Europass Curriculum Vitae

Personal information

First name(s) / Surname(s)	**Sorin Vlase**
Address(es)	Transilvania University of Brasov, 29 Eroilor Av., 500036, Brasov, Romania
Telephone(s)	Office: (00) 40 268 418992 or Mobile: (00) 40 722 643020
E-mail	svlase@unitbv.ro; svlase@yahoo.com
Nationality	Romanian
Date of birth	10th July 1952
Present position / Occupational field	**Professor - Faculty of Mechanical Engineering** **"Transilvania" University of Brasov**

Professional experience

Dates	March 1st, 1996 - present
Occupation or position held	Professor
Main activities and responsibilities	Academic activities: Mechanics, Vibrations, Stability, Dynamics, Composite materials, Computational Mechanics, Finite Element Method; Research activities: Dinamical Systems, Dynamics of the Multibody Systems, Composite materials mechanics,Vibration; Management activities: head of the Department of Mechanics (2004-present), member of the Faculty council (1990-present), member of the senat of Transylvania University, students tutoring, undergraduate diploma/master dissertation papers advising, monitoring and coordinating.
Name and address of employer	"Transilvania" University of Brasov, Faculty of Material Science and Engineering, Mechanical Engineering Department, 29 Eroilor Av., 500036, Brasov, Romania.
Type of business or sector	Research, Academic education
Dates	October 1st, 1991 - March 1st, 1996
Occupation or position held	Associate professor

Main activities and responsibilities	Academic activities: Finite Element Method, Mechanics of Structures, Mechanics, Vibrations, Stability, Dynamics, Composite materials, Computational Mechanics, Dynamical Systems; Research activities: Dinamical Systems, Dynamics of the Multibody Systems, Composite materials mechanics, Vibrations; Management activities: students tutoring, undergraduate diploma/master dissertation papers advising, monitoring and coordinating.
Name and address of employer	"Transilvania" University of Brasov, Faculty of Mechanical Engineering, Mechanical Engineering Department, 29 Eroilor Av., 500036, Brasov, Romania
Type of business or sector	Research, Academic education
Dates	October 1st, 1984 - October 1st,1991
Occupation or position held	Lecturer
Main activities and responsibilities	Academic activities: Finite Element Method, Mechanics of Structures, Mechanics, Vibrations Research activities: Dinamical Systems, Dynamics of the Multibody Systems, Composite materials mechanics; Management activities: students tutoring, undergraduate diploma/master dissertation papers advising
Name and address of employer	""Transilvania" University of Brasov, Faculty of Mechanical Engineering, Mechanical Engineering Department, 29 Eroilor Av., 500036, Brasov, Romania
Type of business or sector	Research, Academic education
Dates	March 1st, 1980 - October 1st, 1984
Occupation or position held	Assistant professor
Main activities and responsibilities	Academic activities: Finite Element Method, Mechanics of Structures, Mechanics, Vibrations Research activities: Dinamical Systems, Dynamics of the Multibody Systems, Composite materials mechanics;
Name and address of employer	"Transilvania" University of Brasov, Faculty of Mechanical Engineering, Mechanical Engineering Department, 29 Eroilor Av., 500036, Brasov, Romania
Dates	October 1st, 1976 - March 1st, 1980
Occupation or position held	Research engineer
Main activities and responsibilities	Reseach activities, mechanical measurement, design,
Name and address of employer	SC ROMAN SA & SC INAR SA (Research Institute for Automotive Engineering Brașov), str. Poenelor, nr.5
Type of business or sector	Research & Industry

Education and training

Date	June, 2015
Title of qualification awarded	Habilitation degree
Principal subjects/occupational skills covered	Habilitation thesis delivered: **MECHANICAL IDENTIFIABILITY IN AUTOMOTIVE ENGINEERING** Ordin 5351/29.09.2015
Domain	Aerospatial, Automotive and Transportation

