






PERSONAL INFORMATION

Botiș Marius Florin



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Sex male | Date of birth | Nationality romanian

CURRENT POSITION AND JOB

Associate professor/University Transilvania Brasov
/ Faculty of Civil Engineering/ Department of Civil Engineering

PROFESSIONAL EXPERIENCE

Occupation or position held

- 1994 -1999 Project engineer **Sterom Câmpina** at the Research Design workshop;
- 2001 Documentation scholarship - Aachen Germania **Institut für Bergwerks und Hüttenmaschinenkunde-Reheinish-Westfälische Technische Hochschule** at the invitation **prof.dr.ing. Rainer Hünefeld**;
- 2010 Documentation scholarship **Fachhochschule Konstanz Germania** at the invitation **prof.dr.ing. Kuhar Peter**;
- 2015 Visiting Professor la **Tianjin University -China** at the invitation **prof.dr.ing.Huaiwen Wang**;
- 2019 Teaching mobility Erasmus to **University Cadi Ayyad din Marrakech-Maroc** at the invitation **prof.dr.ing. Mustafa Benyoucef**.

EDUCATION AND TRAINING

- 1982 -1986 Liceul industrial nr.2 Câmpina;
- 1989 -1993 Faculty of Engineering and Management of Technological Systems - București. Bachelor's degree in Mechanical Engineering;
- 1999- assistant professor at the Department of Strength of Materials and Vibrations at Transilvania University Brasov;
- 2002- lecturer at the Department of Strength of Materials and Vibration at Transilvania University Brasov;
- 2004- obtain the title of doctor with the paper - Structural and shape optimization of parts with complex configuration on criteria of strength and rigidity;
- 2004-2007- Faculty of Civil Engineering at Transilvania University Brasov. Bachelor's degree in Civil Engineering;
- 2009 -2020- associate professor at Transilvania University Brasov - Faculty of Civil Engineering.

PERSONAL COMPETENCE

Language maternal romanian

Other known foreign languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Conversation	Oral speech	
English	B1	B1	B1	B1	C1
German	A1	A1	A1	A1	A1

Niveluri: A1/2: Elementary user - B1/2: independent user - C1/2: Experienced user
Common European Framework of Reference for Languages

Communication skills	-good communication skills acquired through the coordination of the Civil Engineering department ; -the ability to interact through communication used in the two research projects in which I was director;
Organizational / managerial skills	- 2012-2019 Head of Civil Engineering; - coordinator of two research contracts and member of a research contract;
Skills acquired in the workplace	- teaching skills course Strength of materials ; - teaching skills course dynamics and earthquake engineering ; - skills in the use of devices for carrying out laboratory work of Strength of materials ; - skills in using devices for laboratory work dynamics and earthquake engineering;
Computer skills	1. Skills in using the programs CAD: - Autocad; - Allplan; - Tekla Structures. 2.Skills in using the programs FEA: -Etabs; -SAP2000; -Abaqus; -Ansys. 3. Skills in using the programming environment: -Matlab. 4. Using the Digital image correlation program (DIC) : - LaVision 5. Good knowledge of tools: -Microsoft Office™ (Word, Excel)
Other skills	- Vibration absorbers type TMD and TLCD used in civil buildings. - Isolation of the base for civil structures. - Numerical methods based on heuristic algorithms type: <ul style="list-style-type: none">• genetic algorithms;• logică fuzzy;• neural networks;• simulated annealing; - Using virtual reality (VR) and augmented reality (AR) as a means of teaching.
Driver's license	B

INFORMATII SUPLIMENTARE

Publications

Articles (BDI, ISI Proceeding și ISI Journal Core) selected from the last 5 years:

1. Cerbu, C., **Botiș, M.**, (2016). **Numerical Modeling of the Flax / Glass / Epoxy Hybrid Composite Materials in Bending**. The 10th International Conference Inter-Eng Interdisciplinarity in Engineering pag 308-315. <https://doi.org/10.1016/j.proeng.2017.02.394>.
2. Dosa A., **Botiș M.**, Imre I., (2018) **A study of a tensegrity structure for a cylindrical roof**. The 6th Contemporary achievements in civil engineering 20. April 2018. Subotica, Serbia. DOI: [10.14415/konferencijaGFS2018.005](https://doi.org/10.14415/konferencijaGFS2018.005).
3. **Botiș, M.**, Dosa, A. (2020). **Comparative study statically determined trusses with trapezoidal and parabolic shape with large span**. IOP Conf. Series: Materials Science and Engineering 789 (2020) 012006. <https://iopscience.iop.org/article/10.1088/1757-899X/789/1/012006>.
4. **Botiș, M.**, Cerbu, C. (2020). **A Method for Reducing of the Overall Torsion for Reinforced Concrete Multi-Storey Irregular Structures**. Applied Sciences Journal, Appl. Sci. 2020, 10(16), 5555; <https://doi.org/10.3390/app10165555>.
5. Cerbu C., Wang H., **Botiș M.**, F., Huang Z., Pleșcan C., (2020) **Temperature effects on the mechanical properties of hybrid composites reinforced with vegetable and glass fibers**. Journal Mechanics of Materials Elsevier Volume 149. <https://doi.org/10.1016/j.mechmat.2020.103538>.
6. Pleșcan, C. Pleșcan, E., Stanciu M., **Botiș M.F.**, Taus D., (2021). **Sensitivity Analysis of Rigid Pavement Design Based on Semi-Empirical Methods: Romanian Case Study**. Symmetry Journal Volume 13 (162). <https://doi.org/10.3390/sym13020168>.

