

## PERSONAL INFORMATION



## Cristian Nicolae Boldișor

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Sex M | Nationality Romanian

## WORK EXPERIENCE

October 2005 - ongoing

## Lecturer / Teaching assistant

Transilvania University of Brașov,  
Faculty of Electrical Engineering and Computer Science (IESC),  
Department of Automation and Information Technology (ATI)

- Teaching and applied teaching activities (laboratory and projects) in subjects from the curriculum of the bachelor study program *Automatic Control and Applied Informatics*:

- *Signal Processing* – 2<sup>nd</sup> year,
- *Automatic Control Engineering* – 3<sup>rd</sup> year,
- *Introduction in Artificial Intelligence* (partially) – 3<sup>rd</sup> year,
- *Fuzzy Control Systems* – 4<sup>th</sup> year

and from the master's study program in *Advanced Systems in Automatic Control and Information Technologies*:

- *Computational Intelligence Techniques in Process Control* – 1<sup>st</sup> year)

- Administrative and managerial activities for the faculty and for the department:

- secretary of the Department of Automation during 2007-2010;
- member of the ATI Department Council from 2015;
- coordinator of *Automation and Applied Informatics* bachelor study program from 2018;
- member of the ATI Department's committee for quality assessment from 2015;
- member of the IESC Faculty Council from 2020;
- vicedean of IESC Faculty from October 2022;
- member of the Senate of Transilvania University of Brașov since March 2024;

- Student coordination for bachelor and master projects, in subjects as

- simulation of automatic control systems for some biomedical processes,
- numerical implementation of static and adaptive fuzzy control algorithms,
- adaptive, self-learning or neural-networks based control models.

- Research activities in subjects related to the above-mentioned courses or related to the department's research domains and projects (see the projects list below).

October 2002 - October 2005

## Associated teaching assistant

Transilvania University of Brașov,  
Faculty of Electrical Engineering and Computer Science (IESC),  
Department of Automation and Information Technology (ATI)

- Responsible with laboratory supervision and grade assessment for courses from the curriculum of the bachelor study program *Automatic Control and Applied Informatics*:

- *Signal Processing* – 2<sup>nd</sup> year,
- *Automatic Control Engineering* – 3<sup>rd</sup> year,
- *Fuzzy Control Systems* – 4<sup>th</sup> year.

## EDUCATION AND TRAINING

October 2005 – September 2010

## PhD studies

Transilvania University of Brașov

- Domain: *Electrical Engineering*
- Title of thesis: *Research on the use of neuro-fuzzy techniques for automatic control of mean arterial pressure and heart rate*
- PhD supervisor: prof. dr. ing. Iulian ȚOPA
- Main topics: models of mean arterial pressure and heart rate under sodium nitroprusside and dopamine; fuzzy and neuro-fuzzy control algorithms; design of fuzzy controllers, including neuro-fuzzy learning algorithms.

October 1997 – July 2002

### Bachelor studies

- Domain: *Systems Engineering*,
- Study program: *Automation and Applied Informatics*
- Transilvania University of Brașov, Faculty of Electrical Engineering and Computer Science

September 1992 – July 1997

### High school

Brașov Informatics High School ("Grigore Moisil" National College of Informatics, Brașov),  
Informatics profile

## PERSONAL SKILLS

Mother tongue Romanian

Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B1	B1	B1

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user  
Common European Framework of Reference for Languages

Communication skills

- Efficient communication and mediation skills, consolidated throughout my teacher career, also including administrative / managerial responsibilities.

Organizational / managerial skills

- Relevant experience and skills in administrative and managerial activities within the Department of Automation and Information Technology: member of the Department Council, member of the Faculty Council, coordinator of Automation and Applied Informatics study program.

Job-related skills

- Theoretical and practical experience in subjects related to teaching and research activities:
  - continuous / discrete control systems – model analysis, controller design, simulations, analog or numerical implementation of control algorithms;
  - fuzzy and neuro-fuzzy models and control algorithms;
  - adaptive / self-learning fuzzy control algorithms.

Computer skills

- Highly experienced in using office software applications for editing documents, including figures and images: Microsoft Office package, CorelDraw, Adobe Photoshop.
- Highly experienced in websites design and programming, server-side and client-side: PHP language, MySQL databases, HTML, CSS, JavaScript.
- Highly experienced in Matlab and Simulink.

Driving licence

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## ADDITIONAL INFORMATION

ISI Web of Science indexed  
journal articles

- Tsopra, R., et al, *A framework for validating AI in precision medicine: considerations from the European ITFoC consortium*, BMC Medical Informatics and Decision Making, 2021. <https://doi.org/10.1186/s12911-021-01634-3>.
- Ciusdel, C., et al, *Effect of Linearization in a WNT Signaling Model*, Computational and Mathematical Methods in Medicine, 2019. <https://doi.org/10.1155/2019/8461820>.

