

## CURRICULUM VITAE



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### STUDII:

**2012-2014** Doctorat: Universitatea TRANSILVANIA din Bra ov, Facultatea de Inginerie Mecanic , domeniul Inginerie Mecanic , Diplom de Doctor nr. 45 din 02.03.2015, Seria P nr. 0002995  
**2005-2007** Master: Mecanic Computa ional , Universitatea TRANSILVANIA din Bra ov, Facultatea de Inginerie Mecanic , Diplom de Master nr. 1517 din 14.09.2009, Seria F nr. 0028542  
**2000-2005** Studii superioare: Universitatea TRANSILVANIA din Bra ov, Facultatea de Inginerie Tehnologic , specializarea Productic , Diplom de Inginer nr. 4110 din 01.06.2006, Seria E nr. 0008910  
**1996-2000** Studii medii: Liceul de Informatic Bra ov (Colegiul Na ional de Informatic "Grigore Moisil" – Bra ov), Diplom de bacalaureat nr. 3831 din 25.08.2000, Seria R nr. 0285456

### ACTIVITATEA PROFESIONAL :

**2006-2015** Preparator, Universitatea TRANSILVANIA din Bra ov, Facultatea de Inginerie Mecanic , Departamentul de Inginerie Mecanic  
**2015-prezent** Asistent universitar, Universitatea TRANSILVANIA din Bra ov, Facultatea de Inginerie Mecanic , Departamentul de Inginerie Mecanic

**Limbi străine:** Englez

**ACTIVITATEA  
ȘTIINȚIFIC :**

- Proiecte de cercetare:** Contract cu beneficiar din mediul economic național- în calitate de director, titlu proiect: **Identificarea rigidității și amortizării sistemului mecano-hidraulic VCT cu OCV integrat**, finanțator: Schaeffler România SRL, volumul finanțării: 20000 lei, contract nr. 117787/01.11.2015  
Contract cu beneficiar din mediul economic național- în calitate de director, titlu proiect: **Simularea proceselor de curgere în sistemul Reverse Spring HLA**, finanțator: Schaeffler România SRL, volumul finanțării: 23000 lei, contract nr. 117722/01.11.2015
- Principalele publicații:** **M.V. Guiman**, I.C. Roșca, A New Approach on Vibrating Horns Design, SHOCK and VIBRATION, Volume 2017, <https://www.hindawi.com/journals/sv/2017/8532021/ref/>, ISSN:1070-9622  
I.C. Roșca, M. Pop, N.C. Crețu, **M.V. Guiman**, Wave propagation through ultrasonic horns-simulation and testing, ANNALS of Faculty Engineering Hunedoara – International Journal of Engineering, Tome XIV [2016] – Fascicule 4 [November], ISSN 1584-2665  
I.C. Roșca, C. Spîrchez, **M.V. Guiman**, Study of the vibration level in case of manufacturing on a CNC machine-tool, PRO LIGNO, Vol. 11, N° 4, 2015, 487-493, ISSN 2069-7430

