

CURRICULUM VITAE

PERSONAL INFORMATION

Name: SZEDLAK-STÎNEAN Alexandra-Iulia

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Gender: Female

Date of Birth: 31/07/1984

Nationality: Romanian

OFFICIAL ADDRESS

Politehnica University of Timisoara

Faculty of Automation and Computers

Department of Automation and Applied Informatics

Bd. V. Parvan no. 2

RO-300223 Timisoara

Romania

Phone: +40-256-403213 (dean), +40-256-403229 (office)

EDUCATION

2010–2014: Ph.D. in Systems Engineering at the Department of Automation and Applied Informatics, Politehnica University of Timisoara, Romania

2008–2010: M.Sc. thesis in Automatic Systems at Faculty of Automation and Computers, Politehnica University of Timisoara, Romania

2003–2008: Dipl. Eng. degree in Systems and Computer Engineering at Faculty of Automation and Computers, Politehnica University of Timisoara, Romania

1999–2003: Undergraduate studies in Mathematics-Informatics at the National College “Aurel Vlaicu” Theoretical High School, Orastie, Romania

WORKING EXPERIENCE

December 2022–Present: Vice-Dean at the Faculty of Automation and Computers, Politehnica University of Timisoara, Romania

February 2018–Present: Lecturer within the Department of Automation and Applied Informatics, Politehnica University of Timisoara, Romania

2015–2018: Assistant Lecturer within the Department of Automation and Applied Informatics, Politehnica University of Timisoara, Romania

2010–2012: Teacher of Informatics and Information Technology and Communications for students at the National College “Constantin Diaconovici Loga”, Timisoara, Romania

FIELDS OF SCIENTIFIC INTEREST

- Control structures and algorithms (conventional control, fuzzy control, neuro-fuzzy control, predictive control, adaptive control, sliding mode control);
- Control applications in mechatronics systems, servo-systems, electrical drives; nature-inspired optimization;
- Linear and nonlinear observers-based control structures applied to mechatronics systems;

MEMBER OF SCIENTIFIC AND TECHNICAL SOCIETIES

- Member of the Romanian Society of Automation and Technical Informatics (SRAIT)
- Member of the Robotics Society of Romania (SRR)
- IEEE Member (since 2015)
- Member of Organizing Committee of International Symposium on Applied Computational Intelligence and Informatics (since 2018)
- Member of Organizing Committee of International Conference on System Theory, Control and Computing (since 2019)

PUBLICATIONS

- Cumulative Clarivate Analytics Web of Science (formerly ISI Web of Knowledge) impact factor (IF) = 51.7.
- 6 book chapters
- 8 Papers in Clarivate Analytics Web of Science (formerly ISI Web of Knowledge) journals
- Over 60 papers published contributions in refereed academic conferences (<https://www.aut.upt.ro/~alexandra-iulia.stinean/>)
- 1115 citations, h-index = 15 and i10-index = 28 according to Scholar Google, (<https://scholar.google.com/citations?user=64I6y8EAAAAJ&hl=ro&oi=ao>).
- 668 citations in Thomson Reuters Web of Science (formerly ISI Web of Knowledge) articles of my 59 Clarivate Analytics Web of Science articles, h-index = 11 according to Clarivate Analytics Web of Science; (<https://publons.com/researcher/2177844/alexandra-iulia-szedlak-stinean/>).
- 924 citations in Scopus articles of my 78 Scopus articles, h-index = 13 according to Scopus; (<https://www.scopus.com/authid/detail.uri?authorId=42262793300>).
- The address of and the link to the Open Researcher & Contributor ID (ORCID): <https://orcid.org/0000-0002-1572-2060>

QUANTITATIVE QUALITY INDICES FOR THE RESULTS OF THE RESEARCH ACTIVITY IN 2019-2023

- Cumulative Clarivate Analytics Web of Science (formerly ISI Web of Knowledge) impact factor (IF) = 40.3.
- Cumulative Article Influence Score (AIS):
 $A = 0.651/7 + 0.272/5 + 0.651/7 + 0.302/7 + 0.453/6 + 0.349/5 + 1.276/6 + 0.720/5 = 0.785$.
- 1 paper in Q1 quartile according to AIS 2022 (JCR as of June 2023).
- 3 papers in Q2 quartile according to AIS 2022 (JCR as of June 2023).

