

PERSONAL INFORMATION

Adrian Ovidiu ȘOICA

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POSITION
IOSUD UTBV

PhD Coordinator
Doctoral studies field: Automotive Engineering
Since 2016

EXPERTISE FIELD AND
RESEARCH INTEREST AREAS

Vehicle Safety, Vehicle Dynamics, Accident reconstruction, Vehicle Design

October 2014-present

Professor

Transilvania University of Brasov, www.unitbv.ro

▪ vehicle dynamics, vehicle safety

October 2016 - September 2014

Assoc Professor

Transilvania University of Brasov, www.unitbv.ro

Vehicle dynamics, Vehicle body and safety, CAD

October 2003 – September 2006

Lecturer

Transilvania University of Brasov, www.unitbv.ro

Computer bases, Vehicle dynamics, Vehicle body and safety, CAD

October 2000 – September 2003

Assistant Professor

Transilvania University of Brasov, www.unitbv.ro

Computer bases, Vehicle dynamics, CAD, Numerical Methods

February 1998 – September 2000

Engineer

Transilvania University of Brasov, www.unitbv.ro

Computer bases, Vehicle dynamics

March 2019

Internship

DSD Dr. Steffan Datentechnik Ges.m.b.H, Linz, Austria

Accident Reconstruction, Crashtests and Crash Facilities

Mach2008

Internship

DSD Dr. Steffan Datentechnik Ges.m.b.H, Linz, Austria

Accident Reconstruction, Crashtests and Crash Facilities

2006

Internship

INA SCHAEFFLER BRASOV SRL

CAD Course PRO/Engineer

April 1998 – June1998

Internship

E.N.S.A.M. Paris – France

Programme TEMPUS Watermost

WORK EXPERIENCE



1997 Internship

Technical visits at Mercedes Benz, M.T.U. and Z.F., Germany
Bourse DAAD

1999-2002 PhD Degree

Replace with EQF
(or other) level if
relevant

Transilvania University of Brasov, www.unitbv.ro

- Thesis title - Research into the modelling of vehicle-pedestrian impact

1998-1999 Postgraduate degree

Transilvania University of Brasov, www.unitbv.ro

- Vehicle and environment

1997-1998 Postgraduate degree

Transilvania University of Brasov, www.unitbv.ro

- Optimization techniques of the human being-vehicle-road system

1992-1997 Mechanical Engineer

Transilvania University of Brasov, www.unitbv.ro

- Automotive Engineering

EDUCATION AND TRAINING

Mother tongue(s) Romanian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	A2	A2	B2
Replace with name of language certificate. Enter level if known.					
French	B2	B2	B1	B1	B2
Replace with name of language certificate. Enter level if known.					

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
[Common European Framework of Reference for Languages](https://www.europecouncil.eu/en/education/cultural/education/learning-languages/common-european-framework-reference-for-languages)

Communication skills

- Sociable, familiar with coordinating and working in teams, stress-resistant, involved and resolute when fulfilling various tasks.

PERSONAL SKILLS

Organisational / managerial skills

- Analytical and logical thinking;
- Coordinator of Job Title List for the Department of Motor Vehicles and Transportation;
- Coordinator of the study programme Automotive Engineer, with the following responsibilities:
 - o Elaborating the curriculum of the study programme;
 - o Drawing up the documentation for periodic evaluation by the Romanian Agency for Quality Assurance in Higher Education (ARACIS), full member of the European Association for Quality Assurance in Higher Education (ENQA);
 - o Maintaining relationships, communicating with students and members of the academic staff.
- Participation in national funding competitions for research and development programmes: CNCISIS A, CNCISIS AT, PNCD-II IDEI, PN-II-PT-PCCA-PARTENERIATE;
- Manager of research projects: CNCISIS A 1999-2002, CNCISIS AT 2004-2005, PNCD-II IDEI 2007-2010;
- Vice-dean of the Faculty of Mechanical Engineering, with responsibilities regarding the scientific research within the faculty, coordination of the faculty computing system, maintenance and improvement of the faculty's external relationships;
- Member in PhD evaluation commissions according to Orders emitted by the Rector of "TRANSILVANIA" University of Braşov

Job-related skills

- Design and construction of teaching and research test benches;
- Development of testing procedures in the field of car accident reconstruction <http://www.unitbv.ro/Default.aspx?alias=www.unitbv.ro/asr&>;
- Member in PhD examination commissions;
- Member evaluator in ARACIS (Romanian Agency for Quality Assurance in Higher Education)

