



Cristina Ioana Muresan

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Address: Memorandumului 28 , 400114, Cluj-Napoca, Romania (Work)

WORK EXPERIENCE

TECHNICAL UNIVERSITY OF CLUJ-NAPOCA – CLUJ-NAPOCA, ROMANIA
PROFESSOR – 01/10/2022 – CURRENT

TECHNICAL UNIVERSITY OF CLUJ-NAPOCA – CLUJ-NAPOCA, ROMANIA
ASSOCIATED PROFESSOR – 01/10/2016 – 30/09/2022

TECHNICAL UNIVERSITY OF CLUJ-NAPOCA – CLUJ-NAPOCA, ROMANIA
LECTURER – 01/10/2012 – 30/09/2016

TECHNICAL UNIVERSITY OF CLUJ-NAPOCA – CLUJ-NAPOCA, ROMANIA
ASSISTANT – 01/10/2011 – 30/09/2012

EDUCATION AND TRAINING

01/10/2007 – 01/05/2011 Cluj-Napoca, Romania
PHD IN SYSTEM ENGINEERING Technical University of Cluj-Napoca

01/05/2010 – 01/12/2010 Gent, Belgium
DOCTORAL RESEARCH MOBILITY Gent University

01/10/2007 – 01/02/2009 Cluj-Napoca, Romania
MASTER DEGREE IN ADVANCED PROCESS CONTROL Technical University of Cluj-Napoca

01/10/2002 – 01/07/2007 Cluj-Napoca, Romania
BACHELOR DEGREE SYSTEM ENGINEERING Technical University of Cluj-Napoca

01/10/2002 – 01/07/2006 Cluj-Napoca, Romania
ECONOMIST DEGREE Babes Bolyai University, Faculty of European Studies, Management of European Institutions

LANGUAGE SKILLS

Mother tongue(s): **ROMANIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C2	C2	C2	C2
SPANISH	B1	B1	A2	B1	A2
FRENCH	A1	A2	A1	A1	A1

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

● PROJECTS

01/10/2015 – 30/09/2017

Principal Investigator, Novel Fractional Order Control Strategies for Vibration Suppression in Aeroplane Wings

Grant TE 86/1.10.2015 , approx. 115 000 eur

Link www.cristina-muresan.com/research/te862015/

03/01/2017 – 03/07/2018

Principal Investigator, Scalable experimental setup of nanorobot dynamics in Non-Newtonian fluids for fractional order modelling and control

Grant 92PED/2017 approx. 125 000 eur

Link www.cristina-muresan.com/research/92ped2017/

02/05/2018 – 30/04/2020

Principal Investigator, Robust fractional order event-based control for optimised resource allocation in complex cyber-physical closed loop system

Grant TE65/2018 approx. 95 000 eur

Link www.cristina-muresan.com/research/te652018/

01/11/2020 – 31/10/2022

Principal Investigator, Novel Fractional Order Autotuners for Poorly Damped Systems to Ensure Improved Safety and Comfort

Grant TE143/2020 approx. 88.500 eur

Link www.cristina-muresan.com/research/te1432020/

01/02/2023 – 31/07/2024

Principal Investigator, CYBERMED- Cyber-medical solution for drug delivery systems using fractional calculus

PNRR-III-C9-2022 – I9, grant number 760018/27.01.2023, approx. 94.500 eur

Link www.cristina-muresan.com/research/cybermed-pnrr-i9-grant-no-76001827-01-2023/

01/07/2023 – 30/06/2026

Co-director, Centre of Excellence in Computer Assisted Systems for Drug Dosing Control and Optimisation

Grant no PNRR-III-C9-2022 – I8 760068/23.05.2023 CF 134/15.11.2022 approx. 1 382 000 eur

Link www.control.utcluj.ro/projects/optimdrug/#About

● PUBLICATIONS

More than 150 publications, with an h-index of 22

Link <https://scholar.google.com/citations?user=MOwryR4AAAAJ&hl=en>

● HONOURS AND AWARDS

11/05/2018

Award for Scientific contributions of fractional order control to vibration suppression systems – 3rd IFAC Conf. on Advances in Proportional-Integral-Derivative Control, Ghent, Belgium

01/06/2016

The 2016 Armen H. Zemanian Best Paper Award – Journal of Circuits, Systems, and Signal Processing

Award for paper "Improvements in Dissolved Oxygen Control of an Activated Sludge Wastewater Treatment Process" in the area of Circuits and Systems

01/06/2018

The 2016 M.N.S. Swamy Best Paper Award – Journal of Circuits, Systems, and Signal Processing

Award for paper "Improvements in Dissolved Oxygen Control of an Activated Sludge Wastewater Treatment Process"

● **INVITED TALKS/LECTURES/SPEAKER**

09/10/2016 – 12/10/2016

Invited Speaker at the Workshop on “Women in Engineering” IEEE International Conference on Systems, Man, and Cybernetics (SMC 2016)

07/04/2015 – 10/04/2015

Invited Lecturer at University of Cambridge

23/06/2015 – 27/06/2015

Invited lecturer at the International Summer Course, University of Ghent

2013

Tutorial lecturer “Who is afraid of the fractional order Laplace?”, IEEE Mediterranean Control Conference

30/07/2013 – 02/08/2013

Invited lecturer at the International Summer Course, University of Ghent

04/10/2021 – 06/10/2021

Invited speaker at the Second Online Conference on Nonlinear Dynamics and Complexity

● **ORGANISATIONAL SKILLS**

2016 – CURRENT

Associated editor at the International Journal of Dynamics and Control

2021 – CURRENT

Associated Editor Mathematics MDPI

2022 – CURRENT

Associated Editor Fractal and Fractional MDPI

Special Sessions Chair at the IEEE International Conference on Automation, Quality and Testing, Robotics 2022, 2024

2023 – CURRENT

Associated Editor ASME, Journal of Computational and Nonlinear Dynamics

Cristina I. Muresan

4.02.2026