



## Claudia-Adina Bojan-Dragos

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### WORK EXPERIENCE

POLITEHNICA UNIVERSITY OF TIMISOARA – TIMISOARA, ROMANIA  
**ASSOCIATE PROFESSOR** – 2022 – CURRENT

POLITEHNICA UNIVERSITY OF TIMISOARA – TIMISOARA, ROMANIA  
**LECTURER** – 2015 – 2022

POLITEHNICA UNIVERSITY OF TIMISOARA – TIMISOARA, ROMANIA  
**ASSISTANT PROFESSOR** – 2012 – 2015

### EDUCATION AND TRAINING

2008 – 2011 Timisoara, Romania  
**PHD DEGREE (ACADEMIC TITLE OF DOCTOR)** Politehnica University of Timisoara

2007 – 2009 Timisoara, Romania  
**MASTER DEGREE** Politehnica University of Timisoara

2002 – 2007 Timisoara, Romania  
**DIPL.-ENGINEER DEGREE** Politehnica University of Timisoara

1998 – 2002 Faget, Romania  
**BACCALAUREATE IN MATHEMATICS-PHYSICS** Theoretical High School "Traian Vuia"

### LANGUAGE SKILLS

Mother tongue(s): **ROMANIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
<b>ENGLISH</b>	C1	C1	B1	B2	C2

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

### RESEARCH INTERESTS

#### FIELDS OF SCIENTIFIC INTEREST

- Development and analysis of new control structures and algorithms, including conventional control, fuzzy control, predictive control, two-degree-of-freedom control, sliding mode control, etc.
- Applications to mechatronics systems (including automotive systems and mobile robots), embedded systems, control of power plants, servo systems, electrical driving systems, etc.
- Systems modelling, identification and optimization (including nature-inspired algorithms)



## • THE RESEARCH ACTIVITY

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### PUBLICATIONS

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- Cumulative Clarivate Analytics Web of Science (formerly ISI Web of Knowledge) impact factor (IF) = 81.1.
- 1 book (<https://www.aut.upt.ro/~claudia.dragos/Publications.html>).
- 12 book chapters (<https://www.aut.upt.ro/~claudia.dragos/Publications.html>).
- 19 papers in Clarivate Analytics Web of Science (formerly ISI Web of Knowledge) journals (<https://www.aut.upt.ro/~claudia.dragos/Publications.html>).
- Over 150 papers published contributions in refereed academic conferences (<https://www.aut.upt.ro/~claudia.dragos/>).
- 2454 citations, h-index = 23 and i10-index = 56 according to Scholar Google, ([https://scholar.google.ro/citations?user=oWLCV\\_4AAAAJ&hl=ro](https://scholar.google.ro/citations?user=oWLCV_4AAAAJ&hl=ro)).
- 1512 citations in Thomson Reuters Web of Science (formerly ISI Web of Knowledge) articles of my 117 Clarivate Analytics Web of Science articles, h-index = 21 according to Clarivate Analytics Web of Science; (<https://www.webofscience.com/wos/author/record/AAY-6390-2021>).
- 2049 citations in Scopus articles of my 152 Scopus articles, h-index = 23 according to Scopus; (<https://www.scopus.com/authid/detail.uri?authorId=27367710400>).
- The address of and the link to the Open Researcher & Contributor ID (ORCID): <https://orcid.org/0000-0003-2465-9283>.

### QUANTITATIVE QUALITY INDICES FOR THE RESULTS

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- Cumulative Clarivate Analytics Web of Science (formerly ISI Web of Knowledge) impact factor (IF) = 39.9.
- Cumulative Article Influence Score (AIS):  $A = 1.276/6 + 0.551/6 + 0.302/6 + 0.272/5 + 0.453/6 + 0.390/5 + 0.302/5 + 0.551/7 + 0.170/3 = 0.7585$ .
- 3 papers in Q2 quartile according to AIS 2022 (JCR as of June 2023).
- 3 national research contracts and grants in the field of automatic control, director to one of them.
- One international research contract (member) in 2023-2025 with Zhejiang University (China), partners: Swedish National Road and Transport Research Institute (Sweden), Chalmers University of Technology (Sweden), Chongqing University (China), The Hong Kong Polytechnic University Shenzhen Research Institute (China), WSP Sverige AB (Sweden), FellowBot AB (Sweden), Hangzhou Comprehensive Transportation Center (China), Enjoyor Ltd Co. (China).

