Vlad Mihai Mihaly

Date of birth: 30/01/1995 | **Place of birth:** Sighisoara, Romania | **Phone number:** (+40) 751077495 (Mobile) |

Email address: vlad.mihaly@aut.utcluj.ro | **Address:** George Barițiu 26-28, 400502, Cluj-Napoca, Romania (Work)

WORK EXPERIENCE

TECHNICAL UNIVERSITY OF CLUJ-NAPOCA – CLUJ-NAPOCA, ROMANIA
LECTURER - DEPARTMENT OF AUTOMATION – 14/09/2025 – CURRENT

Teaching activities: System Identification (3rd Year - course, lab activity, project) and System Theory (2nd Year and 3rd - course, lab activity);
Research interests: Nonlinear Systems, Multi-Agent Systems, Robust Control, Data-Driven Control;

TECHNICAL UNIVERSITY OF CLUJ-NAPOCA – CLUJ-NAPOCA, ROMANIA
TEACHING ASSISTANT - DEPARTMENT OF AUTOMATION – 15/02/2021 – 13/09/2025

Teaching activities: System Identification (3rd Year - lab activity, project) and System Theory (2nd Year and 3rd - lab activity);
Research interests: Nonlinear Systems, Robust Control, Linear Systems;

ROMANIAN MATHEMATICAL SOCIETY – ROMANIA
NATIONAL MATHEMATICAL OLYMPIAD COMMITTEE - MEMBER – 2015 – CURRENT

Proposing and selecting problems for the competition tests and evaluating the student papers.

ROMANIAN MATHEMATICAL SOCIETY – ROMANIA
COORDINATOR – 2018 – CURRENT

I was in the restricted committee for establishing the marking schemes and I was a coordinator for the evaluation process of one problem for 20 countries at the International Mathematical Olympiad (2018). Furthermore, I was invited in the coordination committee at the following international contests: Balkan Mathematical Olympiad (2020), Romanian Master of Mathematics (2021-Present).

UPPER SCHOOL FOUNDATION – BUCHAREST, ROMANIA
PROFESSOR – 10/2021 – CURRENT

I teach two olympiad-level courses for high school students: \textit{Linear Algebra} (11th grade) and \textit{Abstract Algebra} (12th Grade), and I am a part of a team who prepares high school students for international competitions, my main directions being the Algebra and Combinatorics fields.

EDUCATION AND TRAINING

2020 – 2024 Cluj-Napoca, Romania
PHD DEGREE IN SYSTEM ENGINEERING (SUMMA CUM LAUDE) Technical University of Cluj-Napoca

Level in EQF EQF level 8

2018 – 2020 Cluj-Napoca, Romania
MASTER'S DEGREE IN ADVANCED PROCESS CONTROL - VALEDICTORIAN Technical University of Cluj-Napoca

Level in EQF EQF level 7

2014 – 2018 Cluj-Napoca, Romania
BACHELOR OF SYSTEMS ENGINEERING -- VALEDICTORIAN Automation and Computer Science Faculty,
Technical University of Cluj-Napoca

Level in EQF EQF level 6

PUBLICATIONS

Published Papers

I have published 44 papers as follows:
- 13 journal papers (10 papers in Q1 journals, such as IEEE/CAA Automatica Sinica, International Journal of the Franklin Institute);
- 31 conference papers (the vast majority in ISI indexed conferences, such ass *Conference on Decision and Control, American Control Conference, European Control Conference,* and so on).

A list of five relevant paper is:

2025
Fixed-Structure Robust Feedback Linearization for Full Relative Degree Nonlinear Systems

Authors: Vlad Mihaly, Mircea Șușcă, Petru Dobra | **Journal Name**: IEEE/CAA Journal of Automatica Sinica | **Volume, Issue and Pages**: vol. 12(10), pp. 1-14 | **Publisher**: IEEE/CAA Journal of Automatica Sinica

2024
Robust Numeric Implementation of the Fractional-Order Element

Authors: Vlad Mihaly, Mircea Șușcă, Petru Dobra | **Journal Name**: Journal of the Franklin Institute | **Volume, Issue and Pages**: vol. 361(14) | **Publisher**: Elsevier

2023
Maximizing the Exponential Decay Rate for Finite Dimensional Bilinear Systems using Passivity-Based Controllers

Authors: Vlad Mihaly, Mircea Șușcă, Petru Dobra | **Journal Name**: IEEE Conference on Decision and Control

2023
Exponential Rate for Bilinear Systems via Passivity-Based Controllers

Authors: Vlad Mihaly, Mircea Șușcă, Petru Dobra | **Journal Name**: IEEE Conf. on Control Technology and Applications

2023
Reduced-Order Approximation of Fractional-Order Controllers by keeping Robust Stability and Robust Performance

Authors: Vlad Mihaly, Mircea Șușcă, Isabela Bîrș, Petru Dobra | **Journal Name**: IEEE American Control Conference

HONOURS AND AWARDS

2024
Best Student Paper - 33rd RAAD Conference

V. Mihaly, I. Birlescu, M. Șușcă, D.C. Chablat, P. Dobra, "Continuous-Time Robust Control for Cancer Treatment Robots", *Advances in Service and Industrial Robotics*, Springer, 2024, doi: 10.1007/978-3-031-59257-7-19

2016
Gold Medal with maximum score - SEEMOUS 2016

2015
Second Prize

Open International Internet Mathematical Olympiad - Super Final - Individual Stage - Israel 2015.

2015
Gold Medal

Open International Internet Mathematical Olympiad - Individual Stage

2015
Silver Medal - SEEMOUS 2015

- ## SKILLS

mathematics | communication | work in teams

- ## LANGUAGE SKILLS

Mother tongue(s):   **ROMANIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	B2	B2	B2	B2	B2
FRENCH	A2	A2	A2	A2	A2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user