



## LISTA DE LUCRĂRI

**Asist. dr. ing. Mihaela Violeta MUNTEANU**

Universitatea Transilvania din Braşov

Facultatea de Inginerie Mecanică

Departamentul de Inginerie Mecanică

**Concurs Şef de Lucrări poziția 34**

**Departamentul de Inginerie Mecanică**

Disciplinele postului REZISTENȚA MATERIALELOR,  
ANALIZA NELINIARĂ A SOLIDELOR DEFORMABILE,  
MECANICĂ,  
COMUNICARE ȘI SCRIERE ACADEMICĂ,  
ELEMENTE AVANSATE DE PROIECTARE– CAD,  
MECANICA FLUIDELOR ȘI ECHIPAMENTE HIDRAULICE

### LISTA CELOR 10 LUCRĂRI CONSIDERATE A FI CELE MAI RELEVANTE PENTRU REALIZĂRILE PROFESIONALE:

1. M.V. Munteanu, M. Mihălcică, C. Itu, S. Vlase, M.L. Scutaru, *Mechanical design of interaction chamber for the ELIAD array at ELI-NP*, AIP Advances, Vol 10, nr. 2, AIP Publishing LLC, pp. 025129, 2020, ISSN 2158-3226, (FI=1.579, SRI =1.060) (publicat on-line), <https://aip.scitation.org/doi/10.1063/1.5129317>
2. Stanciu M.D., Bucur V., Munteanu M.V., Georgescu S.V., Năstac S.M., *Moisture induced deformation in the neck of a classical guitar*, in Holzforschung, 2019, Vol 73(4):371-379, ISSN: 1437-434X (FI=2.579, SRI=2.177); <https://www.degruyter.com/view/journals/hfsg/73/4/article-p371.xml>
3. A. Modrea, M.V. Munteanu, I. Pruncu, *Using the Symmetries in the Civil Engineering. An overview*, Procedia Manufacturing 46 (2020) 906–913, 13th International Conference Interdisciplinarity in Engineering, INTER-ENG 2019, 3–4 October 2019, Targu Mures, Romania, <https://doi.org/10.1016/j.promfg.2020.05.007>
4. M.V. Munteanu, M.D. Stanciu, S. Vlase, *Image Correlation to Predict the Gait Recovery of Patients in the Post-Surgery Period*, Procedia Manufacturing 46 (2020) 499–508, 13th International Conference Interdisciplinarity in Engineering, INTER-ENG 2019, 3–4 October 2019, Targu Mures, Romania, <https://doi.org/10.1016/j.promfg.2020.03.072>



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6. **M.V. Munteanu**, M.D. Stanciu, S.M. Năstac, A. Savin, *Modal analysis of small turbine blade made from glass fibres composites*, The 8th International Conference on Advanced Concepts in Mechanical Engineering – ACME 2018, Materials Science and Engineering, June 07 – 08, 2018  
<http://iopscience.iop.org/issue/1757-899X/444/6>  
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7. Mircea Mihalcica, Arina Modrea, **Violeta Munteanu**, Ioan Burca, *Tracking Kinematic Gait Parameters During the Recovery of Motor Function After Total Knee Arthroplasty*, 9th International Conference Interdisciplinarity in Engineering, INTER-ENG 2015, 8-9 October 2015, Tirgu Mures, Romania, [Volume 22](#), 2016, Pages 670-676,  
<https://www.sciencedirect.com/science/article/pii/S2212017316001419>  
<http://inter-eng.upm.ro/2015/proceedings.html>
8. **M.V. Munteanu**, *The dynamic model of the lower limb movement*, 40th International Conference on Mechanics of Solids, Acoustics and Vibrations & The 6th International Conference on Advanced Composite Materials Engineering, COMAT2016 & ICMSAV2016, Brasov, ROMANIA, 24-25 November 2016; COMAT 2016; pp. 405-408, ISSN 1844 – 9336;  
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9. M. Mihălcică, I. Burcă, **M.V. Munteanu**, *An Inexpensive Solution For Tracking the Knee Flexion Angle For Patients in Motor Recovery*, Palestrica of the Third Millennium Civilization and Sport – Vol. 16, No. 2, April – June 2015, p. 149–153, 2015, PALESTRICA MILENIULUI III- CIVILIZATIE SI SPORT/ PALESTRICA OF THE THIRD MILLENNIUM; 1582-1943;  
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**TEZA DE DOCTORAT**

