

PERSONAL INFORMATION

ISABELA ERDELEAN (formerly Mocanu)



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✉ Isabela.Erdelean@ait.ac.at

Date of birth 29/06/1988 |

Nationality Romanian

POSITION

Research Engineer

AIT Austrian Institute of Technology, Vienna
Centre for Mobility Systems

WORK EXPERIENCE

September 2013 – present

Research Engineer

Centre for Mobility Systems, AIT Austrian Institute of Technology GmbH, Austria

Expertise:

- *Road traffic safety*
- *Vehicle-infrastructure interaction, driver-vehicle interaction*
- *Connected and automated transport, C-ITS*
- *Tunnel safety and management*
- *Cross-modality, multimodality*

International Project manager, with experience in coordination and participation in: USE-iT, FOX, ECORoads (H2020), TRIMM (FP7), PRIMA, REETS, ANACONDA, COBRA (CEDR, ERA-NET)

Leader and main contributor to European project proposals

Contributor to the Center Strategy Research Programme, leader of road safety team independent research project 2018

February – September 2013

Research freelancer

Mobility Department, AIT Austrian Institute of Technology GmbH, Austria

- *Vehicle dynamics of electric vehicles*
- *Road traffic safety*

July – October 2012

Intern

Mobility Department, AIT Austrian Institute of Technology GmbH, Austria

- *Research work in various projects on cooperative traffic systems and road safety*
- *Activate participation in the preparation and writing of reports and deliverables*

March – June 2011

Intern

THALES Group, Romania

- Familiarization with: *Electronic Interlocking Systems (Elektra I & II, ESTW L90 L95)*,
- *Rail Signalling Solutions (SASEV), Testing and Signalling*

March 2010 – July 2011 **Writer and Editor at ITS&S Newsletter (Intelligent Transport Systems and Services)**
Polytechnic University of Bucharest, Romania

- *Writing and editing scientific articles*
- *Active contribution to the overall content of the scientific magazine*

July – August 2008 **Intern**
July – August 2009 **S.C.AUTOMOTOINVEST.SA (SKODA), Romania**

- *Automotive engineering*
- *Testing electronic systems in vehicles*

OTHER SKILLS

Since April 2018 **External Expert Evaluator for the European Framework Programme H2020 (Transport)**

Since July 2017 **Member of TG Transport Safety of ECTRI (European Conference of Transport Research Institutes)**

Since June 2015 **Expert Reviewer for various European framework programmes (H2020), international conferences and journals (e.g. Transport Research Arena, ETRR, ITF Research Day)**

EDUCATION AND TRAINING

September 2011 – June 2013 **Master of Science in ENGINEERING**
University of Applied Sciences Technikum Vienna, Austria
Degree program: Intelligent Transport Systems
Thesis: “Driver behaviour adaptation to electric vehicles – An experimental study” (in English)

September 2007 – July 2011 **Diploma degree in TRANSPORT ENGINEERING**
Politehnica University of Bucharest, Faculty of Transports, Romania
Degree program: Electronics and Telecommunication in Transports
Thesis: “Electronic control of traction systems in airway transport “ (in Romanian)

PERSONAL SKILLS

Mother tongue(s) **Romanian**

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
Cambridge CAE (Certificate in Advanced English)					
French	B2	B2	B2	B1	B1

Spanish	B2	B2	B2	B2	A1
German	B1	B1	B1	B1	B1

SELECTED PUBLICATIONS

Erdelean I. and Saleh P. (2017). Cross-modal challenges and opportunities in transport safety". In *12th ITS European Congress Proceedings*. 12th ITS European Congress, 19-22 June 2017, Strasbourg, France. (Best Paper Award)

Mocanu, I., Nitsche, P. and Malone, K., (2016). The impacts of cooperative traffic systems on safety, environment and travel times: A literature survey. In *Traffic Management, First Edition*, Research for Innovative Transports Set – Volume 3, pp.277-292. Edited by Simon Cohen and George Yannis. ISBN 9781786300287, ISTE Ltd 2016 and John Wiley & Sons, Inc

Mocanu, I., Aichinger, C., Czuka, M., Saleh, P., Gasparoni, S., Fuchs, A., (2016). Dynamic and acoustic behavior of electric versus combustion vehicles. In *Transport Research Procedia*, 14, pp 2517-2526, 2016.

Peeling, J., Waymann, M., Mocanu, I., Nitsche, P., Potter, J., Rands, J., (2016). Energy Efficient Tunnel Solutions. In *Transport Research Procedia*, 14, pp1472-1481, 2016.

Nitsche, P., Olstam, J., Taylor, N., Reinthaler, M., Ponweiser, W., Bernhardsson, V., Mocanu, I., Uittenbogaard, J. and van Dam, E. (2016). Pro-active management of traffic incidents using novel technologies. In *Transport Research Procedia*, 14, pp 3360-3369, 2016.

Mocanu, I. et al., (2015). Virtual testing of highly automated vehicles using real world data. Presented at the 22nd ITS World Congress, Bordeaux, France, 9th October 2015.

Mocanu, I., (2015). Behavioral adaptation to electric vehicles – An experimental study. At Young Researchers Seminar, Rome, Italy, 17-19 June 2015

Mocanu, I., Nitsche, P. and Saleh, P., (2015). Highly automated driving and its requirements on road planning and design, In *25th World Road Congress Proceedings*. 25th World Road Congress, Seoul, South Korea, 2-6 November 2015

Nitsche, P., Mocanu, I. and Reinthaler, M., (2014). Requirements on Tomorrow's Road Infrastructure for Highly Automated Driving. In *Connected Vehicles and Expo (ICCVE), 2014 International Conference, IEEE*, vol., pp 939-940, 3-7 November 2014, doi: 10.1109/ICCVE.2014.7297694

Nitsche, P., Van Geem, C., Stütz, R., Mocanu, I. and Sjögren, L., (2014). Monitoring ride quality on roads with existing sensors in passenger cars. In *26th ARRB Conference Proceedings*. 26th ARRB Conference – Research driving efficiency. Sydney, New South Wales, October 21st, 2014.

Kirschbichler, S., Tomasch, E., Hoschopf, H., Moser, J., Stefan, C., Saleh, P., Mocanu, I., Etl, F., (2014). ALERT - Anforderungsliste an C2X Systeme zur Erhöhung der Verkehrssicherheit im Hinblick auf Müdigkeit, Ablenkung und Unaufmerksamkeit. VSF, bmvit, Wien, Wien, 2014.

Mocanu, I., (2013). Driver behaviour adaptation to electric vehicles – An experimental study. Master's Thesis, University of Applied Sciences Technikum Vienna, June 2013.