## LISTA DE LUCR RI

### LISTA CELOR 10 LUCR RI TIIN IFICE CONSIDERATE A FI CELE MAI RELEVANTE PENTRU REALIZ RILE PROFESIONALE

1. **M. V. Guiman**, I. C. Ro ca, A New Approach on Vibrating Horns Design, SHOCK and VIBRATION, Volume 2017, <https://www.hindawi.com/journals/sv/2017/8532021/ref/>, ISSN:1070-9622
2. I. C. Ro şca, M. Pop, N. C. Creţu, **M. V. Guiman**, Wave propagation through ultrasonic horns-simulation and testing, ANNALS of Faculty Engineering Hunedoara – International Journal of Engineering, Tome XIV [2016] – Fascicule 4 [November], ISSN 1584-2665
3. **M. V. Guiman**, I. Burc , A method for the analysis of the take-off and the flight start in the long jump, Palestrica of the third millennium – Civilization and Sport, Vol. 16, no. 4, October-December 2015, 324–328, ISSN 1582-1943
4. **M. V. Guiman**, Theoretical and experimental aspects concerning the long jump trial, Bulletin of the Transilvania University of Bra ov, Vol. 8 (57), No. 2 – 2015, Series I: Engineering Sciences, 17-24, ISSN 2065-2119
5. I. C. Ro ca, C. Spîrchez, **M. V. Guiman**, Study of the vibration level in case of manufacturing on a CNC machine-tool, PRO LIGNO, Vol. 11, N° 4, 2015, 487-493, ISSN 2069-7430
6. **M. V. Guiman**, Simulation models of the long jump, The 40th International Conference on Mechanics of Solids, Acoustics and Vibrations & The 6th International Conference on “Advanced Composite Materials Engineering” ICMSAV2016 & COMAT2016 Brasov, ROMANIA, 24-25 November 2016, <https://sites.google.com/site/comat2016/>
7. M. Niculescu, C. Irimia, I. C. Ro ca, M. Grovu, **M. V. Guiman**, Structural dynamic applications using principal component analysis method, The International Congress of Automotive and Transport Engineering „CONAT” 2016, Bra ov, România, Vol.1, pp.90-99 ISBN:978-3-319-45447-4, <http://www.conat.ro/index.php/conat/index>
8. **M.V. Guiman**, M. Mih lcic , A correlation approach between the take off velocity and jumped distance based on high speed camera records, International Conference on Innovative Technologies, IN-TECH 2015, 09. - 11.09.2015, Dubrovnik, Croaţia, <http://www.in-tech.info/in-tech-2015-dubrovnik-croatia/>
9. **M.V. Guiman**, Theoretical considerations concerning the long jump, The 6th International Conference “Computational Mechanics and Virtual Engineering” COMEC 2015, 15-16 October 2015, Bra ov, Romania, <https://sites.google.com/site/comec2015brasov/>
10. **M.V. Guiman**, M. Mih lcic , M.V. Munteanu, A method for determinate the run-up velocity of the long jump, The 5th International Conference ”Advanced Composite Materials Engineering” and The 3rd International Conference ”Research & Innovation in Engineering”, COMAT 2014, 16 – 17 October 2014, Brasov, Romania, <https://sites.google.com/site/comat2014/home>

### TEZA DE DOCTORAT

Titlul tezei: CONTRIBU II LA IDENTIFICAREA DINAMIC A MI C RILOR CORPULUI  
UMAN CU APLICA II ÎN SPORT

Conduc tor ştiinţific: Prof. dr. ing. mat. Sorin VLASE

## C R Ț I Ș I C A P I T O L E D I N C R Ț I

1. S. Vlase, H. Teodorescu, L. Scutaru, **V. Guiman**, V. Munteanu, A. Stanciu, R. Purcarea, **CINEMATICA I DINAMICA. CULEGERE DE PROBLEME**, Ed. Infomarket, 2009, ISBN 978-973-1747-16-3
2. Eugenia SECAR , **Maria Violeta GUIMAN**, Mihaela Violeta MUNTEANU, **MECANIC DINAMIC CULEGERE DE PROBLEME**, Ed. Universit ții Transilvania din Bra ov, 2013, ISBN 978-606-19-0279-8
3. **Maria Violeta GUIMAN**, **DINAMICA MISC RILOR CORPULUI UMAN CU APLICATII ÎN SPORT. CONCEPTE SI EXPERIMENT**, Ed. Universit ții Transilvania din Bra ov, 2015, ISBN 978-606-19-0668-0
4. C lin Ioan RO CA, **Maria Violeta GUIMAN**, **ACUSTIC TEHNIC CONCEPTE I APLICA II**, Ed. Universit ții Transilvania din Bra ov, 2015, ISBN 978-606-19-0689-5
5. **Maria Violeta GUIMAN**, **ACUSTIC TEHNIC** , Ed. Universit ții Transilvania din Bra ov, 2016, ISBN 978-606-19-0838-7
6. **Maria Violeta GUIMAN**, C lin Ioan RO CA, **Îndrumar de laborator- ACUSTIC TEHNIC** , Ed. Universit ții Transilvania din Bra ov, 2017, ISBN 978-606-19-0956-8

