mechanisms, September 2000 - Liberec, Czech Republic; International Symposium MACHINES AND MECHANISMS, Belgrade, Yugoslavia, 2-5 September 1997; International Computer Science Conference - microCAD99, Miskolc, 24-25 February 1999; International Computer Science Conference - microCAD2000, Miskolc, 23-24 February 2000)
- visiting professor: Small Scale Renewable Energy Sources & Energy Saving, Technological Educational Institute of Crete, Chania, Greece
- plenary speaker: Turbidity Determination using Solar Broadband Models, 3rd International Conference on ENVIRONMENTAL and GEOLOGICAL SCIENCE and ENGINEERING (EG '10)

Organisational / managerial skills Capacities to coordinate research teams and manage projects / grants obtained through competition:

- 2006-2007: Project Director, CNCSIS Research Grant, Type A Project, CNCSIS Code 401, "Mathematical Modelling and Functional Simulation of Safety Clutches"

Job-related skills

- Information technology, Modelling of climatic parameters (solar radiation), Energy simulation of buildings

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

Levels: Basic user - Independent user - Proficient user
[Digital competences - Self-assessment grid](#)

- good command of office suite (word processor, spread sheet, presentation software)
- good knowledge of database management systems (Visual FoxPro)
- object oriented programming (Visual C #, Delphi)
- graphics, simulation and animation tools (AutoCAD, 3ds Max)
- building energy simulation tools (Trnsys)
- good command of office applications (Microsoft Office)

ADDITIONAL INFORMATION

Publications 7 monographs as the first and only author
 72 scientific articles as the first and only author

Presentations Plenary Speaker, Turbidity Determination using Solar Broadband Models, 3rd International Conference on ENVIRONMENTAL and GEOLOGICAL SCIENCE and ENGINEERING (EG '10), Constanța Maritime University, Constanța, Romania, 2010.
<http://www.wseas.us/books/2010/Constanza/EG.pdf>

Projects Mobility in the frame of TEMPUS JEP 3077-94 – “Program for Developing the Teaching of Computer Aided Engineering and Robotics”. Heriot-Watt University from Edinburgh, United Kingdom
 Academic Project: The Development of AutoCAD as a Teaching Tool.

Conferences Lectures for industrial partners: "Total Quality Management" and "The Goal - a New Way of Thinking about Manufacturing Management"

Seminars Number of approved PhD titles and grades: 2
 Teaching Professor, 6-17 July, RESchool 2009, Technological Educational Institute of Crete, Chania, Greece

Memberships Member of Romanian Association of Mechanical Transmission (ROAMET)
 Member of Romanian Association of Mechanisms and Machines Science (ARoTMM)

Citations 24 citations in the Web of Science and SCOPUS publications

H Indexes HISI index: 2, HScopus index: 2, HGS index: 6

ANNEXES

LIST OF RELEVANT PUBLICATIONS /RESEARCH (selection)