Name and type of organisation affiliated	University of Pitești, Interdisciplinary Doctoral School
Dates	1981-1989
Title of qualification awarded	PhD in the field of Mechanical Engineering
Principal subjects/occupational skills covered	Thesis title: *Contributions to the elastodynamic analysis of the mechanisms using FEM.* Ph.D. Father: prof. Florea Duditza
Name and type of organisation providing education and training	"Transilvania" University of Brasov
Dates	1977- 1982
Title of qualification awarded	Licence in mathematics
Principal subjects/occupational skills covered	Analysis, Algebra, Mechanics, Geometry, Statistics
Name and type of organisation providing education and training	University of Bucharest, Faculty of Mathematics
Dates	1971- 1976
Title of qualification awarded	Licence+master diploma in engineering/ specialization: Mechanical Engineering/Automotive Engineering
Principal subjects/occupational skills covered	Mechanical engineering, automotive engineering, computer aided design, manufacturing technologies, vibrations, modelling and simulation of mechanical devices.
Name and type of organisation providing education and training	University of Brasov, Faculty of Mechanical Engineering

Other language(s)/Self-assessment

	Understanding				**Speaking**				**Writing**	
English	Listening		Reading		Spoken interaction		Spoken production			
Language	B2	Proficient user	B2	Proficient user	B2	Proficient user	B2	Proficient user	B2	Proficient user
Language	B2	Basic	B2	Basic	B2	Basic	B2	Basic	B2	Basic
German Language	B1	Basic	B1	Basic	B1	Basic	B1	Basic	B1	Basic

Social skills and competences

Team spirit and good communication skills acquired through experience as manager or member of more as 50 research projects (manager – 20 research grants).
Communication skills and competences concerning the knowledge transmission and continuing education gained through experience in the teaching activities within the "Transilvania" University of Brasov, since 1980.
Good ability to adapt multicultural environments.

Organisational skills and competences	Finite Element Method for the use to the dynamic analysis of Multibody Systems. Experimental characterization/identification/evaluation of the behaviour/(mechanical, thermal, electrical) properties/aging of mechanical structures and advanced materials Optical methods for advanced materials characterization (stress/strain states evaluation; mechanical properties identification based laser ultrasonic; surface parameter identification) – set-up, monitoring, use and tailoring Mechanical and dynamic mechanical methods for advanced/multi-layered polymer based composite materials characterization
Technical skills and competences	Composite materials (particle/fibre) manufacturing based on self-developed/known technologies Industrial abilities in mechanical and automotive engineering
Computer skills and competences	Programming in Matlab, MathCAD); linear and non-linear multi-scale material modelling; structural analysis and simulation in FEM based environments; statistical data processing;
Fellowships	April-May 1992, Technische Gesamnthochschule Wuppertal, Germany, DAAD; May-August, December 1993, Technische Universität, München, Germany, Tempus; July-August 1994, University of Athens, Tempus October-December, 1994, Technische Universität, Sttutgart, Germany, TEMPUS, IMG-94-RO-1102/1994. June 1999, Technische Universität, Sttutgart, Socrates June 1999, Universität Gesamnthochschule Wuppertal, Tempus June, 2001, Technische Universität Karlsruhe, Germany 2011,2012,2013,2014,2015, Erasmus mobilities, Miskolc and Gyor, Hungary
Special awards	Corresponding Member of the Romanian Academy of Technical Sciences
Professional associations affiliation	American Society of Mechanical Engineers – since 1990 EUROMECH – 2006 ARTENS - 1995 SMRTA – 2014 ARMSM-2007 SIAR-2008
Project evaluator	Evaluator UEFISCDI – since 2006
Post-graduate courses and other training	**1990**, September CISM courses, Szombothely, Ungaria; **2002**, June, NATO –ASI Workshop, Virtual Nonlinear Multibody System, Praga; **2006**, Octomber, CISM, Udine, Italy; **2006**, December, Hottinger Academy, Darmstadt, Germany; **2007, M**ay, ZACEcourses in, Nonlinear Finite Element Method, Berlin, Germany; **2007**, Octomber, Bruel&Kjaer courses, München, Germany. **2008**, June, CISM, Udine, Italy. **2015**, May, Italy, COST
PhD evaluator	More than 30 PHD Thesis evaluated
Other activities	Evaluator in The Romanian Agency for Quality Assurance in Higher Education. More than 10 evaluations

