

Europass Curriculum Vitae



Personal information

First name(s) / Surname(s) **Sorin VLASE**
 Address(es)
 Telephone(s) Mobile: +
 Fax(es) +40 268 418992
 E-mail svlase@unitbv.ro;
 Nationality Romanian
 Date of birth
 Gender Male

Desired employment / Occupational field

Full professor in Mechanics/Research and Education

Work experience

| | |
|--------------------------------------|--|
| Date | 1996- up today - Full professor; 1991-1996-Assoc. professor; 1984-1991- Lecturer; 1980-1984- Assistant prof.; 1976-1980- Research engineer in Automotive Research Institute, Brasov and Automotive Factory ROMAN SA Brasov |
| Occupation or position held | Full professor 2004-2011 Head of Department of Mechanics, 2011-2012 Head of Department of Automotive Engineering and Mechanics 2012- 2020, Head of Department of Mechanical Engineering |
| Main activities and responsibilities | Lectures in Mechanics, Computational Mechanics, Finite Element Method, Mechanical Stability, Numerical Methods, Kinematics and Dynamics of Multibody Systems. |
| Name and address of employer | Transilvania University of Brasov |
| Type of business or sector | Research and Education |

Education and training

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|--|---|
| Dates | 1989 PhD Thesis, Transilvania University of Brasov; 1977-1982 Licence in mathematics, Faculty of Mathematics and Informatics, University of Bucharest; 1971-1976 MSc, domain Mechanical Engineering (Automotive Engineering), Faculty of Mechanical Engineering, Transilvania University of Brasov. 1967-1971, High School Andrei Saguna Brasov |
| Title of qualification awarded | B.Sc., M.Sc., PhD |
| Principal subjects/occupational skills covered | Mechanics, Computational Mechanics, Finite Element Method, Vibrations, Multibody Systems |

Name and type of organisation
providing education and training

Level in national or international
classification

Transilvania University of Brasov

Domain Mechanical Engineering at Transilvania University: Category A (best)

Personal skills and competences

Mother tongue(s)

Romanian

Other language(s)

Self-assessment

European level (*)

Language

Language

| Understanding | | | | Speaking | | | | Writing | |
|---------------|---------|---------|--|--------------------|--|-------------------|--|---------|--|
| Listening | | Reading | | Spoken interaction | | Spoken production | | | |
| B | English | B | | B | | C | | B | |
| A | French | B | | A | | B | | B | |
| B | German | B | | B | | C | | C | |

(*) [Common European Framework of Reference for Languages](#)

Social skills and competences

Organisational skills and
competences

Organiser of ten international conferences, participation in the scientific and organising committees for 28 conferences.

Organizer of the International Conferences:

The 1st Int. Conf. COMPUTATIONAL MECH. and VIRTUAL ENG. - COMEC2005, Brasov ROMANIA
The 2nd Int. Conf. COMPUTATIONAL MECH. and VIRTUAL ENG. - COMEC2007, Brasov ROMANIA
The 3rd Int. Conf. COMPUTATIONAL MECH. and VIRTUAL ENG. - COMEC2009, Brasov ROMANIA
The 4th Int. Conf. COMPUTATIONAL MECH. and VIRTUAL ENG. - COMEC2011, Brasov ROMANIA
The 5th Int. Conf. COMPUTATIONAL MECH. and VIRTUAL ENG. - COMEC2013, Brasov ROMANIA
The 6th Int. Conf. COMPUTATIONAL MECH. and VIRTUAL ENG. - COMEC2015, Brasov ROMANIA
The 1st Int. Conf. ADVANCED COMPOSITE MAT. ENG. - COMAT2006, Brasov, ROMANIA
The 2nd Int. Conf. ADVANCED COMPOSITE MAT. ENG. - COMAT2008, Brasov, ROMANIA
The 3rd Int. Conf. ADVANCED COMPOSITE MAT. ENG. - COMAT2010, Brasov, ROMANIA
The 4th Int. Conf. ADVANCED COMPOSITE MAT. ENG. - COMAT2012, Brasov, ROMANIA
The 5th Int. Conf. ADVANCED COMPOSITE MAT. ENG. - COMAT2014, Brasov, ROMANIA

Principal investigator in more than 15 scientific projects. Member in more than 50 scientific projects.

Technical skills and competences

Mechanics, Computational Mechanics, Finite Element Method

Computer skills and competences

Using common Windows programmes at medium level, FORTRAN, Matlab, FEM programmes

Artistic skills and competences

Other skills and competences

Driving licence

B, C categories, Romania

Additional information

Annexes

VLASE SORIN

PUBLISHED WORKS

Books (21) - selection

1. Vlas, S., Finite Element Elastodynamic. Editura LUX LIBRIS, 1996.
2. Vlas, S., Mechanics. Statics/Kinematics/Dynamics Ed. INFOMARKET, 2004,2007,2005.
3. Vlas, S., Computational Mechanics. Ed. INFOMARKET, 2006. ISBN 973-8204-75-5
4. Vlas, S., s.a., Composite Materials. Computational Methods. Editura Universității TRANSILVANIA, 2007. ISBN 978-973-635-890-6.
5. Vlas, S., Teodorescu-Drăghicescu, H., Scutaru, L., ș.a., Kinematics and Dynamics. Problems. Ed. Infomarket, 2009.
6. Chiru, A., Scutaru, L., Vlas, S., Cofaru, C., Composite Materials in Automotive Engineering, TRANSILVANIA Univ. Press, 2013.
7. Vlas S., Mechanical Identifiability in Automotive Engineering. Derc Publishing House, 2015, Boston.
8. Vlas, S., Marin, M., Ochsner, A., Eigenvalues and eigenvectors in Applied Mechanics, Springer, 2018

