

PERSONAL INFORMATION

Stelian Tarulescu



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Web of Science Researcher ID: 0000-0002-9210-9833

Scopus Author ID: 24450962900

Brainmap: U-1700-030D-9264

POSITION

PhD, Engineer

WORK EXPERIENCE

Occupation or position held
Employer's name and locality
Date
Activities and responsibilities
Area of activities

University Professor

- Transilvania University of Braşov, Department of Motor Vehicles and Transportation
- since 2002, Lectures, coordination of BSc and MSc projects, research activities
- Teaching and research activities in the fields of automotive engineering, transport, vehicle pollution and environment

Researcher in road vehicles

- ITS Romania – Romanian Organization for the Implementation of Intelligent Transport Systems
- 2002 -2024, Project researcher for Mobility for European Rural Areas – MobiRural Erasmus Project
- Research activities in the fields of rural mobility, transport infrastructure and systems and vehicles

EDUCATION AND TRAINING

Date
Qualification awarded
Training organisation name and locality

Habilitation in the Field of Transport Engineering

2023

National University of Science and Technology POLITEHNICA Bucharest , Romania

Theme: Strategies for reducing road transportation pollution in urban areas

Ph D Degree

2002-2009

Date
Qualification awarded
Training organisation name and locality

Thesis title - Studies and research on the influence of urban road traffic on pollutant emissions - Mechanical Engineering Domain, Series G. Nr. 0001853, Ministry of Education, Research and Innovation, Transilvania University of Brasov, Romania
Transilvania University of Braşov

Postgraduate degree

2002 -2003, Vehicle and environment,
Transilvania University of Braşov

Engineer degree

1997-2002. Road Vehicles,
Transilvania University of Braşov

PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s)

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
Basic user - B2	Basic user - B2	Basic user - B2	Basic user - B2	Basic user - B2
Replace with name of language certificate. Enter level if known.				

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages

Communication skills Sociable, familiar with working in teams, involved and resolute when fulfilling various tasks

Organisational / managerial skills

- Since 2026 - President of the Brasov Society of Automotive Engineers of Romania (SIAR Bv).
- Since 2019 - Head of High Tech Products for Automotives Research Center, from Transilvania University of Brasov Research and Development Institute, <https://icdt.unitbv.ro/centre-de-cercetare/produse-high-tech-pentru-autovehicule.html>
- 2020 - 2021 - Coordinator of the UNITBV Project Management Office.
- Since 2019 - Member of the Board of Directors of Intelligent Transport Systems Romania (ITS), <https://www.its-romania.ro/ro/about>.
- UNITBV coordinator of activities on Sustainable Urban Mobility.
- Since 2019 - UNITBV representative in the Smart Mobility Alliance of the Metropolitan Area of Brasov.
- 2016 - 2025 - Coordinator of the Master's Degree Program: Road Safety and Interaction with the Environment, within UNITBV.
- Since 2015 - Expert accessing European structural and cohesion funds - Graduation certificate, N Series, Nr. 00270858, Ministry of Labour, Family, Social Protection and Older Persons.
- 2012 - 2020 - Responsible for the implementation of the internal managerial control of the Department of Vehicles and Transports from the Faculty of Mechanical Engineering of the Transilvania University of Braşov.
- 2006 - Graduate of the program: New Strategies of COMPetence Aquisition for Lifelong in Energy – Transport – Environment Engineering, Pilot Project RO/04/B/F/PP – 175016, No. 041/23.06.2006, Universitatea Transilvania din Brasov, Romania.

Job-related skills

- 2013 - 2019 - Head of the Internal Combustion Engine Testing Laboratory within the Research Center of the Faculty of Mechanical Engineering, C02A- High tech products for automobiles within the Development Research Institute of Transilvania University of Braşov.
- 2018 - 2019 Expert in the field of transport for Project no. 39 / 04.07.2018, "Framework agreement for services for evaluating financing applications submitted under the Regional Operational Program 2014 - 2020 in the Western Region", Subsequent contract no. 2 / no. Reg. 54 / 25.09.2018.
- 2013 - present - Responsible for the acquisition of equipment within the C02 HIGH-TECH Products Center for vehicles within the Development Research Institute.

Computer skills

- good command of Ms Office, Autocad, MathCAD.

