

PERSONAL INFORMATION

Adrian DĂNILĂ



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POSITION

Lecturer Engineer PhD

WORK EXPERIENCE

From 2005 – present

Lecturer Engineer PhD

Transylvania University of Braşov, <https://unitbv.ro>

- Lecturer

Business or sector Electrical Engineering and Computer Science. Department of Automation and Information Technology

From 1988 – to 2005

Scientific Researcher

Automotive National Institute of Brasov, Brasov, 5, Poienelor street, Romania.

- Test bends designer

- Coordinator of the test bends design and production SP304/SI344.

Business or sector Automotive Industry

From 1987 – to 1988

Design Engineer

National Research and Development Institute for Electrotechnics, ICDT – ICPE Bucharest

- Electrical engineering designer

Business or sector Electrotechnics

From 1985 – to 1987

Engineer

Codlea Mechanical Enterprise

- Engineer

Business or sector Agricultural machinery and equipment

EDUCATION AND TRAINING

From 1997 – to 2006

PhD engineer / Electrical engineering

Transylvania University of Brasov, Romania

- Electrical drives and systems control

PERSONAL SKILLS

Mother tongue(s)

Romanian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C2	C2	C1	C1
Cambridge Certificate FCE					
French	C2	C2	C2	C2	C2

Russian

A2

A2

A2

A2

A2

Communication skills

- Very good communication skills acquired through personal experience as a teacher and scientific researcher, as well as through participation in advanced training courses in the teaching field.

Organisational / managerial skills

- Leadership: from 1997 to 2005, coordinator of a research/design/execution team consisting of over 30 employees.

Job-related skills

- Very good knowledge of command, control and monitoring systems in the field of electric drive equipment, acquired in the research/design/execution of test stands for road vehicle components; (acquired during the period 1988-2006 through the activity of scientific researcher in the field of test stands for road vehicle components).
- A very good knowledge of the fields of Systems Theory, Systems Identification, Electrical Drives and Dynamic Systems with Distributed Parameters; (acquired from 2006 to present as a university lecturer).

Digital competence

SELF-ASSESSMENT

Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Independent user	Proficient user	Independent user	Proficient

Levels: Basic user - Independent user - Proficient user

Digital competences - Self-assessment grid

- Very good knowledge of the development environments C++, C#, VisualBasic, LabWindowsCVI, of the graphic editing environments AutoCAD, OrCAD, SolidWorks, of the programming environments dedicated to scientific calculations: Python/Numpy, SCIPy, Matlab/Scilab, QuickField, ANSYS, Mathematica, Maple, Python SymPy.
- Very good knowledge of Microsoft Office™ tools. The mentioned skills were acquired in the context of teaching and scientific research activities.

Driving licence

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ADDITIONAL INFORMATION

Publications

- 4 monographs in the fields of Dynamic Systems Identification and Electric Drives;
- 12 articles published in specialized journals indexed by Web of Science and BDI;
- 18 articles published in specialized conference volumes indexed by Web of Science

Projects

- Director / project manager of research and development in 9 projects.
- Member of the development team in 18 research and development projects.

Memberships

- IEEE Member, Control Systems Society since 2006.

ANNEXES

Monographs

- A. Dănilă, Modelarea și identificarea sistemelor dinamice., Culegere de probleme rezolvate în mediul software Python Sympy, Brașov, Editura Universității Transilvania din Brașov, 2022, 161 pag. ISBN 978-606-19-1522-4.

- A. Dănilă, Modelarea și identificarea sistemelor dinamice, Brașov, Editura Universității Transilvania din Brașov, 2013, 234 pag. ISBN: 978-606-19-0271-2.

- I. Țopa, A. Dănilă, L. Diaconu, Acționări electrice reglabile cu mașini asincrone, București: MATRIX Rom, 2007, 158 pag. ISBN: 978-973-755-217-4.

- I. Țopa, A. Dănilă, L. Diaconu, Elemente de execuție electrice, București: MATRIX Rom, 2005, 157 pag, ISBN 973-685-887-1.

- Dănilă, A., Aciu, L. E., The Implementation of Artificial Intelligence for Real-Time Estimation of an Induction Machine's Flux Model Parameters from Acquired Data, 2023 17th International Conference on Engineering of Modern Electric Systems (EMES), 09-10 June 2023, Oradea, Romania, Year: 2023, DOI: 10.1109/EMES58375.2023.10171757, ISBN:979-8-3503-1063-4.

- Aciu L. E., Dănilă A., An Analysis of the Power Factor Compensation Within the Power Grid of an Industrial Plant by Means of Supervised Learning Methods, 2023 International Conference on Electromechanical and Energy Systems (SIELMEN), 11-13 October 2023, Craiova, Romania, Year: 2023, DOI: 10.1109/SIELMEN59038.2023.10290754, ISBN:979-8-3503-1524-0.

- Dănilă, A. PCA-Based Analysis of Thermographic Data For the Estimation of the Parameters of the Electrical Motors Thermal Models, In: 11th International Conference And Exposition On Electrical And Power Engineering, October 22-23, Iasi, Romania, Year: 2020, www.epe.tuiasi.ro/2020.

- The thermal field analysis of the rotary kiln for the cement plants by means of the image processing techniques, In: International Scientific Conference ClBv, Brasov-Romania, 1st and 2nd November, Year, 2019. link: <https://www.unitbv.ro>

- Danila, A. Accurate Estimation of the Induced Currents Within the Squirrel-Cage Induction Machine with Thermovision Analysis, In: 2018 International Conference and Exposition on Electrical and Power Engineering (EPE) October 18-19, Iași Romania, Year: 2018, DOI: 10.1109/ICEPE.2018.8559824.

- Danila, A. Consolidated metering on the client side for industrial and home utilities, In: 2017 International Conference on Electromechanical and Power Systems (SIELMEN) October 11-13, Iasi, Romania, Chisinau, Rep. Moldova, Year: 2017, Pages: 391 – 396, Electronic ISBN: 978-1-5386-1846-2 USB ISBN: 978-1-5386-1845-5 Print on Demand(PoD) ISBN: 978-1-5386-1847-9.

- Danila A., Ungureanu D. E., Moraru S. A.; Voicescu N. An implementation of the variance analysis (ANOVA) for the power factor optimization at distribution level in smart grid In: The 2017 International Conference on Optimization of Electrical and Electronic Equipment (OPTIM) & 2017 Intl Aegean Conference on Electrical Machines and Power Electronics (ACEMP) Cheile Gradistei Fundata Complex Brasov, Romania 25 - 27 May, 2017, Year: 2017 Pages: 48 – 53, IEEE Catalog Number: CFP1722D-ART ISBN: 978-1-5090-4489-4.

Research/development projects (excerpt)

- SC INAR SA Brașov, Stand for determining the dynamic characteristics of telescopic shock absorbers – Project Director.

- SC INAR SA Brașov, Control system for 100 and 300 kW eddy current dynamometric brakes – Project Director.

- SC INAR SA Brașov, stand for measuring the friction coefficient for brake pads – Project Director.

- CALIST National Research/Development Program, beneficiary SC Hidrojet Breaza, Stand for testing injection pump sprayers - Project Director.