- Eftimie E. Estimation of Real-Sky Global and Diffuse Radiation for Braşov Urban Area, ROMANIA. Environmental Engineering & Management Journal (EEMJ), vol. 17, No. 3, March 2018, pp. 2813-2826, ISSN: 1582-9596. http://www.eemj.icpm.tuiasi.ro/pdfs/vol17/no3/17_47_Eftimie_14.pdf
- Coste, L., Eftimie, E. Solar Irradiance Estimation for Braşov Urban Area. Environmental Engineering and Management Journal. Vol. 10, No. 2, February 2011, pp. 277-283, ISSN 1582-9596. http://www.eemj.icpm.tuiasi.ro/pdfs/vol10/no2/18_97_Coste_11.pdf
- Eftimie, E. Beam Horizontal Irradiance Simulation for Braşov Urban Area - Clear Sky Model, in the Book "Advances in Environmental & Geological Science & Engineering", Proceedings of the 2nd International Conference on ENVIRONMENTAL and GEOLOGICAL SCIENCE and ENGINEERING (EG '09), Brasov, Romania, September 24-26, 2009, pp. 224-229, ISSN: 1790-2769. <http://www.wseas.us/e-library/conferences/2009/brasov/EG/EG37.pdf>
- Eftimie, E. Radiative Parameters Specific to Braşov Urban Area, in the Book "Recent Advances in Environment, Ecosystems and Development", 2009, pp. 208-211, ISSN: 1790-5095. <http://www.wseas.us/e-library/conferences/2009/tenerife/EED/EED-35.pdf>
- Eftimie, E. Turbidity Determination Using Solar Broadband Models, in the Book "ADVANCES in MARITIME and NAVAL SCIENCE and ENGINEERING", pp. 144-149, ISSN: 1792-4707. <http://www.wseas.us/e-library/conferences/2010/Constantza/MN/MN-26.pdf>
- Ciobanu D., Eftimie E., Jaliu C. The Influence of Measured/simulated Weather Data on Evaluating the Energy Need in Buildings. Proceedings of the 2nd International Conference on Solar Heating and Cooling for Buildings and Industry (SHC 2013). Energy Procedia, Volume 48, 2014, pp. 796–805. <http://www.sciencedirect.com/science/article/pii/S1876610214003543>
- Eftimie E. Energy Efficiency Analysis in Buildings using Dynamic Simulations, European Journal of Engineering Research and & Science, Vol. 2, No. 5, May 2017, pp. 1-12, ISSN: 2506-8016. <https://www.ejers.org/index.php/ejers/article/view/325/149>
- Eftimie E. Estimation of real-sky daily solar irradiation Case study: Braşov, Romania, International Journal of Energy and Environment, Volume 7, Issue 4, 2016, pp.327-346. http://www.ijee.ieefoundation.org/vol7/issue4/IJEE_06_v7n4.pdf
- Eftimie E. Costing energy efficiency improvements in buildings Case study: Braşov, Romania, International Journal of Energy and Environment, Volume 6, Issue 1, 2015 pp.47-605. https://www.ijee.ieefoundation.org/vol6/issue1/IJEE_05_v6n1.pdf
- Eftimie E. Computer Simulation of the Cutting by Generation of Polygonal Profiles. International Journal of Science and Engineering Investigations. Volume 4, Issue 38, March 2015. <http://www.ijsei.com/papers/ijsei-43815-01.pdf>
- Eftimie E. Wind Characteristics and Wind Potential Assessment for Braşov Region, Romania, International Journal of Science and Engineering Investigations, vol. 3, issue 27, April 2014, pp. 1-9. <http://www.ijsei.com/papers/ijsei-32714-01.pdf>
- Eftimie E., Eftimie N. Assessment of wind resources in Braşov region (Romania), International Journal of Energy and Environment, Volume 5, Issue 4, 2014, pp. 447-460. http://www.ijee.ieefoundation.org/vol5/issue4/IJEE_04_v5n4.pdf
- Eftimie E. Simple clutches with multiple functions. Machine Design, vol. 5(2013) No. 1, p. 61-64. <http://www.mdesign.ftn.uns.ac.rs/download/v5n1/p9.pdf>
- Eftimie E. Energy simulation of a solar thermal system for domestic hot water and space heating. RECENT, Vol. 14 (2013), no. 4(40), November 2013, pp. 255-262. <http://www.recentonline.ro/040/Eftimie-R40.pdf>
- Eftimie E. Solar radiation estimation under clear sky conditions for Braşov urban area (Romania) – Linke turbidity factor, RECENT, Vol. 13 (2012), no. 2(35), July 2012, pp. 162-166. http://www.recentonline.ro/035/Eftimie_R35.pdf
- Eftimie E. Solar radiation estimation under clear sky conditions for Braşov urban area (Romania) – Models performance estimation, RECENT, Vol. 13 (2012), no. 3(36), November 2012, pp. 273-278. http://www.recentonline.ro/036/Eftimie_E-R36.pdf
- Eftimie, E., Eftimie, N. Shape Modelling. "Transilvania" University Publishing, Braşov, 2003. ISBN 973-635-217-X
- Eftimie E. Shapes Generation. "Transilvania" University Publishing, Brasov, 2005. ISBN 973-635-516-0
- Eftimie E. Mathematical modelling and functional simulation of safety clutches. "Transilvania" University Publishing, Brasov, 2007. ISBN 978-973-598-048-1

Eftimie E. Database. "Transilvania" University Publishing, Brasov, 2007. ISBN 978-973-598-125-9
Eftimie E. Applications of shape modelling. "Transilvania" University Publishing, Brasov, 2009. ISBN 978-973-598-458-8
Eftimie E. Animatia asistata de calculator. "Transilvania" University Publishing, Brasov, 2016. ISBN 978-606-19-0760-1

Prof.Dr.Eng. Elena Eftimie

Signature