Computer skills

- Ms Office, Autocad, ProEngineer, CREO, MathCAD, Matlab-Simulink

Other skills

- Drive licence B

ADDITIONAL INFORMATION

Proiecte

- 2/169/2004 " Studiul teoretic si experimental al accidentelor de circulatie de tipul autoturism pieton". – faza I - Stadiul actual al cercetarilor privind impactul autoturism pieton, – director
- 5/169/2005 " Studiul teoretic si experimental al accidentelor de circulatie de tipul autoturism pieton". – faza a II a - Cercetări experimentale privind impactul autoturism pieton, – director.
- Proiect de cercetare finanţat de Ministerul Educaţiei Naţionale, nr. 240 din 01/07/2014 (PN-PT-PCCA-2013-4-2023) – Responsabil faza a III a. **NAVIEYES** - <http://navieyes.unitbv.ro/>

Evenimente

- CONAT 2016 International Congress of Automotive and Transport Engineering
- CONAT 2010 International Congress of Automotive and Transport Engineering
- CONAT 2004 International Congress of Automotive and Transport Engineering

Recenzor

- Recenzor pentru jurnalele:
- Proceedings of the Institution of Mechanical Engineers, Part D, Journal of Automobile Engineering
- International Journal of Automotive technology

Afiliari

Membru SIAR (Societatea Inginerilor de Automobile din România) Perioada
 Membru Society of Automotive Engineering
 EVU - Europäische Vereinigung für Unfallforschung und Unfallanalyse e.V.
 IPIMEA-Institutul de Perfectionare in Ingineria Mecanica si Electrica a Autovehiculelor

Indici Hirsch (conform Google Scholar)
(Conform Scopus)
(Conform ISI)

h-index	6	5
i10-index	4	1
HScopus	4	
HISI	2	

ANNEXES

Research papers

1. Huminic, A., Huminic, G., Soica, A., Study of aerodynamics for a simplified car model with the underbody shaped as a Venturi nozzle, International Journal Vehicle Design, Vol. 58, No. 1, 2012, pp 15-32. <http://www.inderscience.com/info/inarticle.php?artid=45927>
2. Soica, A., Ispas, N., The influence of the vehicle's front-end profile upon adult pedestrian kinematics and dynamics, multibody approach, International Journal of Vehicle Safety, 2012 Vol. 6 No. 2, pp. 134-148, DOI: 10.1504/IJVS.2012.049019. <http://www.inderscience.com/info/inarticle.php?artid=49019>
3. Soica, A., Radu, N. Gh., The Influence Of Triggers Geometry Upon The Stiffness Of Cylindrical Thin Walled Tubes, Central European Journal of Engineering, June 2014, Volume 4, Issue 2, pp 101-109, Springer. http://download.springer.com/static/pdf/117/art%253A10.2478%252Fs13531-013-0125-6.pdf?auth66=1426657770_45a3578b35f766f4d6ca1e922633c634&ext=.pdf
4. Soica Adrian, Tarulescu Stelian, Ispas Nicolae, An Theoretical Approach upon the Stiffness of Vehicle Resistance Structure Submitted to an Axial Impact, Applied Mechanics and Materials Vol. 659 (2014) pp 250-255, (2014) Trans Tech Publications, Switzerland, doi:10.4028/www.scientific.net/AMM.659.250. <https://www.scientific.net/AMM.659.250>
5. Soica, A., Târulescu, S., Analysis of the deformation mode and determination of the energy dissipated by the resistance structure of vehicles, Applied Mechanics and Materials Vol. 772 (2015) pp 79-84. [doi:10.4028/www.scientific.net/AMM.772.79](https://doi.org/10.4028/www.scientific.net/AMM.772.79)
6. Soica, A., Târulescu, S., Impact phase in frontal vehicle pedestrian collision, International Journal of Automotive Technology, Vol. 17, No. 3, -887-897 (2016), DOI 10.1007/s12239-015-0040-y <http://link.springer.com/article/10.1007%2Fs12239-016-0040-y>
7. Soica, A., Togănel, G., Passenger head in impact with frontal airbag in OOP postures, CAR2017 International Congress of Automotive and Transport Engineering - Mobility Engineering and Environment 8-10 November 2017, Pitesti, Romania, Published as volume 252, 2017 of IOP Conference Series: Materials Science and Engineering. <http://iopscience.iop.org/article/10.1088/1757-899X/252/1/012005>
8. Motoc, DL., Curtu, I., Soica, A., Multiphase Polymeric Composite Materials CTE Variation with Extreme Environmental Conditions, Revista Materiale Plastice, Volume 47, issue 2, pag 236-239, 2010.
9. Motoc, DL., Cerbu, C., Soica, A., Sizing the microstructural influence on the CTEs variation in case of particle reinforced composites, Proceedings of the 7th International Conference of DAAAM Baltic Industrial Engineering, DAAAM International 2010.
10. Soica, A., Aspects of the passenger airbag E.C.U. location, IOP Conference Series-Materials Science and Engineering Volume: 147. https://apps.webofknowledge.com/Search.do?product=WOS&SID=3A139MYoen8jKJXqo9K&search_mode=GeneralSearch&prID=053b7841-b736-428e-8375-a998798a1793
11. El Croitoru, CO Morariu, A Soica, G Oancea, Composite Automobile Fender Impact Testing with a Spherical Ball, MATERIALE PLASTICE 57 (1), 175-190. ISSN Print 0025-5289, IF-1.393, SJR-0.409, 2020.
12. Soica, A., Budala, A., Monescu, V., Sommer, S., Owczarzak, W., Method of estimating the rolling resistance coefficient of vehicle tyre using the roller dynamometer revista:Proc IMechE Part D: J Automobile Engineering, ISSN: 0954-4070, 2020, SJR-0.67 fi:1.275, <https://journals.sagepub.com/eprint/JQYYDAJXB4QNBWERTWYV/full>