## ARTICOLE PUBLICATE ÎN REVISTE DIN FLUXUL TIIN IFIC INTERNA IONAL PRINCIPAL SAU AP RUTE ÎN LUCR RI ALE PRINCIPALELOR CONFERIN E INTERNA IONALE DE SPECIALITATE

1. M. Grovu, C. Irimia, I. C. Ro ca, C. Husar, **M. V. Guiman**, Simulation environment for fatigue analysis of car wheel rim under radial fatigue test, The International Congress of Automotive and Transport Engineering „CONAT” 2016, Bra ov, România, Transilvania University Press, ISSN 2069-2401, pp. 25-34
2. **M. V. Guiman**, I. Burc , M.V. Munteanu, M. Mih lcic , Theoretical and experimental aspects about the long jump dynamics, Palestrica of the third millennium – Civilization and Sport, Vol. 16, no. 2, April-June 2015, 154–157
3. M. Mih lcic , **V. Guiman**, V. Munteanu, A cheap and portable motion analisys system, The 5th International Conference "Advanced Composite Materials Engineering" and The 3rd International Conference "Research & Innovation in Engineering", COMAT 2014, 16 – 17 October 2014, Brasov, Romania
4. M. Mih lcic , **V. Guiman**, V. Munteanu, Using motion analisys software to gather sports experimental data, The 5th International Conference "Advanced Composite Materials Engineering" and The 3rd International Conference "Research & Innovation in Engineering", COMAT 2014, 16 – 17 October 2014, Brasov, Romania
5. M. Mih lcic , **V. Guiman**, V. Munteanu, Using curve fitting as a method to analyze motion analisys data for sports, The 5th International Conference "Advanced Composite Materials Engineering" and The 3rd International Conference "Research & Innovation in Engineering", COMAT 2014, 16 – 17 October 2014, Brasov, Romania
6. M.V. Munteanu, **M.V. Guiman**, M. Mih lcic , A.E. Stanciu, Curent motion capture technologies used in human motion analysis, The 5th International Conference "Advanced Composite Materials Engineering" and The 3rd International Conference "Research & Innovation in Engineering", COMAT 2014, 16 – 17 October 2014, Brasov, Romania
7. **Guiman, M. V.**, An approach to multibody formulations for biomechanical modeling, The 5rd International Conference on "Computational Mechanics and Virtual Engineering", COMEC 2013, 24 – 25 October 2013, Brasov, Romania

