

## Europass Curriculum Vitae



### Personal information

First name(s) / Surname(s) **Sorin VLASE**

Address(es) , Brasov, ROMANIA

Telephone(s) Mobile:

Fax(es)

E-mail [svlase@unitbv.ro](mailto: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  
1980- present Transilvania University of 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

Dates 2015 - Habilitation in Automotive Engineering;  
1989 PhD Thesis, Transilvania University of Brasov;  
1977-1982 Licence in mathematics, Faculty of Mathematics and Informatics, University of Bucharest;  
1971-1976 B.Sc.; 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. , Hab.

Principal subjects/occupational skills covered Mechanics, Computational Mechanics, Finite Element Method, Vibrations, Multibody Systems

Name and type of organisation providing education and training Transilvania University of Brasov

Level in national or international classification 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**

Prof.H.C. of the Ovidius University, Constanta

**Annexes**

Brasov, 15 sept.2024

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 (15)- 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) (244)

### 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, CNCSIS, 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 COMPOSITE MATERIALS  
Director: **VLASE SORIN**