Additional information	Chairman of the International Conferences: **COMAT2006, COMAT2008, COMAT2010, COMAT2012, COMAT 2014, COMAT2016, COMAT2018, COMEC2005, COMEC2007, COMEC2009, COMEC2011, COMEC2013, COMEC2015**, **COMEC2017, eMECH2016, eMECH2018, INTERNATIONAL WORKSHOP ON COMPUTATIONAL MECHANICS**, Braşov, octomber,2006, **MODERN TRENDS IN MECHANICS**, 2005, In the Scientific or Organising Committee: **OPTIMED 2006**, June, Braşov; 5th **BALKAN SCHOOL IN NUCLEAR PHYSICS**, Braşov, 2006, september; The **XXXI-th National Conferenc in Mechanics of Solid, Chişinău,** 28-30 september, 2007; **CONFERENCE on MULTIBODY SYSTEMS' DYNAMICS** , Piteşti, octomber, 2007; **NATIONAL CONFERENCE on MECHANICS OF SOLIDS**, CNMS –XXXII, Piteşti, 11-13 September 2008; The 3rd **INTERNATIONAL CONFERENCE ON TEORETICAL AND APPLIED MECHANICS(MECHANICS 07),** Tenerife, Canary Islands, Spain, December 14-16, 2007; **3rd Int. Conf. on DYNAMICAL SYSTEMS and CONTROL (CONTROL '07)**, Arcachon, France, 13-15 October 2007; **6th Int. Conf. on NON-LINEAR ANALYSIS, NON-LINEAR SYSTEMS AND CHAOS (NOLASC '07)**; **The 3rd IASME International Conference on EDUCATIONAL TECHNOLOGIES (EDUTE'07),** 2007**;** **The 9th International Conference on MATHEMATICAL METHODS AND COMPUTATIONAL TECHNIQUES IN ELECTRICAL ENGINEERING (MMACTEE '07),** 2007**;** **The 7th International Conference on WAVELET ANALYSIS & MULTIRATE SYSTEMS (WAMUS'07), 2007;** **OPTIMED 2008,** **FRAM 2008 – FRACTURE MECHANICS, 10-11 octombrie 2008, Brasov,** **TEHNONAV 2006, TEHNONAV 2008;** **CNMS – XXXIII, NATIONAL CONFERENCE on MECHANICS OF SOLIDS,** Bucuresti, 10-12 September 2009; „**ACOUSTICS AND VIBRATION OF MECHANICAL STRUCTURES**" , AVMS2009 Timişoara, 28-29 mai 2009,2011,2013,2015. **INTER-ENG International Conference**, 2009, 2010,2011,2012,2013,2014,2015, Targu Mures, Petru Maior University, **Conference on Experiments/Process/System Modeling/Simulation/Optimization** (**3rd IC-EpsMsO**), Athens, Greece, from 8th to 11th of July, 2009. etc
Publishing activity	Author and co-author of more than 300 scientific articles (50 articles in ISI journals, more than 90 papers ISI indexed). Author and co-author of 20 books
Annex	Selected scientific papers/books/chapters in international books

Annex

Books (selected)