8. **Guiman, M. V.**, Munteanu, M. V.: Modeling of joints for multibody systems, The 4nd International Conference „Advanced Composite Materials Engineering”, COMAT 2012, 18-20 October 2012, Brasov, Romania
9. R. Purc rea, M.V. Munteanu, A. Stanciu, **V. Duț (Guiman)**, Experimental results of a composite structure withcoremat core, The 4th International Conference Computational Mechanics and Virtual Engineering COMEC 2011, 20-22 OCTOBER 2011, Brasov, Romania
10. Popa, I., Secara, E., Petric, L., **Guiman, V.**, Ambrus, C., Vlase, S.: Mathematical model used for the variation insulation within a car, Proceedings of the 4th International Conference on Manufacturing Engineering, Quality and Production Systems, MEQAPS'11, September 15-17, 2011, Barcelona, Spain
11. Cotoros, D., Stanciu, A., Baritz, M., **Du (Guiman), V.** : Analysis of bending specific deformation in composite materials using comparative methods, Lecture Notes in Engineering and Computer Science WCE2011, 6-8 July 2011, London, U.K
12. Rosu, D., Teodorescu, H., Vlase, S., Stanciu, A., **Guiman, V.**: Energetically efficient heating radiant systems using advanced composite materials, 2nd Int.Conf. on ENVIRONMENTAL & GEOLOGICAL SCIENCE & ENGINEERING (EG'09), September 24-26, 2009, Transilvania University of Brasov, Romania, Paper 625-297
13. Enescu, I., Lepadatescu, B.,Vlase, S., **Guiman, M.V.**: The ruber covered rollers which are widwlz used in process ing machinery mathematical models, The 3rd International Conference on "Computational Mechanics and Virtual Engineering", COMEC 2009, 29 – 30 OCTOBER 2009, Brasov, Romania, Under FISITA Patronage
14. Stanciu, A., Purcarea, R., Munteanu, V., **Guiman, M.V.**: Finite element method used for modeling a glass fibrereinforced composite tank, The 3rd International Conference on "Computational Mechanics and Virtual Engineering", COMEC 2009, 29 – 30 OCTOBER 2009, Brasov, Romania, Under FISITA Patronage
15. Teodorescu, H., Vlase, S., Scutaru, M. L., Luca Motoc, D., **Guiman, M. V.**: Some advanced symmetric composite laminates subjected to off-axis loading systems. A stiffness evaluation, Modern Technologies, Quality and Innovation-ModTech, ModTech 2009, Chi in u, Moldova
16. Katouzian, M., Vlase, S., **Guiman, M. V.**: Estimation of the viscoelastic parameters of laminated composites. Part I. Analytical considerations, The 2nd International Conference ADVANCED COMPOSITE MATERIALS ENGINEERING - COMAT2008, 9-11 octombrie 2008, Brasov, Romania
17. Katouzian, M., Vlase, S., **Guiman, M. V.**: Estimation of the viscoelastic parameters of laminated composites. Part II. Experimental Procedures, The 2nd International Conference ADVANCED COMPOSITE MATERIALS ENGINEERING - COMAT2008, 9-11 octombrie 2008, Brasov, Romania
18. Chiru, A., Goia, I., Modrea, A., Purcarea, R., **Guiman, M.V.**, Burca,,I. : Effect of the geometric, structural and dimensional differences to fiber reinforced composites, 19th International DAAAM Symposium "Intelligent Manufacturing & Automation Focus on Next Generation of Intelligent Systems and Solutions" 22-25 October 2008, Trnava, Slovakia
19. Teodorescu, D.H., Vlase, S., Stanciu, A., **Guiman, V.**, Munteanu, V., Vasii,M. : The increase of loading capability of glass fibers reinforced composite tubes, 6th International Conference of DAAAM Baltic INDUSTRIAL ENGINEERING, 24-26 April, 2008, Tallinn, Estonia
20. Teodorescu, H., Vlase, S., Munteanu, V., **Guiman, V.**: Tensile tests on randomly reinforced polymer matrix composites, The 2nd International Conference. Computational Mechanics and Virtual Engineering, COMEC 2007, 11-13 October 2007, Bra ov, Romania
21. Enescu, I., Purc rea R., **Guiman V.**: Model by finite elements of elastic contact, A XXXI-a Conferinta Internationala de Mecanica Solidului, Septembrie 2007, Chisinau, Moldova
22. Teodorescu, H., Vlase, S., Cotoros, D., Munteanu, V., **Guiman, V.**: Modelling of tensile behaviour of sheet. moulding compounds, World Congress on Engineering 2007, Vols 1 and 2

Book Series: Lecture Notes in Engineering and ISBN:978-988-98671-5-7. Computer Science, pages: 1407-1410, JUL 02-04, 2007, London, ENGLAND

23. Teodorescu, H., Vlase, S., Scutaru, L., **Guiman, V.**, Rosu, D., Teodorescu, F.: Homogenization method applied to heterogeneous and anisotropic pre-impregnated composite materials, Advanced Problems in Mechanics, APM 2007, 20-28 June 2007, St. Petersburg, Russia

24. Teodorescu, H., Vlase, S., **Guiman, V.**, Dumitru, D.: Mechanical behaviour of pre-tensioned glass fiber reinforced composite tubes subjected to internal pressure, 2nd IASME / WSEAS International Conference on CONTINUUM MECHANICS (CM'07), 15-17 May 2007, Portoroz, Slovenia, ISBN:978-960-8457-70-6; ISSN: 1790-5095

25. Purcarea, R., Stanciu, A., Munteanu, V., **Guiman, V.**, Vasii, M.: Theoretical approach of an ultra-lightweight sandwich composite structure, International Conference Advanced Composite Materials Engineering, COMAT 2006, 19 – 22 October 2006, Brasov, Romania