## • AWARDS

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**Best Paper Award at 7th International Conference on Information Technology and Quantitative Management ITQM 2019 (Granada, Spain)**

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## • PUBLICATIONS

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### 5 most representative scientific results

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1. R.-E. Precup, R.-C. Roman, E.-L. Hedrea, E. M. Petriu, C.-A. Bojan-Drăgoș, and A.-I. Szedlak-Stînean, "Metaheuristic-based tuning of proportional-derivative learning rules for proportional-integral fuzzy controllers in tower crane system payload position control," *Facta Universitatis, Series: Mechanical Engineering* (University of Nis), vol. 22, no. 4, pp. 567-582, 2024.
2. C.-A. Bojan-Drăgoș, R.-E. Precup, E. M. Petriu, R.-C. Roman, E.-L. Hedrea, and A.-I. Szedlak-Stînean, "GWO-based optimal tuning of controllers for shape memory alloy wire actuators," *IFAC-PapersOnLine*, vol. 55, no. 15, pp. 39-44, Jul. 2022.
3. C.-A. Bojan-Drăgoș, R.-E. Precup, S. Preitl, R.-C. Roman, E.-L. Hedrea, and A.-I. Szedlak-Stînean, "GWO-based optimal tuning of type-1 and type-2 fuzzy controllers for electromagnetic actuated clutch systems," *IFAC-PapersOnLine*, vol. 54, no. 4, pp. 189-194, 2021.
4. R.-E. Precup, C.-A. Bojan-Drăgoș, E.-L. Hedrea, R.-C. Roman, and E. M. Petriu, "Evolving fuzzy models of shape memory alloy wire actuators," *Romanian Journal of Information Science and Technology* (Romanian Academy, Section for Information Science and Technology), vol. 24, no. 4, pp. 353-365, 2021.
5. R.-C. Roman, R.-E. Precup, C.-A. Bojan-Drăgoș, and A.-I. Szedlak-Stînean, "Combined model-free adaptive control with fuzzy component by virtual reference feedback tuning for tower crane systems," *Procedia Computer Science* (Elsevier), vol. 162, pp. 267-274, 2019.



## ● PROJECTS

### RESEARCH CONTRACTS AND GRANTS

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- **2020-2022:** Director of the national research grant National Research Grant Human Resources Young Teams Research Projects 2019 entitled "Fuzzy controllers for shape memory alloys systems", 89000 EUR, financed by the Executive Agency for Higher Education, Research, Development and Innovation Funding (TE, UEFISCDI)
- **2023 - 2025:** Member of the research grant, Electric Multimodal Transport Systems for Enhancing Urban Accessibility and Connectivity (e-MATS), 699469 EUR to the European partners, 250000 EUR to UPT, 4000000 RMB (equivalent 510509.63 EUR) to the Chinese partners, director of the project coordinator China: Prof. Sheng Jin (Zhejiang UniversityChina), partners: Swedish National Road and Transport Research Institute (Sweden), Chalmers University of Technology (Sweden), Chongqing University (China), The Hong Kong Polytechnic University Shenzhen Research Institute (China), WSP Sverige AB (Sweden), FellowBot AB (Sweden), Hangzhou Comprehensive Transportation Center (China), Enjoyor Ltd Co. (China) (JPI Urban Europe ERA-Net Co-fund Urban Accessibility and Connectivity (EN-UAC) Sino-European call), director coordinator Europe: Prof. Dr. Engr. Radu-Emil PRECUP, Politehnica University of Timisoara
- **2021-2023:** Member of the UPT partner in the research project "Data-driven fuzzy control with experimental validation", 249844.58 EUR, national exploratory research grant (PCE, Executive Agency for Higher Education, Research, Development and Innovation Funding - UEFISCDI)
- **2019 - 2023:** Member in the non-research project POCU-AP nr.6 PI 10.ii. - cod SMIS nr. 122333, Program Operațional Capital Uman (Fonduri Structurale Europene), director of UTCB: Giorgian NECULOIU, director of the UPT partner: Florin DRĂGAN.
- **2017 - 2018:** Director of the Institutional Research Grant "Research and development projects for young researchers" (in Romanian, Proiecte de Cercetare-Dezvoltare pentru tineri cercetatori) PCD-TC-2017, entitled "Tensor product model transformation-based adaptive control techniques with mechatronics applications", 10000 EUR, competition organized and financed by Politehnica University of Timisoara