Published books:

1. Curtu, I., Cerbu, C., Ciofoaia, V., **Botiș, M.**, Kuchar, P., Repanovici, A., – **Rezistența materialelor. Probleme, vol.1**. Editura Infomarket Brașov, 2001. ISBN 973-8204-16-X, 304 pagini.
2. Curtu, I., Kuchar, P., Ciofoaia, V., Repanovici, A., Cerbu, C., **Botiș, M.**, – **Rezistența materialelor. Probleme, vol.2**. Editura Infomarket Brașov, 2002, ISBN 973-8204-40-2 554 pagini.
3. Curtu, I., Ciofoaia, V., Kuchar, P., Cerbu, C., **Botiș, M.**, Repanovici, A., – **Rezistența materialelor. Probleme, vol.3**. Editura Infomarket Brașov, 2003 ISBN 973-8204-51-8 564 pagini.
4. **Botiș, M.**, **Metoda elementelor finite**. Editura Napoca-Star-2005. ISBN 973-635-443-1, 312 pagini.
5. **Botiș, M.**, Comănici M. **Metode numerice pentru ingineri**. Editura Napoca-Star-2006. ISBN 978-647-366-X, 150 pagini.
6. **Botiș, M.**, **Dinamica structurilor și inginerie seismică**. Editura Napoca-Star-2009. ISBN 978-978-973-647-648-8, 156 pagini.
7. **Botiș M.**, **The finite element method**. Publishing house Napoca-Star-2010. ISBN 978-973-647-749-2, 287 pagini.
8. **Botiș, M.**, **Aplicații în analiza dinamică a structurilor vol.1**. Editura Napoca-Star-2013. ISBN 978-973-647-943-4, 134 pagini.
9. **Botiș, M.**, **Aplicații în analiza dinamică a structurilor vol.2**. Editura Napoca-Star-2013. ISBN 978-606-690-047-8, 202 pagini.
10. **Botiș M.**, **Analiza numerică a spectrelor de răspuns elastic în cazul acțiunilor seismice**. Editura Napoca-Star-2013. ISBN 978-606-690-065-2, 23 pagini.
11. **Botiș, M.**, **Aplicații în analiza dinamică a structurilor vol.3**. Editura Napoca-Star-2014. ISBN 978-606-690-176-5, 113 pagini.
12. **Botiș, M.**, **Calculul structurilor de bare articulate plane și spațiale în formulare matriceală**. Editura Napoca-Star-2015. ISBN 978-606-690-370-7, 136 pagini.
13. **Botiș, M.**, **Modelarea și simularea numerică a caracteristicilor masice pentru corpuri cu configurație complexă în Matlab**. Editura Napoca-Star-2019. ISBN 978-606-690-998-3, 67 pagini.

Projects

1. Contracts won through national competition or at the level of the economic environment in which I was contract director :
 - Exploratory research project IDEI CNCSIS 2009-2011 - cod 726 - with the title : **Modeling, optimization and testing of wind turbines with dynamic absorbers to reduce side effects from wind and earthquake and material fatigue** .
 - Scientific research contract with third parties Nr.18599/21.12.2018 with the title : **Static analysis of a structure with geometric rigidity** .
2. Contracts in which I participated as a member :
 - Grant type AT, cod 132 CNCSIS, Nr. contract : 4GR /28.05.2007 – **Research on the preservation of the mechanical characteristics of composite materials with polymeric matrix required in a corrosive environment with variations in temperature and humidity** .
 - Subcontract Matnatech nr 24/21.12.2001 - Lignocellulosic material thermoformed .
3. List of significant design works within University Transilvania Brasov
 - **Buildings with spaces for accommodation on the university campus Brasov- Doctoral student home S+P+4E, Master students home S+P+3E și Atrium** project manager Marius Florin Botiș;
 - **Solar platform Brasov –Zwickau-** project manager Marius Florin Botiș;
 - **Wind installation on the hill of University Transilvania Brasov** - project manager Marius Florin Botiș.

