Teodora Sanislav

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WORK EXPERIENCE

TECHNICAL UNIVERSITY OF CLUJ-NAPOCA – CLUJ-NAPOCA, ROMANIA
Business or Sector Education | **Department** Department of Automation

ASSOCIATE PROFESSOR – 01/03/2025 – CURRENT

- Teaching
    - Courses, laboratories and projects:
        - Computer Programming and Programming Languages (bachelor level - first year (in English));
        - Databases (master level - second year);
        - Big Data in Cyber-Fizice Systems (master level - first year (in English));
    - Supervision of students in preparing bachelor's theses and dissertations.
- Research

TECHNICAL UNIVERSITY OF CLUJ-NAPOCA – CLUJ-NAPOCA, ROMANIA
Business or Sector Education | **Department** Department of Automation

LECTURER – 01/02/2016 – 01/03/2025

- Teaching
    - Courses, laboratories and projects:
        - Computer Programming and Programming Languages (bachelor level - first year (in English));
        - Databases (master level - second year);
        - Big Data in Cyber-Fizice Systems (master level - first year (in English));
    - Laboratories and projects:
        - Industrial Informatics (bachelor level - third year (in English));
    - Supervision of students in preparing bachelor's theses and dissertations.
- Research

TECHNICAL UNIVERSITY OF CLUJ-NAPOCA – CLUJ-NAPOCA, ROMANIA
Business or Sector Education | **Department** Department of Automation

TEACHING ASSISTANT – 01/10/2011 – 01/02/2016

- Teaching
    - Laboratories and/or projects:
        - Computer Basics (bachelor level - first year (in Romanian and English));
        - Industrial Informatics (bachelor level - third year (in English));
        - Advanced Programming (master level - second year);
        - Advanced Programming Techniques (master level - first year);
    - Supervision of students in preparing bachelor's theses and dissertations.
- Research

IPA SA CIFATT CLUJ – CLUJ-NAPOCA, ROMANIA
Business or Sector Professional, scientific and technical activities

SCIENTIFIC RESEARCHER – 01/09/2004 – 01/10/2011

- Research, development, and innovation activities in the field of ICT

SC SOFTWAREITC – CLUJ-NAPOCA, ROMANIA
Business or Sector Professional, scientific and technical activities

PROGRAMMER – 01/09/2003 – 10/06/2004

- Software development

EDUCATION AND TRAINING

01/05/2014 – 07/10/2015 Cluj-Napoca, Romania
POSTDOCTORAL PROGRAM Technical University of Cluj-Napoca, Department of Automation

Level in EQF EQF level 8 | **Thesis** Modeling and evaluation of dependability in cyber-physical systems

15/02/2012 – 15/05/2012 Torino, Italy
RESEARCH INTERNSHIP Politecnico di Torino, Department of Control and Computer engineering (DAUIN)

Level in EQF EQF level 8 | **Thesis** Design of a solution for ensuring the dependability of cyber-physical systems

01/10/2010 – 30/09/2013 Cluj-Napoca, Romania
PHD IN SYSTEMS ENGINEERING Technical University of Cluj-Napoca, Department of Automation

Level in EQF EQF level 8 | **Thesis** Cyber-physical systems with dependability features

01/10/1998 – 31/07/2003 Cluj-Napoca, Romania
COMPUTER ENGINEER Technical University of Cluj-Napoca, Department of Computer Science

Computer Programming, Programming Techniques, Operating Systems, Databases, Software Engineering, Artificial Intelligence

Level in EQF EQF level 7

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	B1	B1	A2	A2	A2

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

PROFESSIONAL SKILLS GAINED THROUGH WORK EXPERIENCE

Details

- Development of cyber-physical systems and IoT solutions;
- Development of dependability models and techniques for cyber-physical systems;
- Development of wireless sensors with energy harvesting/storage capabilities;
- Application of Big Data techniques in cyber-physical systems;
- Design and implementation of databases (SQL, NoSQL, NewSQL) and formal ontologies;
- Development of SCADA (Supervisory Control and Data Acquisition) systems;
- Implementation of information systems using multi-agent techniques and intelligent agents;
- Preparation of reporting documentation for national and international research, development, and innovation projects, as well as for institutional projects.

DIGITAL SKILLS

Details

- Programming languages: C, LabWindows CVI, C#, Java, Python, SQL, OWL;
- Software design and development environments: Visual Studio, Visual Studio Code, Microsoft SQL Server, Oracle, MongoDB, Apache Spark, Apache Hadoop, Android Studio, Jade, INGENIAS, Protégé.

ORGANIZATIONAL/MANAGERIAL SKILLS

Details

- Secretary of the master's admission committee in Systems Engineering within the Department of Automation, Technical University of Cluj-Napoca, since 2012;
- Director of a national research grant: FoodNose (2024–2025) – Intelligent System for Detecting the Degree of Food Freshness/Alteration based on an Electronic Nose Device (GNaC ARUT 2023 – contract no. 4/2024).;
- Executive Director in the DECIDE project (2023–2026) – AI design of decentralized coopetitive control over networks (PNRR-III-C9-2022 – I8 – contract no. 760069/23.05.2023);
- Trainer Diploma (COR code 241205), Ministry of Labor accreditation, 2011;
- Certified in Communication Skills, Ministry of Labor accreditation, 2011;
- Certified in Management Skills, Ministry of Labor accreditation, 2011;
- Certified Project Manager (COR code 241919), Ministry of Labor accreditation, 2008.

