

PERSONAL INFORMATION

Simona VLAD

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✉ Simona.Vlad@ethm.utcluj.ro

Date of birth 17/10/1966 | Nationality Romanian

PROFESSIONAL EXPERIENCE

2007 – prezent**Associate Professor**

Technical University of Cluj-Napoca, Memorandumului street, no. 28, Cluj-Napoca, Romania

- Teaching activity – teaching courses/laboratories/projects: Computer Programming and Programming Languages I, Medical Images Analysis and Processing, Medical Imaging, Applications of Artificial Intelligence in Medical Engineering, Biomedical Instrumentation
- Research activity – use of artificial intelligence in diagnosis, use of computer-aided design in the medical field, analysis of algorithms and their complexity, modeling and simulation of medical systems, modeling and simulation of complex concurrent systems

1996 – 2007**Lecturer**

Technical University of Cluj-Napoca, Memorandumului street, no. 28,, Cluj-Napoca, Romania

- Teaching activity – teaching courses/laboratories/projects: Computer Programming and Programming Languages I, Medical Images Analysis and Processing, Medical Imaging, Computer Architectures and Operating Systems, Basics of electrotechnics
- Research activity – analysis of algorithms and their complexity, modeling and simulation of complex concurrent systems, electrostatic separation of non-metallic powders.

2001 – 2005**Researchers**

Technical University of Eindhoven, Eindhoven, Netherlands

- Research activity – modeling and analysis of the performance of telecommunications systems.

1991 – 1996**Assistent professor**

Technical University of Cluj-Napoca, Memorandumului street, no. 28, Cluj-Napoca, Romania

- Teaching activity – teaching seminars/laboratories: Computer programming, Basics of electrotechnics
- Research activity – electrostatic separation of non-metallic powders, numerical modeling of electromagnetic fields, modeling and simulation of complex concurrent systems.

1990 – 1991**Computer engineer**

Institute of Isotopic and Molecular Technology,, Cluj-Napoca, Romania,

- Research activity – design and practical realization of a laboratory spectrometer.

EDUCATION AND TRAINING

1992-1999

Ph.D. Diploma - *Electrotechnologies*

Technical University of Cluj-Napoca , Romania

T Ph.D. thesis: *Theoretical and experimental modeling of processes in electrostatic plate separator*

1985-1990

Engineering Diploma – *Computers, Software Specialization*

Polytechnic Institute of Cluj-Napoca, Faculty of Electrical Engineering, Automation and Computers specialization, Cluj-Napoca, Romania

PERSONAL SKILLS AND COMPETENCES

Mother tongue Romanian

Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	B2	C1
Franch	B2	C1	B2	B1	B1
Dutch	C1	C1	B1	B1	B1

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

Communication skills

Communicative, open, empathetic, with teamwork skills, skills obtained in the 30 years of teaching experience and research work in various teams, as a contract director and as a member, as a tutor for the first year students of Electrical Engineering over many years, and for the first and second year students of Medical Engineering, in preparing students for the bachelor and dissertation exams and for the Student Scientific Sessions

Organizational/managerial skills

Very good experience of project management and working group, ability to analyze and synthesize:

- 2020 – present – Secretary General of the National Society of Medical Engineering and Biological Technology (SNIMTB)
- 2016 – 2020 – Treasurer of the National Society of Medical Engineering and Biological Technology
- Organizer of the MediTech conference – 2009, 2011, 2014, 2016, 2018, 2020, 2022, 2024 editions
- Editor of the proceedings of the MediTech conference – 2009, 2011, 2014, 2016, 2018, 2020, 2022 editions – published in IFMBE Proceedings, Springer Publishing House
- Project Director - Theoretical and Experimental Research on Particle Behavior in Electrostatic Plate Separator - 2000-2001, ANSTI Contract, no. 6113/2000
- Participation as a member in national and international research contracts

Skills acquired in the workplace

- teaching skills, by involvement in the teaching process for over 30 years;
- research skills through participation in research projects .

Computer skills

- C/C++ language
- Matlab,
- 3D Slicer, VMTK

Driving licence

category B

ADDITIONAL INFORMATION

Publications

- 7 books and chapters in national and international books
- 6 articles In ISI indexed journals
- 46 articles indexed in ISI Proceedings, CNCSIS recognized journals and international databases

Projects

13 research contracts, one of which is a contract director
3 institutional contracts

Awards

- **2004 - IEEE James Melcher paper award 2004** – for the paper: “Numerical computation of conducting particle trajectories in plate-type electrostatic separators”, **Vlad, Simona**, Iuga, A., Dăscălescu, L., IEEE Transactions on Industry applications, vol. 39, issue: 1 (2003), pp.66-71

Cluj-Napoca, 30 October 2024

Assoc. Prof. Eng. Simona Vlad