

PERSONAL INFORMATION

ȘTEȚ Denisa Liliana



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 <https://users.utcluj.ro/~denisad/>  
 Sex female | Date of birth 06/02/1978 | Naționaliity Romanian

CURRENT JOB APPLIED

PROFESSOR, Department of Electrical Engineering and Measurements, Faculty of Electrical Engineering, Technical University of Cluj-Napoca

PROFESSIONAL EXPERIENCE

2002-2006, 2006-2011, 2011-2016, 2016 - present

PhD Student, Assistant Professor, Lecturer, Associate Professor

Department of Electrical Engineering and Measurements, Faculty of Electrical Engineering, Technical University of Cluj-Napoca, 15 C. Daicovicu Street. Cluj-Napoca, Romania, [www.utcluj.ro](http://www.utcluj.ro)

• **Teaching activity:**

- Courses: Electromagnetic Compatibility (year IV, Faculty of Electrical Engineering), Bases of Electrotechnics I and II (year I and II, English section, Faculty of Electronics, Telecommunications and Information Technology), Theory of electric circuits (year 1, Faculty of Electrical Engineering)
- Seminars in the disciplines: Bases of Electrotechnics I and II (in English), Theory of Electrical Circuits, Theory of the Electromagnetic Field
- Laboratories in the disciplines: Electromagnetic Compatibility, Theory of Electrical Circuits, Theory of the Electromagnetic Field, Numerical Methods

• **Research activity** as a member of Energy Transition Research Center (<https://entrec.utcluj.ro>)

- Representative of the Faculty of Electrical Engineering within the Office of Career Counselling and Guidance of UTCN (2016-2023)
- Member of the Faculty of Electrical Engineering Council (since 2016)
- Member of the ETHM Department Council, Technical University of Cluj-Napoca (since 2024)
- Member of the Admission Committee of the Faculty of Electrical Engineering (until 2019)
- Member of the "Women in Tech" group of UTCN (since 2022)

2001-2002

Professor

Technical College of Transport 'Transilvania' Cluj-Napoca, Str. Bistriței, nr. 21, Cluj-Napoca, RO 400430, <http://www.colegiuldetransporturi-cluj.ro/>

Teaching courses/applications in the disciplines: Electrical Engineering, Technical Requests and Measurements, Electric Machines, Computer Science)  
 Responsible for the Computer Science Laboratory, Head of the Computer Science Club (coordinator of extracurricular activities in the computer science discipline)

2002

Technical - Commercial Engineer

Energobit SA, Parcul Industrial Tetarom I, Cluj-Napoca, RO 400221, <http://www.energobit.com>

Responsible for preparing models and design specifications for electrical equipment and installations and applying appropriate engineering principles and practices to provide optimal technological solutions

EDUCATION AND TRAINING

**2025 Certificate of habilitation in the field of electrical engineering**

IOSUD Technical University of Cluj-Napoca

**2011 PhD in Electrical Engineering**

Technical University of Cluj-Napoca, Str. C. Daicoviciu nr. 15, Cluj-Napoca, Romania

 ▪ Ph.D. thesis title: *Contributions to methods of modeling and prediction of electromagnetic interferences in alternating current*, Scientific supervisor Prof. dr. ing. Emil Simion, 2010

**2001-2002 Advanced Studies Diploma - Electrical Engineering** (Dissertation exam grade:10)

Technical University of Cluj-Napoca, Str. C. Daicoviciu nr. 15, Cluj-Napoca, Romania

**1996-2001 Bachelor's degree - Electrical Engineering** ((Dissertation exam grade:10))

Technical University of Cluj-Napoca, Str. C. Daicoviciu nr. 15, Cluj-Napoca, Romania

**OTHER STUDIES AND TRAINEESHIPS**


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**March - May 2001 ERASMUS research mobility**

TELICE, University - Science and Technology Lille, Franța

**August 2022, December 2023 Teaching/research mobility**

Østfold University College, Norvegia - Department of Engineering

**Specializations and qualifications**

**2018** Institutionalization of the European Energy Award in Romania, Consultants' Training Session organized within the Swiss-Romanian Cooperation Programme