- 4 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

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

ADDITIONAL INFORMATION

- Session Co-Chair at the 9th Asian Control Conference (ASCC 2013), Istanbul, Turkey.
- Session Chair at the 14th International Conference on Informatics in Control, Automation, and Robotics (ICINCO 2017), Madrid, Spain.
- Session Chair at the 9th International Conference on Computers, Communications, and Control (ICCCC 2022), Băile Felix, Oradea, Romania.

FUNDING ID (Past research and grants)

<https://www.aut.upt.ro/~alexandra-iulia.stinean/>

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 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) (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 (please visit the [project website](#), [link](#)).

2021-2023: member of the national research grant National Research Grant Human Resources Exploratory Research Projects 2020 entitled "Data-driven fuzzy control with experimental validation", 243000 EUR, financed by the Executive Agency for Higher Education, Research, Development and Innovation Funding (PCE, UEFISCDI), director: Prof. Radu-Emil PRECUP, UPT (please visit the [project website](#), [link](#)).

2020-2022: member 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), director: Assoc. Prof. Claudia-Adina Bojan-Dragos, UPT (please visit the [project website, link](#)).

2021 (december)-30.11.2022: director, project coordinator of the research contract titled "Nonlinear Observers-based control structures applied to mechatronic Systems (NOBSMECS) ", 220,169 lei, (please visit the [project website, link](#)).

2018 (october)-2019 (september): director, project coordinator of the research contract titled "Nonlinear Observers-based control structures applied to mechatronic Systems (NOBSMECS) ", 220,169 lei, (please visit the [project website, link](#)).

2015–2017: member of the national research grant Young Teams “Learning techniques for improving control systems performance using model-free approaches”, 83114 EUR, financed by the Executive Agency for Higher Education, Research, Development and Innovation Funding (TE, UEFISCDI), director: Lect. Mircea-Bogdan Radac, UPT, (please visit the attached [link](#)).

2014–2017: member of the UPT partner 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), director of the UPT partner: Assoc. Prof. Adrian Pana (please visit the attached [link](#))

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 (please visit the attached [link](#))

2014–2017: member of the UPT partner in the research project “Advanced control system of a biorefinery plant” (BIOCON), 284091 EUR (PCCA, UEFISCDI), director: Prof. Sergiu Caraman, “Lower Danube” University of Galati, director of the UPT partner: Prof. Radu-Emil Precup (please visit the attached [link](#))

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 (PCCA, UEFISCDI), director: Prof. Silvia Curteanu, “Gheorghe Asachi” Technical University of Iasi, director of the UPT partner: Prof. Radu-Emil Precup (please visit the attached [link](#) and [link](#))

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: Prof. Radu-Emil Precup (please visit the attached [link](#)).

CURRENT POSITION

Vice-Dean at the Faculty of Automation and Computers and Lecturer within the Department of Automation and Applied Informatics, Politehnica University of Timișoara

Main Activities and Responsibilities:

- **Teaching activities (2014–present)** at several disciplines such as: *System Theory and Automatization* (laboratories, B.Sc. program in Computer and Information Technology), *Computer Assisted Mathematics* (laboratories, B.Sc. program in Automation and Applied Informatics (AAI)), *Optimization Techniques* (laboratories, B.Sc. program in

AAI), *Structures and Algorithms for Automatic Process Control* (laboratories + projects, B.Sc. program in AAI), *Elements of Automatic Control* (laboratories, B.Sc. program in Power Systems), *Automatic Control Technique* (laboratories, B.Sc. program in Electrical Engineering), *Computer Assisted Mathematics* (course and laboratories, B.Sc. program in Computer Science ID), *Multi-agent Systems* (course and laboratories, master program Applied Information Systems in Production and Services), *Robotics* (course and laboratories, master program Machine Learning), *Computer Assisted Mathematics* (course and laboratories, B, Sc. program in Computers and Information Technology – English).

- **Since 2014:** Supervisor of bachelor's and master's theses in Systems Engineering at Politehnica University of Timișoara
- **Since 2011:** Member of the Research Center in Systems Engineering Automation at Politehnica University of Timișoara (<http://www.aut.upt.ro/centru-cercetare/>).