

Name **Mihai Duguleană**

 <https://duguleana.com>

Gender M | Nationality Romanian

## PROFESSIONAL EXPERIENCE

Nov 2023 – present **Head of department**

“Transilvania” University of Braşov, Braşov (Romania)  
Department of Automotive and Transportation, Faculty of Mechanical Engineering

Nov 2020 – Oct 2023 **Head of research centre**

R&D institute of “Transilvania” University of Braşov, Braşov (Romania)  
Virtual Industrial Informatics and Robotics

Mar 2021 – present **Professor**

“Transilvania” University of Braşov, Braşov (Romania)  
Digitization, Innovative Driver Assistance Technologies, Programming, Artificial Intelligence, Robotics, Human-Computer Interaction, Virtual Reality, Economy, Digital Cultural Heritage.

Oct 2018 – Feb 2021 **Assoc. Prof.**

“Transilvania” University of Braşov, Braşov (Romania)  
Digitization, Innovative Driver Assistance Technologies, Programming, Artificial Intelligence, Robotics, Human-Computer Interaction, Virtual Reality, Economy, Digital Cultural Heritage.

Oct 2015 – Sep 2018 **Lector**

“Transilvania” University of Braşov, Braşov (Romania)  
Digitization, Innovative Driver Assistance Technologies, Programming, Artificial Intelligence, Robotics, Human-Computer Interaction, Virtual Reality, Economy, Digital Cultural Heritage.

Oct 2012 – Sep 2015 **Researcher**

“Transilvania” University of Braşov, Braşov (Romania)  
Artificial Intelligence, Robotics, Virtual Reality, Networks, Databases (MySQL).

May 2009 – Sep 2009 **Internship**

IIT - Istituto Italiano di Tecnologia, Genova (Italy)  
Robotics, Video processing, Brain-Computer Interfaces (BCI).

Jun 2008 – Jul 2008 **Internship**

Raiffeisen Lujerului, Bucharest (Romania)  
Finances, Banks, Operations

Jun 2006 – Aug 2006 **Internship**

SIVECO, Bucharest (Romania)  
Linux, Networks.

Jun 2005 – Aug 2005 **Internship**

Transilvania Electric Company, Braşov (Romania)  
Linux, Networks.

## EDUCATION

- Jul 2019 **Habilitation with thesis "Innovative Automotive Technologies for Advanced Driver Assistance Systems (ADASs)"**  
University of Pitești, Faculty of Mechanical Engineering and Technology, Pitești (Romania)
- Oct 2013 – Apr 2015 **Postdoc with thesis " Car Assistant Based On Following The Driver's Eye-gaze Direction "**  
"Transilvania" University of Brașov, Faculty of Mechanical Engineering, Virtual Industrial Informatics and Robotics, Brașov (Romania)
- Oct 2008 – Sep 2011 **PhD with thesis "Learning mobile robots for movement and manipulation in industrial environments"**  
Transilvania" University of Brașov, Faculty of Product Design, Virtual Industrial Informatics and Robotics, Brașov (Romania)
- Oct 2009 – May 2010 **International Master in "Virtual Reality Technologies with Industrial Applications"**  
Scuola Superiore Sant'Anna, Pisa (Italy)
- Oct 2008 – May 2010 **Master in "Information and Communication Systems and Technologies"**  
Transilvania" University of Brașov, Faculty of Electrical Engineering and Computer Science, Department of Electronics and Communications, Brașov (Romania)
- Oct 2005 – May 2008 **Bachelor of Economic Sciences**  
Academy of Economic Studies, Faculty of Finance, Insurance, Banks and Stock Exchanges, Bucharest, Romania.
- Oct 2003 – May 2008 **Bachelor of Engineering**  
Politehnica University of Bucharest, Faculty of Automation and Computers, Computer Department, Bucharest, Romania.

## PERSONAL COMPETENCES

Main language Romanian

Foreign languages

	Understanding		Conversation		Writing
	Listening	Reading	Participation	Oral discourse	
English	C2	C2	C2	C2	C2
French	B1	B1	B1	B1	B1
Italian	A2	A2	A1	A1	A1
German	A2	A2	A2	A2	A2

## Informatic competences

- Programming languages:
  - C, C++ (intermediate)
  - Swift, Objective-C (beginner)
  - Java (intermediate)
  - PHP (advanced)
  - HTML / CSS (advanced)
  - Solidity (intermediate)
- Design and Simulation:
  - VRML, VREP, CATIA (advanced)
- Networking, Linux servers (intermediate)

## Driving license

B

## Additional information

## Projects

- **iDRIVE** - <https://idriveproject.ro/>  
UEFISCDI funded research project worth 100,000 EUR – Young Research Teams – **Coordinator**.
- **EHHERITAGE** - <http://eheritage.org/>  
EU funded research project worth 975,625 EUR – HORIZON2020 – **Coordinator**.
- **Awarding Horizon** - <http://eheritage.org/ro/>  
UEFISCDI funded research project worth 42,000 EUR – **Coordinator**.
- **NAVIEYES** - <http://navieyes.unitbv.ro/>  
Research project funded by the Ministry of National Education, no. 240 from 01/07/2014 (PN-II-PT- PCCA-2013-4-2023) – **Technical director**.
- **BRAINSPACE** - <http://brainspaceproject.org/>  
Research project funded by ROSA – **Scientific Manager**.
- **DILSimEV** - <http://www.dilsimev.ro/>  
Research project funded by the Ministry of National Education, PED 431 (PN-III-P2-2.1-PED-2019-4366) – Member.
- **ROBOCORE** - <http://www.cester.utcluj.ro/robocore/>  
Research project funded by the Ministry of National Education, no. 247 (PN-II-PT-PCCA-2013-4-0647) – Member.
- **SPINE** - <http://spine.unitbv.ro/>  
Research project funded by the Ministry of National Education, nr. 227 (PN-II-PT-PCCA-2013-4-1596) – Member.
- **PROROB** - <http://www.rvv.ro/prorob/>  
Research project funded by the Ministry of National Education, CNCISIS ID\_775/2008 – Member.

## Selection of publications

- **Duguleană, M.**, & Mogan, G. (2016). Neural networks based reinforcement learning for mobile robots obstacle avoidance. Expert Systems with Applications, 62, 104-115. DOI: 10.1016/j.eswa.2016.06.021
- Duguleană, A. R., Tănăsescu, C. R., & **Duguleană, M.** (2024). Emerging Trends in Play-to-Earn (P2E) Games. Journal of Theoretical and Applied Electronic Commerce Research, 19(1), 486-506, DOI: 10.3390/jtaer19010026.
- **Duguleană, M.**, Briciu, V. A., Duduman, I. A., & Machidon, O. M. (2020). A Virtual Assistant for Natural Interactions in Museums. Sustainability, 12(17), 6958. DOI: 10.3390/su12176958
- Machidon, O. M., **Duguleană, M.**; Carrozzino, M. (2018) Virtual humans in cultural heritage ICT applications: A review. Journal of Cultural Heritage. DOI: 10.1016/j.culher.2018.01.007
- Machidon, O. M., Tavčar, A., Gams, M., & **Duguleană, M.** (2020). CulturalERICA: A conversational agent improving the exploration of European cultural heritage. Journal of Cultural Heritage, 41, 152-165. DOI: 10.1016/j.culher.2019.07.010