**2017** Analysis techniques and practices for the implementation of buildings with almost zero energy consumption (nZEB), postgraduate training and professional development program organized by the Technical University of Cluj-Napoca, 10 ECTS, Certificate of attestation of professional competences issued by the Ministry of National Education and Scientific Research

**2017** NZEB basics training of trainers, Training course organized by URBAN INCD INCERC

**2007** ANSYS Course – Certificate of Attendance, issued by the Technical University of Cluj Napoca, University of Sheffield UK and ANSYS, Inc. Romanian Channel Partner INAS S.A. Craiova

**2016** Career Counselor Course, organized by UTCN through CCOC and Avangarde Business Academy

**2016** Curs EMTP-RV - Certificate of Attendance eliberat de POWERSYS Inc. Franta

**2016** Diploma of Risk Assessor for Occupational Safety and Health (postgraduate course), University of Petroșani, Faculty of Mines

**PERSONAL COMPETENCE**


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Known foreign languages English, French

- Communication skills**
  - Strong communication skills developed through university teaching, with the ability to adapt content and delivery to students' levels and learning needs. Experienced in interdisciplinary collaboration within national and international projects, working effectively with diverse teams and producing scientific and technical materials in multicultural environments.
- Organizational/managerial skills**
  - Demonstrated strong organizational and coordination abilities through active involvement in the management of national and international projects and the organization of hands-on student activities, including the Robotelier student club. Served as a member of faculty and department councils, as well as strategic committees (e.g., admissions and career guidance), strengthening planning, coordination, and decision-making skills within academic environments.
- Skills acquired in the workplace**
  - Developed strong competencies in university teaching, team coordination, and management of educational and research projects. Demonstrated ability in effective student communication, interdisciplinary collaboration, and scientific writing, alongside integrating modern technologies into teaching and learning activities. Experience in academic administration and governance has further strengthened decision-making, strategic planning, and teamwork skills.
- Computer skills**
  - Proficient in Microsoft Office applications for teaching, research, and academic administration. Experienced in engineering software and numerical modelling tools, including Mathcad, OrCAD, MATLAB/Simulink, and EMTP-RV, for simulation and analysis of electrical circuits. Skilled in using online educational platforms (Microsoft Teams, Moodle, Zoom) and digital tools for assessment, collaboration, and remote teaching.
- Other competences**
  - Extensive experience in preparing technical reports and supporting documentation for national and international research projects, including collaborations with industry partners. Proven ability to develop technical documentation, feasibility studies, impact assessments, and progress reports in line with funder requirements and relevant academic and professional standards, supporting effective project implementation and successful completion.

**ADDITIONAL INFORMATION**

- Publications**
  - 6 published books, over 100 scientific articles defended/published at conferences and/or specialized journals (*according to the List of attached papers*)
  - Reviewer at international journals and conferences: Geosciences, Processes, EAEEIE2025, EHP2025, Applied Science, Energies, Electronics, Elsevier, IEEE\_Educational2020, REVUE ROUMAINE DES SCIENCES TECHNIQUES2019, ATEE2017, ATEE2019, EEEIC2020, EHB2021, EMES2017, ICEMES2019, IET2016, IET2017, ISFEE2016, JMS2018, MPS2019, MPS2020, UPEC2014, UPEC2019, UPEC2021
- Coordinates of postgraduate programs**

(since 2023) Coordinator of postgraduate programs carried out through DECIDFR-UTCN:

  1. Solutions and actions for the decarbonization of companies (accredited with 5 ECTS)
  2. Energy transition audits (accredited with 2 ECTS)
- Coordination of extracurricular activities**

(2017 – present) Co-founder and [ROBOTELIER student club coordinator](#) of FIE-UTCN
- Projects**

Participation in over 20 national and international projects as a director/ member of the implementation team