Vlase, S., **Elastodynamic of Finite Elements.** Ed. LUX LIBRIS, 1996. 134pg
Vlase, S., **Mechanics. Statics**. Ed. INFOMARKET, 2003,2008. ISBN 973-8204-52-6, 229 pg.
Vlase, S., **Computational Mechanics**. Ed. INFOMARKET, 2006. ISBN 973-8204-75-5.
Vlase, S.,s.a., **Mechanics. Kinematics and Dynamics. Problems**. Ed.Univ. Transilvania, Brasov, 2014
Vlase,S., **Mechanics. Dynamics**. Ed. Infomarket, 2005. 973-8204-74-7.265 pg.
Vlase,S., s.a., **Composite Materials. Calculus Methods**. Editura Universităţii TRANSILVANIA, 2007. ISBN 978-973-635-890-6. 200 pg.
Vlase, S., **Mecanics. Kinematics**. Ed. Infomarket, 2007. ISBN 978-973-8204-96-6.
Vlase,S. et al, **Eigenvalues and Eigenvector in Applied Mechanics.** Springer, 2019.

Chapters in international books

Encyclopedia Springer. Fiber-reinforced composites: methods to determine mechanical properties. Sorin VLASE et al, Springer, 2019.
Vlase, S., Finite Element Analysis of the Planar Mechanisms: Numerical Aspects. In Applied Mechanics - 4. Elsevier, 1992,p.90-100.
Teodorescu H., **Vlase, 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.
Szava &all – Selected Chapters of Mechanics of Composite Materials-III, Ed. Univ. TRANSILVANIA din Brasov, ISBN 978-606-19-0224-8,2013 (**Vlase** 53pg).
Szava&all – Selected Chapters of Mechanics of Composite Materials-II, Slovakia, 2012 (**Vlase**,62pg).
Vlase,S.,Munteanu,V., Scutaru,L., Kinematical Analysis of the Multibody Systems using Topological Description, DAAAM 2008, **DAAAM International Scientific Book 2008**, Vol. 7, ISSN 1726-9687, ISBN 3-901509-69-0, Editor: B. Katalinic, hard cover, Publisher DAAAM International Vienna, Vienna.

Editor (selection**)**

S. Vlase, I. Curtu, The 1st International Conference ADVANCED COMPOSITES MATERIALS ENGINEERING**,** Ed. Universităţii TRANSILVANIA din Braşov, 2006.
S. Vlase, S.Lache, Gh. Radu, The 2nd International Conference ADVANCED COMPOSITES MATERIALS ENGINEERING**,** Ed. Universităţii TRANSILVANIA din Braşov, 2008.
S. Vlase, A. Chiru, The 2nd International Conference COMPUTATIONAL MECHANICS and VIRTUAL ENGINEERING, COMEC2007. Ed. Universităţii TRANSILVANIA, Braşov,2007.
S. Vlase, A. Chiru, Yasushi Niitsu, The 3rd International Conference COMPUTATIONAL MECHANICS and VIRTUAL ENGINEERING, COMEC2009. Ed. Universităţii TRANSILVANIA, Braşov, 2009.
D. Bigoni, **S. Vlase**, A. Chiru, The 3rd International Conference COMAT2010 - ADVANCED COMPOSITES MATERIALS ENGINEERING**,** Ed. **Infomarket**, 2010.
S. Vlase, C. Papalettere, The 3rd International Conference COMPUTATIONAL MECHANICS and VIRTUAL ENGINEERING, COMEC2011. Ed. Lux Libris, Braşov, 2011.

Papers (selected)

Articles in ISI journals-selection (110)

M. Marin, S. Vlase, M. Paun, Considerations on double porosity structure for micropolar bodies. AIP Advances **5**, 037113; http://dx.doi.org/ 10.1063/ 1.4914912, 2015.

M. L. Scutaru, H. Teodorescu-Draghicescu, S. Vlase, M. Marin, Advanced HDPE with increased stiffness used for water supply networks. Journal of Optoelectronics and Advanced Matrials, Vol. 17, No. 3-4, 2015, p. 484 – 488, 2015.

Száva I., Vlase S., Gálfi P.B., Munteanu R.I., Ionescu D.R., Evaluation of the clean softwood components'longitudinal Young's moduli by means of overall measurements. WOOD RESEARCH 60 (4): 555-566, 2015.