Chapter in books (5)- selection

1. Vlas, S., Finite Element Analysis of the Planar Mechanisms: Numerical Aspects. In Applied Mechanics - 4. Elsevier, 1992, p.90-100.
2. Teodorescu H., Vlas, S., Rosu, D., Ulea, M., Residual Internal Stresses determined Experimentally in Hollow Composite Laminates, in E. E. Gdoutos (Editor), Experimental Analysis of Nano and Engineering Materials and Structures. Springer. Alexandroupolis, Greece, July 1-6, 2007, Springer, Dordrecht, The Netherlands, ISBN 978-1-4020-6.

Editor (10)- selection

1. **S. Vlas**, S.Lache, Gh. Radu, The 2nd International Conference ADVANCED COMPOSITES MATERIALS ENGINEERING, Ed. Universității TRANSILVANIA din Brașov, 2008.
2. **S. Vlas**, A. Chiru, The 2nd International Conference COMPUTATIONAL MECHANICS and VIRTUAL ENGINEERING, COMEC2007. Ed. Universității TRANSILVANIA, Brașov, 2007.
3. **S. Vlas**, A. Chiru, Yasushi Niitsu, The 3rd International Conference COMPUTATIONAL MECHANICS and VIRTUAL ENGINEERING, COMEC2009. Ed. Universității TRANSILVANIA, Brașov, 2009.
4. D. Bigoni, **S. Vlas**, A. Chiru, The 3rd International Conference COMAT2010 - ADVANCED COMPOSITES MATERIALS ENGINEERING, Ed. Infomarket, 2010.
5. **S. Vlas**, C. Papalettere, The 3rd International Conference COMPUTATIONAL MECHANICS and VIRTUAL ENGINEERING, COMEC2011. Ed. Lux Libris, Brașov, 2011.

Didactical books (14)

Papers ISI indexed (WOS) (208)

Papers published in international proceedings (53)

Papers published to international conferences(55)

Papers in romanian 133 (40+93)

Journals, Universities journals, Journal of Romanian Academy(40):

National conferences (93):

PROJECTS AND GRANTS

NATIONAL GRANTS (55) (selections):

1. Title: **Modeling and Simulation of Mechanical Behavior, using FEA, of the Composite Materials to Identify the Elastics/Viscoelastic properties.**
Number of project: CEEX MODULUL I 42/2005. Director: **VLASE SORIN**
2. Title: **Modern Results and Tendencies in the Mechanics of Polymeric Composite reinforced with Fibres**
Number of project: CEEX Modulul III, 35/2006, Director: **VLASE SORIN**
3. Title: **Nonlinear Analysis, Experimental Analysis and Optimal Control of the Multibody Systems with Elastic Elements, with Application in Mechanical Engineering – ADEL**
Number of project: CEEX MODULUL I, 61/2006. Director: **VLASE SORIN**
4. Title: **Virtual Analysis of the Multibody Systems with Applications in Automotive Engineering**
Number of project: 930/2007, CNCIS, Tip A, 2007. Director: **VLASE SORIN**
5. Title contract: **Promoting the Interdisciplinarity Research in the Field of the Multibody Systems in the frame of FP7- CISEM.**
Number of project: 12555/2006, CEEX Modulul III, Director: **VLASE SORIN**
6. Title: **White Noise in Urban Environment**
Number of project :4165AK/2007, Director **VLASE SORIN**

7. Title: **Dezvoltare laborator interdisciplinar pentru modelarea si identificarea mecanica a materialelor compozite multifunctionale avansate- COMLAB.O2.1.**
Number of project: **IMPACT 784-iunie 2007**, Director: **VLASE SORIN**
8. Title: **Cresterea fiabilitatii rulmentilor utilizati in industria autovehiculelor. AUTORUL. O1.1.**
Number of project: **IMPACT-1358/2008 – sesiunea iunie 2008**, Director: **VLASE SORIN**
9. Title: **The 2nd Advanced Composite Materials Engineering - COMAT2008.**
Number of project: **710/2008 – MCT**, Director: **VLASE SORIN**
10. Title: **Noise Map for the City Targu-Mures.** Director: **VLASE SORIN**

INTERNATIONAL GRANTS

1. NATO-EV: CPB.EAP.EV.982300/21/ 2006. FINITE ELEMENT ANALYSIS OF FIBROUS COMPOZITE MATERIALS
Director: **VLASE SORIN**