**PROJECTS FINANCED FROM INTERNATIONAL SOURCES (SELECTION)**

	<b>PROJECT TITLE</b>	<b>Role in the project</b>
1	Energy Transition Audits towards Decarbonization, Project 101076424 — LIFE21-CET-AUDITS-EnTRAINER, December 2022 – November 2025 (36 months), UTCN Partner Manager Denisa Stet, Project Coordinator: Aristotle University Thessaloniki, Greece (relevant results: 2 scientific articles, digital tools for monitoring energy consumption, 2 ECTS accredited postgraduate programmes)	Director – UTCN Partner
2	Empowering Energy Efficiency Awareness through a Holistic Educational Approach / Grant agreement nr. 2022/346660 / INNOVATION NORWAY, 2022-2023. (relevant results: 1 scientific article, 1 book)	Director – UTCN coordinator
3	SunHorizon – „Sun coupled innovative Heat pumps”, H2020-LC-SC3-2018-RES, Grant No. 818329, implementation period: 01.10.2018 – 30.09.2023,	Member of the implementation team

4	Design and development of an Energy Efficiency Management and Control System with cost-effective solutions for residential and educational buildings – DOITSMARTER, Norway grants 2021/332783, 2022-2024	Member of the implementation team
5	Generate energy efficient acting and Results at small & medium enterprises, 894356–GEAR@SME –H2020-LC-SC3-2018-2019-2020 / H2020-LC-SC3-EE-2019, 2020-2022, <a href="http://www.gearatsme.eu">www.gearatsme.eu</a>	Member of the implementation team
6	A holistic framework for Empowering SME's capacity to increase their energy efficiency, 847132-SMEmPower Efficiency-H2020-LC-SC3-2018-2019-2020/H2020-LC-SC3-EE-2018, 2019-2022, <a href="http://www.smempower.com">www.smempower.com</a>	Member of the implementation team, Work Package Coordinator
7	Renewable Cogeneration and Storage Technologies Integration for energy Autonomous Buildings, 815301-RE-COGNITION-H2020-LC-SC3-2018-2019-2020/H2020-LC-SC3-2018-RESTwoStages, 2019-2022, <a href="http://www.re-cognition-project.eu">www.re-cognition-project.eu</a>	Member of the implementation team
8	Enhancing the Transfer of Research and Development Methods in Energy-related Clusters from Norway to Romania- EmPower Efficiency” Contract number Nr. 28.407/26.05.201	Member of the implementation team
9	Demand Response in Blocks of Buildings, 696114 - DR-BOB - H2020-EE-2014-2015/H2020-EE-2015-2-RIA, 2016-2019 <a href="http://www.dr-bob.eu">www.dr-bob.eu</a>	Member of the implementation team
10	Meeting the Energy Professionals Skills, 649773 — MEnS — H2020-EE-2014-2015/H2020-EE-2014-3-MarketUptake, 2015-2018, <a href="http://www.mens-nzeb.eu">www.mens-nzeb.eu</a>	Member of the implementation team