H.Teodorescu-Draghicescu, S. Vlase, M.D. Stanciu, I. Curtu, M. Mihalcica**,** Advanced Pultruded Glass Fibers-Reinforced Isophtalic Polyester Resin. Materiale Plastice, 52, No. 1, 62-54, 2015.

Vlase, S., Eigenvalues and Eigenmodes of an Inclined Homogeneous Truss in a Rotational Field. Rom. Journ. Phys., 59, 699-714 (2014a).

Heitz, T. Teodorescu-Draghicescu, H. Lache, S. Chiru, A. Vlase, S. Calin, M. R.,Advanced T700/XB3585 UD carbon fibers-reinforced composite, Journal of Optoelectronics and Advanced Matrials, VL 16,IS 5-6,p568-573,MAY-JUN 2014.

Radu, I. S., Vlase, S., Calin,M. R., Developing shape-memory materials using fast acting cyclic stresses for memory stabilizing. Optoelectronics and Advanced Matrials- Rapid Communications, VL 8,IS 3-4, p.251-254, MAR-APR 2014.

Vlase,S.,Danasel,C.,Scutaru,M.L.,Mihalcica,M., Finite Element Analysis of a Two-Dimensional Linear Elastic Systems with a Plane "RIGID MOTION", Romanian Journal of Physics,VL 59,IS 5-6,p.476-487,2014.

Vlase,S.,Purcarea, R.,Teodorescu-Draghicescu,H.,Calin,M.R.,Szava,I., Mihalcica,M.,Behavior of a new Heliopol/Stratimat300 composite laminate. Optoelectronics and Advanced Matrials- Rapid Communications,,VL 7,IS 7-8,p.569-572, JUL-AUG 2013.

Modrea, A., Vlase, S., Teodorescu-Draghicescu, H., Mihalcica, M., Calin, M. R., Astalos, C.,Properties of advanced new materials used in automotive engineering. Optoelectronics and Advanced Matrials- Rapid Communications,,VL 7,IS 5-6,p.452-455,MAY-JUN 2013.

Modrea, A.,Vlase, S.,Calin, M. R.,Peterlicean, A.,The influence of dimensional and structural shifts of the elastic constant values in cylinder fiber composites. Journal of Optoelectronics and Advanced Matrials, VL 15,IS 3-4,p.278-283,MAR-APR 2013.

Vlase, S., Teodorescu, P. P.,Elasto-Dynamics of a Solid with a General "Rigid" Motion using FEM Model.Part I. Theoretical Approach. Romanian Journal of Physics, VL 58,IS 7-8,p872-881,2013.

Vlase, S.,Teodorescu, P. P.,Itu, C.,Scutaru, M. L., Elasto-Dynamics of a Solid with a General "Rigid" Motion using FEM Model.Part II. Analysis of a Double Cardan Joint. Romanian Journal of Physics, VL 58,IS 7-8,p882-892,2013.

Vlase, S.,Teodorescu-Draghicescu, H.,Calin, M. R.,Scutaru, M. L.,Advanced Polylite composite laminate material behavior to tensile stress on weft direction. Journal of Optoelectronics and Advanced Matrials, VL 14,IS 7-8,p658-663,JUL-AUG 2012:

Calin, M. R.,Calin, M. A.,Vlase, S.,Radulescu, I.,Advanced materials in experimental equipments for absolute measurement of X and gamma-ray exposure rate with free-air and cavity ionization chambers. Journal of Optoelectronics and Advanced Matrials, VL 14,IS 3-4,p.282-286,MAR-APR 2012.

Stanciu, A.,Teodorescu-Draghicescu, H.,Vlase, S.,Scutaru, M. L.,Calin, M. R., Mechanical behavior of CSM450 and RT800 laminates subjected to four-point bend tests. . Optoelectronics and Advanced Matrials- Rapid Communications, VL 6,IS 3-4,p.495-497,MAR-APR 2012.

