

PERSONAL INFORMATION **First name and Surname** George-Radu TOGĂNEL

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 g.toganel@unitbv.ro

 <https://mecanica.unitbv.ro/despre/departamentul-autovehicule-si-transporturi.html>

Gender Masculine | **Date of birth** - | **Nationality** Romanian

OCCUPATIONAL FIELD **Academic Education and Research**

PROFESIONAL EXPERIENCE **Academic education – Associated Professor**

2021- now

Department of Automotive and Transportation, Faculty of Mechanical Engineering, Transilvania University of Braşov

- Educational activity
- Research activity

Fields:

- 1. Vehicle dynamics. Traffic accident reconstruction. Passive and active safety. Automotive Electrics and Electronic Systems

2010 - 2021

Academic education – Lecturer

Department of Automotive and Transportation, Faculty of Mechanical Engineering, Transilvania University of Braşov

- Educational activity
- Research activity

Fields:

- 1. Vehicle dynamics. Traffic accident reconstruction. Passive and active safety. Automotive Electrics and Electronic Systems

2008 - 2010

Academic education – Assistant

Department of Automotive and Transportation, Faculty of Mechanical Engineering, Transilvania University of Braşov

- Educational activity
- Research activity

Fields:

- 1. Vehicle dynamics. Traffic accident reconstruction. Passive and active safety. Automotive Electrics and Electronic Systems

EDUCATION

2003 - 2008 **Ph.D. in the fundamental domain of ENGINEERING SCIENCES**

Transilvania University of Braşov. Title: "Cercetari privind influenta designului caroseriei asupra sigurantei pasive a automobilelor", 2008

1998 - 2003 **Eng. in specialization of Product Design**

Transilvania University of Braşov

PERSONAL COMPETENCES

Mother tongue Romanian

Other Languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Oras discourse	
English	B2	B2	B2	B2	B2

Common European Framework of Reference for Languages

Social skills and competences

- Dissemination of scientific papers in specialized congresses and conferences
- 2012 - present – Deputy Secretary of the University Admissions Committee;
- 2017 - present – Coordinator of the Road Vehicles study program (in English)

Organisational skills and competences

- TE Project Director 2010-2013
- good teamwork skills, experience in coordinating a group;
- experience in coordinating research and development projects in the automotive industry;

Technical skills and competences

- teaching, research and managerial skills demonstrated by publishing scientific articles and books in the field of automotive engineering, by participating as a member in the organizing committees of international events, by coordinating specific activities for the development of diploma projects and dissertations;

Digital competences

AUTOEVALUARE				
Information processing	Communication	Content creation	Digital Security	Problem solving
Advanced knowledge	Advanced knowledge	Advanced knowledge	Basic knowledge	Advanced knowledge

Other competences

- 2010 - prezent - Judicial technical expert, Ministry of Justice authorization no. 110 / 18.05.2010, in the field of motor vehicles, road traffic.

Driving license

B

ADDITIONAL INFORMATION

Publications
(selection)

- Radu, AI; **Toganel**, GR and 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**, Oct 2021, 22 (5) , pp.1267-1277, DOI 10.1007/s12239-021-0111-6;
- Condrea, OA; **Toganel**, GR and Trusca, DD, DETERMINISTIC THROW MODEL FOR LONGITUDINAL REAR-END VEHICLE TO CYCLIST COLLISIONS, **INTERNATIONAL JOURNAL OF AUTOMOTIVE TECHNOLOGY**, Feb 2021, 22 (1) , pp.37-46, DOI 10.1007/s12239-021-0005-7;
- [Condrea, OA](#); [Chiru, A](#); **Toganel, G**; [Trusca, DD](#), COMPARATIVE ANALYSIS OF THE CYCLIST SAFETY PERFORMANCES YIELDED BY EXTERNAL AND HELMET AIRBAGS , INGINERIA AUTOMOBILULUI, Vol: 51, Pag: 16-20, indexare ISI Web of Knowledge 2019;
- [Radu, AI](#) ; [Trusca, DD](#); **Toganel, G**; [Tolea, B](#), EFFICIENCY ANALYSIS OF PASSIVE SAFETY SYSTEMS IN VEHICLES IN THE CASE OF FRONTAL COLLISION USING EXPERIMENTAL TESTS, INGINERIA AUTOMOBILULUI, Vol: 51, Pag: 9-12, indexare ISI Web of Knowledge 2019;
- [Radu, AI](#); [Trusca, D](#); **Toganel, G**, Influence of tire pressure on the braking distance when driving on snow and asphalt, 8TH INTERNATIONAL CONFERENCE ON ADVANCED CONCEPTS IN MECHANICAL ENGINEERING, IOP Conference Series-Materials Science and Engineering, Volume: 444, Article Number: 072013, DOI: 10.1088/1757-899X/444/7/072013, indexare ISI Web of Knowledge 2018;
- **Toganel, George-Radu**; [Soica, Adrian Ovidiu](#), [A late and failure of airbag deployment case study for drivers of passenger cars in rear-end collisions](#), INTERNATIONAL CONGRESS OF AUTOMOTIVE AND TRANSPORT ENGINEERING - MOBILITY ENGINEERING AND ENVIRONMENT (CAR2017), IOP Conference Series-Materials Science and Engineering, Vol: 252, Article Number: UNSP 012005, indexare ISI Web of Knowledge 2018;
- [Soica, Adrian Ovidiu](#); **Toganel, George-Radu**, [Passenger head in impact with frontal airbag in OOP postures](#), INTERNATIONAL CONGRESS OF AUTOMOTIVE AND TRANSPORT ENGINEERING - MOBILITY ENGINEERING AND ENVIRONMENT (CAR2017), IOP Conference Series-Materials Science and Engineering, Vol: 252, Article Number: UNSP 012005, indexare ISI Web of Knowledge 2018;

Projects -
Main coordinator

- **TOGĂNEL, G.**, CNCIS/ TD_3-288-2007, " CERCETARI ASUPRA FACTORILOR DE INFLUENTA A GRAVITATII VATAMARII PIETONULUI", 2007, 12.000 RON;
- **TOGĂNEL, G.**, CNCIS/ TE_71/2010, "STUDIUL PRIVIND IMPACTUL, CU CAPUL, AL OCUPANTILOR AUTOVEHICULULUI IN CAZUL DIFERITELOR TIPURI DE COLIZIUNI", 2010-2013, 500.000 RON;

Data: 30.10.2024

Conf. dr. Ing. George TOGĂNEL