26. **Guiman, V.**, Munteanu, V.: Contributions to the analysis of flexible multibody systems, International Workshop "Advanced Researches in Computational Mechanics and Virtual Engineering", 18 – 20 October 2006, Brasov, Romania

27. Munteanu, V., **Guiman, V.**: Biomechanical models based on natural coordinates, International Workshop "Advanced Researches in Computational Mechanics and Virtual Engineering", 18 – 20 October 2006, Brasov, Romania

28. Vlase, S., **Guiman, V.**, Purcarea, R., Munteanu, V.: O analiză calitativă a ecuațiilor de mișcare a sistemelor multicorp cu elemente elastice, 2nd WSEAS International Conference on Dynamical Systems and Control, 16-18 Octombrie 2006, Bucharest, Romania

29. Teodorescu, H., Vlase, S., **Guiman, V.**, Munteanu, V.: Determination of Reactions in one Degree of Freedom Mechanisms without Solving the Motion Equations, EE&AE'2006 – International Scientific Conference – 07-09.06.2006, Rousse, Bulgaria, pag. 506-512

30. Vlase, S., Stanciu, A., **Guiman, V.**, Nan, N., Vasii, M.: On The Coriolis Effects On The Motion Of The Elastic Multibody Systems, 1st International Conference. Computational Mechanics and Virtual Engineering. 20-22 October 2005, Brasov, pag. 100-103, ISBN 973-635-593-4

31. Munteanu, V. M., **Guiman, M.V.**, Haba, P.S.: Kinematic Human System Analyses on Mechanical Model. 1st International Conference. Computational Mechanics and Virtual Engineering, Brasov, 20-22 October 2005

#### ARTICOLE APĂRUTE ÎN LUCRĂRI ALE UNOR CONFERINȚE NAȚIONALE DE SPECIALITATE

1. Tofan, M., Goia, I., **Guiman, V.**, Vasii, M.: Construcția și calculul prăjinii tubulare, The XXX th National Conference Of Solid Mechanics, MECSOL 2006, 15-16 sept 2006, Constantza, Romania

2. Teodorescu, H., Vlase, S., **Guiman, V.**, Vasii, M., Munteanu, V.: On the combined thermal-, moisture- and mechanical loading of some composite laminate structures, National conference with international participants on "TECHNICAL SYSTEMS AND TECHNOLOGIES 2006", 30 June – 02 July 2006, STK Zhrebchevo Sliven, Bulgaria

3. Haba, P. S., Munteanu, V., **Guiman, V.**: Analiza biomecanică a mișcărilor în jocul de baschet. Optometry and Medical Engineering, 9-11 iunie 2006, Brasov, Romania, pag. 147-150, ISBN (10) 973-635-726-0, ISBN (13) 978-973-635-726-8

4. **Guiman, V.**, Purcarea, R., Munteanu, V.: Metode pentru calculul proprietăților mecanice a materialelor compozite. Simpozion AGIR, Brasov, iunie, 2006

5. Micu, I., Tofan, M., **Guiman, V.**, Purcarea, R., Munteanu, V.: Analiza cinematică în saltul cu prăjină. Simpozion AGIR, Brasov, iunie, 2006

6. Cardei, P., Muraru, V., Gangu, V., Teodorescu, H., Purcarea, R., **Guiman, V.**: Researches On The Composite Materials Behaviour At Mechanical Loads Using Macro And Micro Modeling And Fea Analysis. Bulgaria 2006 (Cardei Inma Bucuresti)
7. Munteanu, V., **Guiman, V.**, Haba, P.S.: Modele cinematice i dinamice pentru analiza sistemului uman. Simpozion Na ional Tendin e Moderne în Mecanic , mai, 2005
8. Muntean, V., **Guiman, V.**, Haba, P.S., Burc , I.: O identificare cinematic a mi c rilor alerg torului de garduri. Simpozion Na ional Tendin e Moderne în Mecanic , Bra ov, mai, 2005

Bra ov, 26.07.2018

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