Scutaru, Maria Luminita,Vlase, Sorin,Some Properties of Motion Equations Describing the Nonlinear Dynamical Response of a Multibody System with Flexible Elements. JOURNAL OF APPLIED MATHEMATICS, DI 10.1155/2012/628503,2012.

Vlase, S.,Dynamical Response of a Multibody System with Flexible Elements with a General Three-Dimensional Motion. Romanian Journal of Physics,VL 57,IS 3-4,p676-693,2012.

Niculita, C.,Vlase, S.,Bencze, A.,Mihalcica, M.,Calin, M. R.,Serbina, L., Optimum stacking in a multi-ply laminate used for the skin of adaptive wings. Optoelectronics and Advanced Matrials- Rapid Communications,VL 5,IS 11,p.1233-1236,NOV 2011.

Calin, M. R.,Calin, M. A.,Vlase, S.,Radulescu, I.,Simion, C. A.,Advanced materials and technologies for high-pressure krypton detectors in industrial use. Journal of Optoelectronics and Advanced Matrials, VL 13,IS 9-10,p.1181-1184,SEP-OCT 2011.

Katouzian, M.,Vlase, S.,Calin, M. R.,Experimental procedures to determine the viscoelastic parameters of laminated composites. Journal of Optoelectronics and Advanced Matrials, VL 13,IS 9-10,p.1185-1188,SEP-OCT 2011.

Teodorescu-Draghicescu, H.,Stanciu, A.,Vlase, S.,Scutaru, L.,Calin, M. R., Serbina, L.,Finite element method analysis of some fibre-reinforced composite laminates. Optoelectronics and Advanced Matrials- Rapid Communications, VL 5,IS 7, p.782-785,JUL 2011.

Teodorescu-Draghicescu, H.,Vlase, S.,Scutaru, L.,Serbina, L.,Calin, M. R., Hysteresis effect in a three-phase polymer matrix composite subjected to static cyclic loadings. Optoelectronics and Advanced Matrials- Rapid Communications,VL 5,IS 3-4,p.273-277,MAR 2011.

Vlase, S.,Teodorescu-Draghicescu, H.,Motoc, D. L.,Scutaru, M. L.,Serbina, L., Calin, M. R.,Behavior of multiphase fiber-reinforced polymers under short time cyclic loading. Optoelectronics and Advanced Matrials- Rapid Communications,VL 5,IS 3-4,p419-423,MAR 2011.

Vlase, S.,Teodorescu-Draghicescu, H.,Calin, M. R.,Serbina, L.,Simulation of the elastic properties of some fibre-reinforced composite laminates under off-axis loading system. Optoelectronics and Advanced Matrials- Rapid Communications,VL 5,IS 3-4,p.424-429,MAR 2011.

Teodorescu-Draghicescu, Horatiu,Vlase, Sorin, Homogenization and averaging methods to predict elastic properties of pre-impregnated composite materials. COMPUTATIONAL MATERIALS SCIENCE,VL 50,IS 4,p.1310-1314,DI 10.1016/j.commatsci. 2010.04.040,FEB 2011.

Vlase, S.,Method of Eliminating Lagrangian Multipliers from the Equation of Motion of Interconnected Mechanical Systems. Journal of Applied Mechanics, Transactions of ASME, 54 (1), pp. 235-237, 1987.

Vlase, S.,Elimination of lagrangian multipliers. (1987*) Mechanics Research Communications, 14 (1), pp.* 17-22.