LIST OF RELEVANT PUBLICATIONS /RESEARCH (Books selection)

1. Pereş, GH., Florea, D., Cofaru, C., Şoica, A., Managementul traficului rutier, curs, Braşov 1998, ISBN 973 – 9852 – 7 – 4.
2. Chiru, A., Anca, H.R., Cofaru, C., Kuchar, p., Şoica, A., Ispas, N., Materiale compozite, plastomeri, elastomeri şi adezivi, curs, Editura Universităţii Transilvania, Braşov, 1999, ISBN 973 –98512 – 4 – X.
3. Florea, D., Cofaru, C., Şoica, A., Managementul traficului rutier, curs, Braşov 2000, Editura Universităţii Transilvania din Braşov, ISBN 973 – 9474 – 55 – 1.
4. Câmpian, O., Câmpian, V., Şoica, A., Cunoaşterea generală a automobilelor, Suport curs, Braşov 2002.
5. Şoica, A., Chiru, A., Ispas, N., Humnic, A., Caroserii şi sisteme pentru siguranţă pasivă, Curs, Braşov 2002.
6. Şoica, A., Târulescu. S., Năstăsioiu, M., Repararea autovehiculelor, Suport curs pentru specializarea Automobile – IFR, Braşov, 2004.
7. Năstăsioiu, M., Ispas, N., Şoica, A., Motoare pentru automobile II, Suport curs pentru specializarea Automobile – IFR, 2004.
8. Ispas, N., Năstăsioiu, M., Şoica, A., Bazele utilizării calculatoarelor II, Suport curs, Braşov 2003.
9. Câmpian, V.O., Şoica, A., Încercarea şi omologarea autovehiculelor, Editura Universităţii Transilvania din Braşov, ISBN 973 – 735 – 306 – 0 Braşov, 2004
10. Şoica, A., Chiru, A., Ispas, N., Humnic, A., Caroserii şi sisteme pentru siguranţă pasivă I, Editura Universităţii Transilvania din Braşov, Braşov 2005, ISBN 973 – 635 – 460 – 1.
11. Şoica, A., Caroserii şi sisteme pentru siguranţa pasiva II, Editura Universităţii Transilvania din Braşov, Braşov 2008, ISBN 978 – 973 – 598 – 354 – 3.
12. Şoica, A., Siguranţa pasivă a autovehiculelor, Editura Universităţii Transilvania din Braşov, Braşov 2010, ISBN 978-973-598-739-8.
13. Beleş, H., Şoica, A., Siguranţa activă şi pasivă a autovehiculelor, Editura Universităţii din Oradea, Oradea 2011, ISBN 978-606-10-0651-9.
14. Ispas, N., Şoica, A., Beleş, H., Expertiza si dinamica accidentelor rutiere, Editura Universităţii din Oradea, Oradea 2011, ISBN 978-606-10-0652-6.
15. Şoica, A., Proiectare asistată de calculator, Pro/Engineer - Îndrumar pentru laborator, 2012.
16. Dumitra şcu, D., Benea, B., Şoica, A., Jelenschi, L., Sandu, G., Proiectare asistată de calculator, Editura Universităţii Transilvania din Braşov, Braşov 2013, ISBN 978-606-19-0176-0.
17. Şoica, A., Câmpian O., Covaci D., Dinamica autovehiculelor - îndrumar de laborator, Braşov 2013, ISBN 978-606-19-0301-6.
18. Şoica, A., Câmpian O., Ciolan Gh., Preda I., Truşcă, D., Elemente de dinamica autovehiculelor, Braşov 2014. ISBN 976-606-19-0346-7.
19. Şoica, A., Cercetari in domeniul sigurantei pasive a autovehiculului, Braşov 2015, ISBN 978-606-19-0661-1.

20. Șoica, A., Caroserii și sisteme de siguranță pasivă, Brașov 2017, ISBN 97806-19-0928-5.
21. Budală, A., Șoica, A., Centuri de siguranță, Îndrumar de laborator și proiect, Brașov 2017, ISBN 97806-19-0929-2.