Scopus indexed  
journal articles

ISI Web of Science indexed  
conference articles / proceedings  
(most relevant)

## Other relevant publications

## Research projects

- Boldișor, C., Comnac V., Coman, S., Grigorescu, S., *A Combined Experience and Model Based Design Methodology of a Fuzzy Control System for Mean Arterial Pressure and Cardiac Output*, Proc. of the 18th World Congress of the Int. Federation of Automatic Control, Milano, Italy, Aug 28-Sep 2, 2011, Vol. 18, Part 1, pp. 2889-2894. <https://doi.org/10.3182/20110828-6-IT-1002.01592>.
  - Coman, S., Boldișor, C., Floroian, L., *Fractional Adaptive Control for a Fractional - Order Insulin - Glucose Dynamic Model*, 2017 Joint Int. Conf. on Optimization of Electrical and Electronic Equipment (OPTIM) & 2017 Aegean Conf. on Electrical Machines and Power Electronics (ACEMP), Brașov, România, May 25–27, 2017, pp. 594-599, <https://doi.org/10.1109/OPTIM.2017.7975082>.
  - Boldișor, C., Comnac, V., Coman, S., *Using the Iterative Learning Algorithm as Data Source for ANFIS Training*, Proc. of the 2010 IEEE Int. Conf. on Automation, Quality and Testing, Robotics - AQTR 2010, Cluj-Napoca, România, May 28-30, 2010, pp. 354-359. <https://doi.org/10.1109/AQTR.2010.5520759>.
  - Boldișor, C., Comnac, V., Țopa, I., Coman, S., *A Comparative Analysis of Two Self-learning Based Strategies for Fuzzy Controller Design*, Proc. of the 12th Int. Conf. on Optimization of Electrical and Electronic Equipment – OPTIM 2010, Brașov, România, May 20-22, 2010, pp. 837-842. <https://doi.org/10.1109/OPTIM.2010.5510432>.
  - Coman, S., Boldișor, C. *Robust and Adaptive Systems. Laboratory manual* (in Romanian: *Sisteme adaptive și robuste. Îndrumar de laborator*), Transilvania University of Brașov Publishing House, 2018.
  - Comnac, V., Coman, S., Boldișor, C., *Continuous liniar systems* (in Romanian: *Sisteme liniare continue*), Transilvania University of Brașov Publishing House, 2009.
  - Boldișor, C., Comnac, V., Coman, S., *Artificial intelligence techniques. Laboratory manual* (in Romanian: *Tehnici de inteligență artificială. Îndrumar de laborator*), Transilvania University of Brașov Publishing House, 2009.
  - Coman S., Comnac V., Boldișor C., *Systems theory. Laboratory manual* (in Romanian: *Teoria sistemelor. Îndrumar de laborator*), Transilvania University of Brașov Publishing House, 2009.
  - Comnac, V., Moldoveanu, F., Boldișor, C., *Systems theory: modeling, design, discrete systems* (in Romanian: *Teoria sistemelor: modelare, proiectare, sisteme discrete*), Lux Libris, Brașov, 2007.
- Team member in the following research projects:
- PN II – HEART, *High PErformance Computing of PersonAlized CaRdio Component Models*, funded by UEFISCDI, Transilvania University of Brașov coordinator, 2012-2016;
  - EU's Seventh Framework Programme for Research - *MD PAEDIGREE, Model-Driven European Paediatric Digital Repository*, funded by EU Commission, Transilvania University of Brașov partner, 2013-2017;
  - EU's Horizon H 2020 – ICT – 18 – 2016 – *MHMD, My Health My Data*, funded by EU Commission, Transilvania University of Brașov partner, 2016-2019;
  - FLAG-ERA JTC 2016 – CONVERGENCE, *Frictionless Energy Efficient Convergent Wearables for Healthcare and Lifestyle Applications*, funded by EU Commission, Transilvania University of Brașov partner, 2017-2020;
  - FLAG-ERA JTC 2016 - *ITFoC, Information Technology: The Future of Cancer Treatment*, funded by EU Commission, Transilvania University of Brașov partner, 2017-2020;
  - FLAG-ERA JTC 2016 – *RoboCom++, Rethinking Robotics for the Robot Companion of the Future*, funded by EU Commission, Transilvania University of Brașov partner, 2017-2020;
  - FLAG-ERA JTC 2016 - *FuturICT2.0, Large Scale Experiments and Simulations for the Second Generation of FuturICT*, funded by EU Commission, Transilvania University of Brașov partner, 2017-2020.
  - ERA -PerMeD JTC2019 - *PeCaN - Parameterisation of large scale cancer models for personalised therapy of triple negative breast cancer*, funded by EU Commission, Transilvania University of Brașov coordinator, 2020-2023.
  - EU's Horizon H 2020 – SC1-DTH-06-2020, *SIMCor – In-Silico testing and validation of Cardiovascular Implantable devices*, funded by EU Commission, Transilvania University of Brașov partner, 2021-2023.
  - ERA -PerMeD JTC2020 – *PROGRESS - PREcisiOn medicine in CAD patients: artificial intelliGence for integRated gEnomic, functional and anatomical aSSessment of the coronary collateral circulation*, funded by EU Commission, Transilvania University of Brașov coordinator, 2021-2023.

June 9, 2025