GRANTS AND CONTRACT AS PROJECT COORDINATOT

International Grants/Project Coordinator

1. **FINITE ELEMENT ANALYSIS OF FIBROUS COMPOZITE MATERIALS**. NATO-EV: Contract number: CPB.EAP.EV.982300/21/ **2006,** Project coordinator: **Sorin Vlase;**

2. Technische Universität, Sttutgart, Germany, **Dynamical Analysis of Mechanical Systems.** TEMPUS, Contract number: IMG-94-RO-1102/**1994**, Project coordinator: **Sorin Vlase;**

3. **Finite Element Methods Applied to the Calculus of Composites Materials.** PROMETEUS, Technische Universität, München, Germany, **1993**. Project coordinator: **Sorin Vlase.**

National Grants/Project Coordinator

4. **Modelling and simulation of behavior under mechanical loads, by means of finite element methods, of composite materials in order to identify their properties.** CEEX MODULUS I- Contract number: 42/2005, Beneficiary: MCT, Project coordinator: **Sorin Vlase.**

5. **Results and trends in modern mechanical fiber reinforced polymer composite materials.** CEEX Modulus III, Contract number: 35/2006, Beneficiary: MCT, Project coordinator: **Sorin Vlase.**

6. **Experimental and nonlinear analysis and optimal control of mechanical multibody systems with applications in mechanical engineering and robotics - ADEL.** CEEX MODULUL I, Contract number: 61/2006, Beneficiary: MCT, Project coordinator: **Sorin Vlase.**

7. **Virtual analysis of multibody systems with applications in automotive design (symbolic representations and numerical simulation).** Contract number: 930/2007, CNCSIS, Tip A, 2007, Beneficiary: MCT, Project coordinator: **Sorin Vlase.**

8. **Developing interdisciplinary laboratory for modeling and identification of advanced multifunctional composite materials mechanics - COMLAB.O2.1. IMPACT** Contract number: **784-iunie 2007,** Beneficiary: MCT**,** Project coordinator: **Sorin Vlase.**

9. **Increased reliability of the bearings used in the automotive industry. AUTO-RULO. IMPACT-** Contract number: **1358/2008 –2008,** Beneficiary: MCT, Project coordinator: **Sorin**

10. **The 2nd Advanced Composite Materials Engineering** - COMAT2008. Contract number: 710/2008 – Beneficiary: MCT, Project coordinator: **Sorin Vlase.**

11. **Developemenet of Componentes of Advanced Composite Materials with Applications in Automotive Engineering. POSCCE, 2012 with IMM VIOSON srl and INAR SA Brașov.** Project coordinator: **Sorin Vlase.**

12. **System calibration measurement and control equipment used in industry, operating at high temperatures. Innovation cecks. 2014, Landa srl București,** Beneficiary: Project coordinator**: Sorin Vlase.**

13. **Grant PNII** Contract number: **51-041/2007.** Beneficiary: MCT, Project coordinator**: Sorin Vlase.**

14. **Rigid motion control systems (robots and manipulators). Part I. Dynamic analysis of the motion of elastic solids.** Contract number: Grant 5005/28/1996. Beneficiary: Ministerul Învăţământului, D.G.I.S.C.S.U. Project coordinator**: Sorin Vlase.**

15. **Finite element analysis of mechanical systems with elastic elements (with applications to robots and manipulators).**Contract number: 4005/nr.282, 1995, Beneficiary: CNCSIS - Ministerul Învăţământului. Project coordinator**: Sorin Vlase.**

Contract with SME and other authorities

16. **Noise measurements to validate assessed by vehicular traffic; measurements for determining chemical pollution.** Contract number: 4165AK/2007. Beneficiary: Terti Ministry of Environment and Sustainable Development. Project coordinator: **Sorin Vlase.**
17. **Noise map for the city of Targu Mures 2009**, Beneficiary: Targu Mures City Hall, Project coordinator: **Sorin Vlase**
18. **Noise map for the city of Targu Mures 2014**, Beneficiary: Targu Mures City Hall, Project coordinator: **Sorin Vlase**
19. **Forced vibrations of the U12 engine.** Contract number: 452/**1984**. Beneficiary: CCSITT Braşov. Project coordinator**: Sorin Vlase**
20. **Stresses and vibration of the crankshaft nr. 232.03.101.** Contract number: 621/**1983**, Beneficiary: INMT Bucureşti. Project coordinator**: Sorin Vlase.**

Last up-date:
30th March, 2019