PUBLICATIONS

Details

- Author and co-author of 54 scientific papers published and/or presented in journals as well as at international and national conferences, of which:
    - 14 ISI papers (of which 4 in Q1 journals and 3 in Q2 journals);
    - 18 ISI Proceedings papers;
    - 6 IDB (IEEE, SCOPUS) papers;
    - 6 (EBSCO, Mathematical Reviews, Google Scholar) papers;
    - 10 papers.
- Co-author of a book chapter in a specialized volume published by an international publisher (IET).
- Co-author of a professional book.
- Author of a laboratory handbook.

Full list of publications available at: http://users.utcluj.ro/~tsanislav/publications.html.

CITATIONS

Details

- Citations in ISI journals, books, and international databases:
    - 1649 Google Academic (H-Index 15) (https://scholar.google.ro/citations?user=4TvN834AAAAJ);
    - 960 Scopus (H-Index 12) (https://www.scopus.com/authid/detail.uri?authorId=24377163300);
    - 690 WoS (H-Index 9) (https://www.webofscience.com/wos/author/record/G-3830-2016).

PROJECTS

Details

- Project Director of a national research grant (FoodNose - GNaC ARUT 2023 - contract no. 4/2024, contract value: 50,000 RON);
- Member (researcher) in the teams of 15 international and national research and development projects (FP7 – TETRACOM, CyCloSe – RO-IT bilateral project, uSD–BLE EDL – PNIII, etc.);
- Member (researcher) in a research project with a direct beneficiary (Power Harvesting Ambient Beacon for the IoT – Accenture Industrial Software Solutions S.A., contract no. 900/2016);
- Executive Director in a PNRR research project (DECIDE – PNRR-III-C9-2022 – I8, contract no. 760069/23.05.2023);
- Member (ICT expert) in the implementation team of an institutional project on the digitalization of the Technical University of Cluj-Napoca (eUT4ALL – e-PNRR, contract no. 14076/16.09.2022);

- Member (education expert) in the implementation teams of 9 institutional projects focused on student career development counseling (Co-EDU-PRO – CNFIS-FDI-2025-F-0406, FOCUS Student – CNFIS-FDI-2024-F-0347, TutoR-UTCN – CNFIS-FDI-2023-F-0322, MenToR – CNFIS-FDI-2022-0354, The Open University – CNFIS-FDI-2021-0270, Acces-UNIV – CNFIS-FDI-2020-0568, ESCOUNIV – CNFIS-FDI-2017-0122), and in projects aimed at developing entrepreneurial and research skills among students (ANTREDOC POCU/380/6/13/123927, Învață Automatica – POSDRU), managed by the Career Counseling and Guidance Center of the Technical University of Cluj-Napoca, the Doctoral School, and the Department of Automation of the same university;
- Programmer in two contract-based projects with direct beneficiaries: SC Hidroelectrica SA, Cluj Hydropower Branch (2004–2006), and the Agro-Industrial School Group Tamási Áron, Borș (2009).

Full list of projects available at: http://users.utcluj.ro/~tsanislav/projects.html.

REVIEWER

Details

- Member of the program committee:
    - International Conference on Internet of Things, Big Data and Security (IoTBDS) in 2025, 2026;
    - International Conference on Applied Data Science and Intelligence (ADSI) in 2021, 2025;
    - International Symposium on Tools and Methods of Competitive Engineering (TMCE) in 2020;
    - International Conference on Computer Networks Applications (ICCNA) in 2018;
    - IEEE International Conference on Automation Quality and Testing Robotics (AQTR) in 2012, 2014, 2016, 2018;
    - Annual IEEE Consumer Communications & Networking Conference (CCNC) in 2017;
    - International Conference on Ambient Systems, Networks and Technologies (ANT) in 2017.
- Co-editor of a Special Issue – "Intelligent Control and Testing Systems and Applications" in Sensors, 2022.
- Peer reviewer for ISI and IDB-indexed journals:: Journal of Network and Computer Applications - JNCA (ISI), IEEE Transactions on Instrumentation and Measurement (ISI), Sensors (ISI), Applied Sciences (ISI), IEEE Transactions on Industrial Informatics (ISI), IEEE Access (ISI), Entropy (ISI), IEEE Transactions on Emerging Topics in Computational Intelligence – TETCI, International Journal of Computer Systems Science and Engineering – CSSE, Journal of Industrial Information Integration – JII, Systems, Computers.

http://users.utcluj.ro/~tsanislav/professional.html

OTHER INFORMATION

Details

- Finance chair of IEEE International Conference on Automation, Quality and Testing, Robotics, AQTR, Cluj-Napoca, Romania in 2010, 2012, 2014, 2016, 2018, 2020, 2022, 2024, 2026;
- Member of the Organizing Committee for 29th IEEE International Conference on System Theory, Control and Computing, ICSTCC 2025, Cluj-Napoca, Romania;
- Member of the Organizing Committee for 20th IEEE European Test Symposium, ETS 2015, Cluj-Napoca, Romania;
- Member of the Topical Advisory Panel of Journal of Sensor and Actuator Networks;
- Member of IEEE (since 2012) and IEEE Computer Society (since 2014).

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