

PERSONAL INFORMATION

TRUȘCĂ Daniel-Dragoș


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Sex Male

Nationality Romanian

PROFESSIONAL EXPERIENCE

2010 – present

Lecturer

Traffic accident analysis and reconstruction
Experimental research on vehicles
Vehicle dynamics and safety
Vehicle testing and homologation
Telematics, traffic management, and road safety

Faculty of Mechanical Engineering
Transilvania University of Brasov
29 Eroilor, 500036 Brașov (România)
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EDUCATION AND TRAINING

2003 – 2008

PhD student

Transilvania University of Brașov

Field of study: Research aimed at improving the passive safety of passenger cars in rear-end collisions

1998 – 2003

Bachelor studies in Automotive Engineering

Transilvania University of Brașov

PERSONAL SKILLS

Mother tongue

Romanian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2
French	B1	B1	B1	B1	B1

Communication skills

Good interpersonal skills, ability to actively listen and be empathic

Organizational/ managerial

Perseverance, responsibility

skills

ADDITIONAL INFORMATION

Relevant publications

- VRABIE, PM; ROSCA, CI; TRUSCA, DD; NEDELESCU, C; - Determination of rolling radius by analyzing the impact of a vehicle wheel with a fixed obstacle - INGINERIA AUTOMOBILULUI, Transylvania University of Brasov, ISSN 1842-4074, 2024, (Baza de date WOS) (ISI - Web of Sciences)
- RADU, AI; TOLEA, AB; TRUSCA, DD; ISPAS, N; NASTASOIU, M; - Development of a multibody model used to study the impact between a vehicle wheel with a pothole - INTERNATIONAL JOURNAL OF AUTOMOTIVE TECHNOLOGY, Transylvania University of Brasov; University of Oradea, ISSN 1229-9138, 2023, pag.1441-1446,
- NEDELESCU, C; CHIRU, A; BANU, G; VRABIE, PM; TRUSCA, DD; -Aspects regarding the night-time visibility of pedestrians - INGINERIA AUTOMOBILULUI, Transylvania University of Brasov, ISSN 1842-4074, 2022, pag. 14-18, (Baza de date WOS) (ISI - Web of Sciences)
- VRABIE, PM; ROSCA, CI; TRUSCA, DD; PREDA, I; NEDELESCU, C; - Vehicle tire static deformation -- INGINERIA AUTOMOBILULUI, SOC AUTOMOTIVE ENGINEERS ROMANIA, Transylvania University of Brasov, 17th European Automotive Congress / 32nd SIAR International Congress on Automotive and Transport Engineering / 3rd Motor Vehicle and Transportation Conference (EAEC-MVT), OCT 26-28, 2022. Polytechnic Univeristy Timisoara, Timisoara, ROMANIA, ISSN 1842-4074, 2022, pag. 21-24, numrar citari 1. (Baza de date WOS) (ISI - Web of Sciences)
- CONDREA, OA; TOGANEL, GR; TRUSCA, DD; - Deterministic throw model for longitudinal rear-end vehicle to cyclist collisions - INTERNATIONAL JOURNAL OF AUTOMOTIVE TECHNOLOGY, Transylvania University of Brasov, ISSN :1229-9138, 2021, pag 37-46, numar citari 2 (Baza de date WOS) (ISI - Web of Sciences)
- RADU, IA; TOGANEL, GR; TRUSCA, DD - Mathematical model validated by a crash test to be used as kinematic and dynamic study for side impacts - INTERNATIONAL JOURNAL OF AUTOMOTIVE TECHNOLOGY, Transylvania University of Brasov, ISSN 1229-9138, 2021, pag.12670-1277, numari citari 3 (Baza de date WOS) (ISI - Web of Sciences)
- VRABIE, PM; NEDELESCU, C; RADU, IA; TRUSCA, DD - Study on the consequences of the impact of the wheel of the vehicle with a fixed obstacle - INGINERIA AUTOMOBILULUI, ISSN1842-4074, 2021, pag. 22-24, numar citari 1, (Baza de date WOS) (ISI - Web of Sciences)
- RADU, AI; TRUSCA, DD; TOGANEL, GR; BENEA, B - Study regarding the side impact consequences upon the vehicle occupant using accident reconstruction software - INGINERIA AUTOMOBILULUI, ISSN 1842-4074, 2020, pag. 8-11. (Baza de date WOS) (ISI - Web of Science)
- RADU, AI; TRUSCA, DD; TOGANEL, GR. - Prediction model for sedan class vehicle braking distance on a flat surface using experimental braking tests for different road surfaces - INGINERIA AUTOMOBILULUI, ISSN 1842-4074, 2020, pag.10-14. (Baza de date WOS) (ISI - Web of Science)
- CONDREA, OA; CHIRU, A; TOGANEL, GR; TRUSCA, DD; CHIRIAC, RL - Case Study Regarding the Reconstruction of a Real Vehicle-Bicycle Accident- 30th SIAR International Congress of Science and Management of Automotive and Transportation Engineering (SMAT), SPRINGER INTERNATIONAL PUBLISHING AG, ,OCT 23-25, 2019, Univ Craiova, Craiova, ROMANIA, ISBN 978-3-030-32564-0, 2020, pag. 289-296. (Baza de date WOS), (ISI proceeding)