Other skills

- 2009 - Mentor - Graduation Certificate, G Series, Nr. 00011326, Ministry of Education, Research and Innovation, organized by Zece Plus, Oneşti, Romania;
- 2009 - Pedagogical module - Graduation certificate, Series G. Nr. 002527, Ministry of Education, Research and Youth, Transilvania University of Brasov, Romania;
- 2009 - Trainer - Graduation Certificate, Series F, Nr. 0169146, Ministry of Education, Research and Youth, organized by Zece Plus, Oneşti, Romania

Driving licence

- Driving licence B category

ADDITIONAL INFORMATION

- Publications**
- 40 ISI-type articles indexed Web of Science;
 - 78 publications and articles in the volumes of national and international journals or conferences;
 - 16 books.
- Projects**
- 32 research contracts, 13 of them as a director.
- Memberships**
- Member of Romanian Society of Automobile Engineers
Member of ITS Romania – Romanian Organization for the Implementation of ITS

Projects (selection)

1. Erasmus+ Nr. 101179915, Implementation of Sustainable Urban Development Goals in Transport Bachelor Degree – ISDEGO, Transilvania University of Brasov Responsible.
2. 8040/14.07.2107, System for reducing the concentration of carbon dioxide in the exhaust gases of thermal engines, Transilvania University of Brasov, competition 2017 "Grants for young researchers", Director.
3. Study on the implementation of the Action Plan for Climate and Sustainable Energy - PACED Brasov 2021-2030, Contract with industrial sector no. 1181/1.02.2022, Director.
4. Thematic Trail Trigger – Three T" – Pilot project "Quiet areas as a tourist attraction", value, Contract with industrial sector no. 14979/1.11.2021, Director.
5. Solutions and measures regarding traffic systematization on the AUTOLIV Brasov Platform, Contract with industrial sector no. 3058/22.03.2019, Director.
6. Study on the adaptation of urban space and civil buildings to the individual needs of people with disabilities, Contract with industrial sector no. 7281/14.06.2018, Director.
7. Road traffic study for Cernavoda city, 2017, Contract with industrial sector no. 9239/07.08.2017, Director.
8. Introduction of intelligent and ecological urban transport system in Ghimbav. Routes and infrastructure for electric transport, Contract with industrial sector no. 1755/16.02.2017, Director.
9. Sustainable Urban Mobility Plan of Ghimbav, Contract with industrial sector no. 2842/14.03.2016, Director.
10. Mobility study on road traffic of Ghimbav, Contract with industrial sector no. 10496/14.09.2015, Director.

Publications (selection)

1. Antonya, C., Țârulescu R., Țârulescu S., Butnariu, S., Defining the Optimal Characteristics of Autonomous Vehicles for Public Passenger Transport in European Cities with Constrained Urban Spaces, Vehicles 2025, 7, 125.
2. Stelian Tarulescu, Radu Tarulescu, Adrian Soica, Dinu Covaciu, Cristian Ioan Leahu, Mihai Duguleana, Remus Szigeti (2025). „Measures to Reduce the Environmental Impact of Transport Proposed in SUMPs for Small Cities”. CONAT 2024 INTERNATIONAL CONGRESS OF AUTOMOTIVE AND TRANSPORT ENGINEERING.
3. Țârulescu R., Țârulescu S., Boboc, R.G., Nastasoiu, M., Filtration System for Reducing CO2 Concentration from Combustion Gases of Used Spark Ignition Engines, Vehicles 2026, 8, 19.
4. Țârulescu S., Țârulescu R., Soica A., Leahu C., Smart Transportation CO2 Emission Reduction Strategies, IOP Conference Series: Materials Science and Engineering Volume 252, Conference 1, ISSN.1757-899X, 2017.
5. Stelian Tarulescu, Radu Tarulescu, Adrian Soica, Anghel Chiru, Cristian Ioan Leahu, Remus Szigeti (2025). „Evaluation and Analysis of Public Transport Services for County Seat Municipalities in Romania”. CONAT 2024 INTERNATIONAL CONGRESS OF AUTOMOTIVE AND TRANSPORT ENGINEERING.
6. Adrian Soica, Stelian Tarulescu, Ramiarana Elie, Rasoma Rahantavololona Vonimanitra Juliana, Randriambanona Herizo, Mihaela Popa (2025). „The Impact of Road Transport on the Level of CO2in Urban Areas”. CONAT 2024 INTERNATIONAL CONGRESS OF AUTOMOTIVE AND TRANSPORT ENGINEERING.
7. S. Tarulescu, R. Tarulescu, A. Soica, C. I. Leahu (2017). „Smart Transportation CO2 Emission Reduction Strategies”. INTERNATIONAL CONGRESS OF AUTOMOTIVE AND TRANSPORT ENGINEERING – MOBILITY ENGINEERING AND ENVIRONMENT (CAR2017).
8. Stelian Tarulescu, Radu Tarulescu, Cristian-Ioan Leahu (2019). „On-Board Measurement of Emissions from Spark Ignition Engine Vehicle for Urban Routes”. 30TH SIAR INTERNATIONAL CONGRESS OF AUTOMOTIVE AND TRANSPORT ENGINEERING: SCIENCE AND MANAGEMENT OF AUTOMOTIVE AND TRANSPORTATION ENGINEERING.
9. A. Soica, S. Tarulescu (2016). „Impact phase in frontal vehicle-pedestrian collisions”. INTERNATIONAL JOURNAL OF AUTOMOTIVE TECHNOLOGY.
10. Stelian Tarulescu, Corneliu Cofaru, Radu Tarulescu (2016). „Cold Engine's Operating Regime Influence over the Exhaust Emissions”. Applied Mechanics and Materials, 822, 219–223.