### RESEARCH CONTRACTS AND GRANTS

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- **2014 - 2017:** Member of the UPT partner in the research project "Advanced control system of a biorefinery plant" (BIOCON), 284091 EUR, national joint applied research project (PCCA, UEFISCDI), director: Prof. Sergiu Caraman, "Lower Danube" University of Galati, director of the UPT partner: Prof. Radu-Emil Precup
- **2014 - 2017:** Member of the UPT partner in the research project "Advanced control systems for bioprocesses in food industry" (ADCOSBIO), 238637 EUR, national joint applied research project (PCCA, UEFISCDI), director: Prof. Dan Selisteanu, University of Craiova, director of the UPT partner: Prof. Radu-Emil Precup
- **2014 - 2017:** Member in the research project "Experimental model for an automatic capacitive compensator designed for improving the power factor and for load balancing in low-voltage electricity distribution networks" (CAEREDJT), 235102 EUR, national joint applied research project (PCCA, UEFISCDI), director: Assoc. Prof. Adrian Pana, UPT
- **2012 - 2016:** Member of the UPT partner in the research project "Software products based on artificial intelligence algorithms applied to modelling and optimization of chemical systems" (AISoftChim), 362903 EUR, national joint applied research project, director: Prof. Silvia Curteanu, "Gheorghe Asachi" Technical University of Iasi, director of the UPT partner: Prof. Radu-Emil Precup
- **2011 - 2016:** Member of the UPT partner in the research project "New performance improvement techniques of control systems using experiment-based tuning", 339907 EUR, national exploratory research grant (PCE, UEFISCDI), director of the UPT partner: Prof. Radu-Emil Precup
- **2008 - 2011:** Doctoral researcher, member of the UPT research team (director of the UPT partner: Prof. Radu-Emil Precup), "Real-time informatics technologies for embedded-system-control of power-train in automotive design and applications" (SICONA), 500000 EUR, Romanian research contract, The National Centre for Programme Management (CNMP), Prof. Corneliu Lazar, director of the project coordinator, "Gheorghe Asachi" Technical University of Iasi, Romania.

## ● EDITORIAL AND SCIENTIFIC COMMITTEES

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### Editorial Board

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Member of the Editorial Board at Paladyn—Journal of Robotics, Intelligent Agents, and Artificial Intelligence—SCOPUS (since 2025)

### Program Committees

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Member of the International Program Committee of ICINCO (since 2023).



## Organizing Committees

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- Member of Organizing Committee of International Conference on System Theory, Control and Computing (in 2019 and 2023)
- Member of the Organizing Committee of the International Symposium on Applied Computational Intelligence and Informatics (since 2018).

## Scientific and Professional Memberships

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- Member of the Romanian Society for Automation and Technical Informatics (SRAIT) (since 2008).
- Member of the IEEE—since 2015
- Member of the IEEE Systems, Man, and Cybernetics Society—since 2015

## ● REVIEWING

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### Journal reviewer

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- Asian Journal of Control
- Applied Soft Computing
- Expert Systems with Applications
- Neurocomputing
- IEEE Transactions on Fuzzy Systems
- IEEE Transactions on Industrial Electronics
- International Journal of Dynamics and Control
- Journal of Engineering and Applied Science

### Conference reviewer

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- 22nd International Conference on Informatics in Control, Automation and Robotics (ICINCO2025)
- 21st International Conference on Informatics in Control, Automation and Robotics (ICINCO2024)
- The Symposium on Educational Advances in Artificial Intelligence (EAAI2023)
- 20th International Conference on Informatics in Control, Automation and Robotics (ICINCO2023)
- 27<sup>th</sup> International Conference on System Theory, Control and Computing (ICSTCC2023),
- 28th International Conference on Methods and Models in Automation and Robotics (MMAR2023), CESCIT 2021,
- IEEE SysCon 2020,
- 23rd International Conference on System Theory, Control and Computing Joint Conference (ICSTCC2019),
- European Control Conference (ECC2016),
- EUROCON 2015,
- 41<sup>st</sup> Annual Conference of the IEEE Industrial Electronics Society (IECON15),
- 15<sup>th</sup> International Conference on System Theory, Control and Computing Joint Conference (ICSTCC2011)

## ● TEACHING (2007 - PRESENT)

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### Lectures and laboratories

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- Computer Assisted Mathematics (lectures + laboratories, B.Sc. program in Automation and Applied Informatics).
  - Optimization Techniques (laboratories, B.Sc. program in Automation and Applied Informatics).
  - Process Control Structures and Algorithms (laboratories + projects, B.Sc. program in Automation and Applied Informatics).
  - Control Engineering (laboratories, B.Sc. program in Automation and Applied Informatics).
  - Elements of Automatic Control (laboratories, B.Sc. program in Power Systems).
  - Automatic Control Technique (laboratories, B.Sc. program in Electrical Engineering).
  - Intelligent autonomous equipment(lectures + laboratories, B.Sc. program in Automation and Applied Informatics).
  - Fuzzy Control Systems (lectures + laboratories + projects, B.Sc. program in Automation and Applied Informatics).
  - Control Systems in Autovehicles (lectures and laboratories + projects, M.Sc. program in program in Automatic Systems Engineering).
  - Advanced Controlled Systems (laboratories + projects, M.Sc. program in program in Automatic Systems Engineering).
  - Intelligent Control Systems (laboratories + projects, M.Sc. program in program in Automatic Systems Engineering).
  - Multi-agent Systems (lectures + projects, M.Sc. program in Automotive Embedded Software).
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