

PERSONAL INFORMATION

Botiș Marius Florin



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Sex male | Date of birth 31/03/1968 | 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-Reheinisch-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., **Botis, 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., **Botis, M.**, – **Rezistența materialelor. Probleme, vol.2**. Editura Editura Infomarket Brașov, 2002, ISBN 973-8204-40-2 554 pagini.
3. Curtu, I., Ciofoaia, V., Kuchar, P., Cerbu, C., **Botis, M.**, Repanovici, A., – **Rezistența materialelor. Probleme, vol.3**. Editura Editura Infomarket Brașov, 2003 ISBN 973-8204-51-8 564 pagini..
4. **Botis, M.**, **Metoda elementelor finite**. Editura Napoca-Star-2005. ISBN 973-635-443-1, 312 pagini.
5. **Botis, M.**, Comănici M. **Metode numerice pentru ingineri** . Editura Napoca-Star-2006. ISBN 978-647-366-X, 150 pagini.
6. **Botis, 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 ISBN 978-973-647-749-2, 287 pagini.
8. **Botis, M.**, **Aplicații în analiza dinamică a structurilor vol.1**. Editura Napoca-Star-2013. ISBN 978-973-647-943-4, 134 pagini.
9. **Botis, 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. **Botis, M.**, **Aplicații în analiza dinamică a structurilor vol.3**. Editura Napoca-Star-2014. ISBN 978-606-690-176-5, 113 pagini.
12. **Botis, 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. **Botis, 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.