**PROJECTS FINANCED FROM NATIONAL SOURCES (SELECTION)**

<i>PROJECT TITLE</i>		<i>Role in the project</i>
1	CNCSIS type Bd, Contributions to the numerical modeling of electromagnetic interference in EMC test equipment, CNCSIS Code 239/2003, 2003-2005	Director
2	CNCSIS type Td, Development of a software package for modeling and numerical simulation of electromagnetic interferences in reverberant chambers with shape brazing, CNCSIS Code 218/2004, 2004-2006	Director
3	SGNU ROSE, Education and career counseling for decreasing the dropout rate at the Faculty of Electrical Engineering in Cluj-Napoca EDCONS_FIE, AG 39/SGU/NC/II/23.11.2017	Director
4	Grant POSDRU/159/1.5/S/137516 Modeling and prediction solutions for increasing the operational safety of electrical distribution networks, by preventing the degradation of power cables, 2014-2015	Director
5	CNFIS-FDI, Counseling and support for access to university studies, reduction of dropout and insertion on the labor market, CNFIS-FDI-2018-0383	Member of the implementation team (career guidance counsellor)
6	CNFIS-FDI, Social Equity and Counseling for Access to University Studies and Career Development, CNFIS-FDI-2017-0122	Member of the implementation team (career guidance counsellor)
7	Summer school to increase access to tertiary education in the electrical field by motivating high school students at risk – ELECTROSUMMER, Project code I/PV/07, 2017	Member of the implementation team
8	CEEX, no. 6856/2006: Theoretical and experimental research on the behavior of insulating materials for the purpose of substantiating intelligent diagnostic and prediction studies – MATELIZ, 2006-2008	Member of the implementation team
9	CEEX, no. 136/2006: Intelligent and active diagnosis and prediction of buildings with resistance structure in complex polluted environment – DIRECTOR, 2006-2008	Member of the implementation team
10	CNCSIS no. 1279/2006: Influence of electromagnetic fields on the operational stability and performance of combustion plants, 2006-2007	Member of the implementation team
11	PN-II-ID-PCE-2007-1, no. ID_1024: Mathematical model for the study of the influence of electromagnetic pollution in AC of underground metallic gas pipes, with and without cathodic protection, located in the vicinity of a transformer station, 2007-2009	Member of the implementation team
12	PN-II-No. 22122/2008: Intelligent prediction and diagnosis system for increasing the operational safety of electrical distribution networks, by preventing damage to power cables – CABDIAG, 2008-2010	Member of the implementation team
13	CNCSIS TE 34/09.08.2010: Modelling, prediction and design solutions, with maximum performance, for reducing the impact of dispersion currents on underground metal gas transmission pipelines, 2010-2013	Member of the implementation team

- 14 CEEEX, no. X2C37/2006: The impact of anthropogenic electromagnetic fields on ecosystems – ICEMECOS, Project director: prof.dr.ing. Claudia Popescu (Polytechnic University of Bucharest); 2006-2008
- Member of the implementation team

**Research/consultancy contracts (concluded with the economic environment) (SELECTION)**

	<i>PROJECT TITLE</i>	<i>Role in the project</i>
1	TRANGAZ I. Study of corrosion of natural gas transmission pipelines, under the influence of overhead power lines with voltages higher than 100kV and methods of reducing it. Case study, Contract No. 27/ 26.01.2010	Member of the implementation team
2	TRANSGAZ II_04/2011-SNTGN-Trangaz S.A. Mediaș, Intensive Measurements and Software Validation	Member of the implementation team
3	ENERGOBIT_43/2012, Interferențe electromagnetice induse în ecranele unor linii electrice în cablu	Member of the implementation team
4	ROMATSA_3423/2013, Protection of equipment from DSNA Cluj and DR Bucharest objectives PNA/CNS Cluj Section to Surges and Electromagnetic Pulses caused by lightning in power supply lines and in voice and data circuits	Member of the implementation team
5	UTI_C01AP1/14014610C/S of 07.10.2015, Energy Audit Report - Energy Efficiency Assessment	Member of the implementation team
6	Cluj-Napoca Municipality/ 99457/09.03.2016, Energy Management Service for Cluj-Napoca	Member of the implementation team
7	Cluj-Napoca Municipality / 258420/31.05.2017, Energy Management Service for Cluj-Napoca	Member of the implementation team
8	SC Servelect SRL, 54/31.10.2018 (AA 1/2018) Studies on CPT forecast in energy distribution networks for 2018	Member of the implementation team
9	SDEETN SA, 4740/01.03.2018, Services for determining CPT according to the requirements of NTE013/16	Member of the implementation team
10	ALEA-Alba Local Energy Agency Association, 60/12.11.2018, External expertise services necessary for the elaboration of the action plan of the SUPPORT project "Support Local Governments in Low Carbon Strategies	Member of the implementation team

Date: 15.01.2026

Assoc. Prof. PhD Eng. Denisa ȘTEȚ