Titlul tezei: **CONTRIBUȚII LA ANALIZA MIȘCĂRILOR CORPULUI UMAN CU APLICAȚII ÎN MEDICINA RECUPERATIVĂ**

Conducător științific: **prof.dr.ing.mat. Sorin Vlase**

Diploma de Doctor: **seria J, nr. 0003001**

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#### BREVETE DE INVENȚIE

Titlul brevetului: **A/ 00729/ 27.09.2018 STAND ȘI METODĂ DE TESTARE REOLOGICĂ A STRUCTURILOR DE CHITARĂ,**

Membrii: M.D. Stanciu, C. Coșereanu, C. Cerbu, **M.V. Munteanu**, S.V. Georgescu, S. Vlase

[https://worldwide.espacenet.com/publicationDetails/biblio?I1=1&ND=3&adjacent=true&locale=en\\_EP&FT=D&date=20190329&CC=RO&NR=133205A0&KC=A0](https://worldwide.espacenet.com/publicationDetails/biblio?I1=1&ND=3&adjacent=true&locale=en_EP&FT=D&date=20190329&CC=RO&NR=133205A0&KC=A0)

#### CĂRȚI ȘI CAPITOLE ÎN CĂRȚI

1. Mihai ULEA, **Mihaela Violeta MUNTEANU**, STATICA TEHNICĂ. APLICAȚII. ED. a III-a, Editura Universității Transilvania din Brașov, 2019, ISBN 978-606-19-1131-8, 198 pag,  
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8. Sorin VLASE, Simona LACHE, Horațiu TEODORESCU, Maria Luminița SCUTARU, Mircea MIHĂLCICĂ, **Violeta Mihaela MUNTEANU**, Probleme de mecanică. Statică, Editura Universității Transilvania din Brașov, ISBN: 978-606-19-0684-0, 2015, 175 pag,  
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11. Mihai ULEA, **Mihaela Violeta MUNTEANU**, *STATICA TEHNICĂ. APLICAȚII. ED. a II-a*, Editura Universității Transilvania din Brașov, 2014, ISBN 978-606-19-0511-9, 194 pag,  
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12. Eugenia SECARĂ, Maria Violeta GUIMAN, **Mihaela Violeta MUNTEANU**, MECANICA DINAMICĂ. CULEGERE DE POBLEME, Editura Universității Transilvania din Brașov, 2013, ISBN 978-606-19-0279-8, 349 pag,  
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[https://intranet.unitbv.ro/Portals/0/UserFiles/User52/dovada\\_culegere.pdf](https://intranet.unitbv.ro/Portals/0/UserFiles/User52/dovada_culegere.pdf)
14. Burcă, I., Tofan, M., Vlase, S., **Munteanu, M.V.**, *Biomecanica Mișcărilor Atletice*. Ed. Infomarket, 2009, 199 pag,  
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15. M. Ulea, R. Purcărea, V. Munteanu, Statică Tehnică. Aplicații, Editura Universității Transilvania din Brașov, Brașov, 2006, ISBN 978-973-635-772-5, 198 pag

## ARTICOLE/ STUDII IN EXTENSO, PUBLICATE ÎN REVISTE DIN FLUXUL ȘTIINȚIFIC INTERNAȚIONAL PRINCIPAL

1. **M.V. Munteanu**, M. Mihălcică, C. Itu, S. Vlase, M.L. Scutaru, *Mechanical design of interaction chamber for the ELI-DE array at ELI-NP*, AIP Advances, Vol 10, nr. 2, AIP Publishing LLC, pp. 025129, 2020, ISSN 2158-3226, (FI=1.579, SRI =1.060) (publicat on-line),  
<https://aip.scitation.org/doi/10.1063/1.5129317>
2. Stanciu M.D., Bucur V., **Munteanu M.V.**, Georgescu S.V., Năstac S.M., *Moisture induced deformation in the neck of a classical guitar*, in Holzforschung, 2019, Vol 73(4):371-379, ISSN: 1437-434X (FI=2.579, SRI=2.177);  
<https://www.degruyter.com/view/journals/hfsg/73/4/article-p371.xml>

## PUBLICAȚII IN EXTENSO, APĂRUTE ÎN LUCRĂRI ALE PRINCIPALELOR CONFERINȚE INTERNAȚIONALE DE SPECIALITATE

1. Modrea, **M.V. Munteanu**, I. Pruncu, *Using the Symmetries in the Civil Engineering. An overview*, Procedia Manufacturing 46 (2020) 906–913, 13th International Conference Interdisciplinarity in

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2. **M.V. Munteanu**, M.D. Stanciu, S. Vlase, *Image Correlation to Predict the Gait Recovery of Patients in the Post-Surgery Period*, Procedia Manufacturing 46 (2020) 499–508, 13th International Conference Interdisciplinarity in Engineering, INTER-ENG 2019, 3–4 October 2019, Targu Mures, Romania, <https://doi.org/10.1016/j.promfg.2020.03.072>
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5. Teodorescu H., Stanciu A., Purcarea R., **Munteanu M.V.**, An Original Pre-Tensioning Technique Of PMC Tubes For Dynamic Applications, Mathematical Methods And Computational Techniques In Research And Education: 2007, 3rd Int. Conf. On Dynamical Systems And Control Arcachon, France, 13 – 15 October 2007, ISBN 978-960-6766-08-4 ISSN 1790-5117, Pag 218 – 223;

## ALTE LUCRĂRI ȘI CONTRIBUȚII ȘTIINȚIFICE SAU, DUPĂ CAZ, DIN DOMENIUL CREAȚIEI ARTISTICE

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4. **Munteanu M.V.**, Stanciu M.D., Vlase S., *Rheological analysis of guitars subjected to environment variations*, Proceeding of The ICMSAV, COMAT, eMech 2018, 25-26 oct. 2018, Braşov, p. 222-226, ISSN 2457-8541,  
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5. M.D. Stanciu, P. C. Lăbont, C. Tărnoveanu, H. Bege, **M.V. Munteanu**: *Comparison Between Numerical and Physical Model of Lignocelluloses Materials Subjected to Cyclic Bending*, in Proceeding of The 7<sup>th</sup> International Conference on Computational Mechanics and Virtual Engineering COMEC 2017, p. 15-18, ISSN 2457-8541,  
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6. M.D. Stanciu, C. Tărnoveanu, H. Bege, **M.V. Munteanu**, S.M. Năstac: *The Computation Of The Internal Forces In The Structure Of A Wind Turbine* in Proceeding of The 7<sup>th</sup> International Conference on Computational Mechanics and Virtual Engineering COMEC 2017, p. 19-22, ISSN 2457-8541,  
[https://intranet.unitbv.ro/Portals/0/UserFiles/User1444/19-22\\_Stanciu\\_Mariana\\_Tarnoveanu.pdf](https://intranet.unitbv.ro/Portals/0/UserFiles/User1444/19-22_Stanciu_Mariana_Tarnoveanu.pdf)  
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10. M. Mihălcică, I. Burcă, **M.V. Munteanu**, *An Inexpensive Solution For Tracking the Knee Flexion Angle For Patients in Motor Recovery*, Palestrica of the Third Millennium Civilization and Sport – Vol. 16, No. 2, April - June 2015, p. 149-153, 2015, PALESTRICA MILENIULUI III- CIVILIZATIE SI SPORT/ PALESTRICA OF THE THIRD MILLENNIUM; 1582-1943;  
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**12.** M. Mihălcică, I. Burcă, V. Munteanu, A motion capture and analysis system to aid the physician during the motor recovery of patients, Palestrica of the Third Millennium Civilization and Sport – Vol. 15, No. 4, October - December 2014, p. 296-300, 2014;

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