

PERSONAL INFORMATION

	Dan Doru MICU
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WORK EXPERIENCE

2015-pres.	Professor - Technical University of Cluj-Napoca, Faculty of Electrical Engineering, Cluj-Napoca, Romania Courses: Numerical Methods; Complements of Mathematics; Electromagnetics; Green Buildings
Sept.2017-Feb.2018	Fulbright Senior – Professor – University of Florida, Electrical and Computer Engineering, Gainesville, USA Courses: Electromagnetic Fields and Applications; Lightning fundamentals; Applied Numerical Methods
Feb. 2019–June 2019	Part-time Professor – Beijing Jiatong University, School of Electrical Engineering, Beijing, China Courses: Electromagnetics; Photovoltaic Technologies
Feb. 2020–June 2020	Part-time Professor – Beijing Jiatong University, School of Electrical Engineering, Beijing, China Courses: Electromagnetics; Photovoltaic Technologies (online-teaching)
2007-2015	Associate Professor - Technical University of Cluj-Napoca, Faculty of Electrical Engineering Courses: Numerical Methods; Complements of Mathematics; Fundamentals of Electrotechnics
2006-2010 (part time)	Scientific Expert – Managerial Agency of Scientific Research, Innovation and Technological Transfer, Bucharest-Ministry of Education and Research
2004-2007	Lecturer - Technical University of Cluj-Napoca, Faculty of Electrical Engineering Course/Laboratory: Numerical Methods; Seminar: Energy Management; Electromagnetic Compatibility
1999-2004	Assistant Professor - Technical University of Cluj-Napoca, Faculty of Electrical Engineering Laboratory: Energy Management; Power Systems Symulation and Analysis; Power Quality
Jan-Jun 2000	PhD Researcher - Vrije Universiteit Brussels, Belgium
Feb–Jun 2001	Research topic: Modelling of couplings between high voltage power lines and metallic pipelines

EDUCATION

2014	Habilitation – PhD Advisor in Electrical Engineering - Technical University of Cluj-Napoca Habilitation Thesis: <i>Development of advanced analysis methods and numerical modeling dedicated tools applied in electrical engineering</i>
	PhD in Electrical Engineering - Technical University of Cluj-Napoca PhD Thesis: <i>Remarks upon the influence on high voltage lines on burried metallic pipelines</i>
1998 - 2004	PhD in Electrical Engineering - Technical University of Cluj-Napoca PhD Thesis: <i>Remarks upon the influence on high voltage lines on burried metallic pipelines</i>
	Bachelor in Mathematics - (average 9.52) Babes-Bolyai University, Cluj-Napoca Competences: Numerical Analysis; Complex Analysis; Multiobjective optimisation
1998-1999	Master in Electrical Engineering - (average 10) Technical University of Cluj-Napoca Competences: Power systems simulation and analysis, Energy Efficiency, Renewable Energy Systems
	Bachelor in Power Systems - (average 9,92) Technical University of Cluj-Napoca Competences: Power Systems Operations, Power Quality, Electromagnetics and Electrostatics, High Voltage

RESEARCH WORK/PROJECTS

1999-pres.	<p>Project Manager - 6 research grants obtained by international competitions (member in 8 projects)</p> <ul style="list-style-type: none"> ➤ H2020-LC-SC3-2018-2019-2020/H2020-LC-SC3-EE-2018 - <i>A holistic framework for Empowering SME's capacity to increase their energy efficiency</i>, 847132-SMEmPower Efficiency-2019-2022, https://smempower.com/ ➤ H2020-LC-SC3-2018-2019-2020/H2020-LC-SC3-2018-RES - <i>Renewable Cogeneration and Storage Technologies Integration for energy Autonomous Buildings</i>, 815301-RE-COGNITION-2019-2022 https://re-cognition-project.eu/ ➤ HORIZON 2020 – EE-2016 – REP 696114 DR-BOB: <i>Demand Response in Blocks of Buildings</i>, 2016-2019, http://www.dr-bob.eu/ ➤ HORIZON 2020-EE-2014-CSA - <i>Meeting the energy professional skills</i>, 649773-MENs, 2014-2017, http://www.mens-nzeb.eu/en/ ➤ H2020-LC-SC3-EE-2019: <i>Generate Energy Efficient Acting and Results at Small & Medium Enterprises</i> – 894356 - GEAR at SME, 2020-2023, https://www.gearatsme.eu/ ➤ SEE 28.407/26.05.2017 - <i>EmPower Efficiency: Enhancing the Transfer of Research and Development Methods in Energy-related Clusters from Norway to Romania</i> <p>Project Manager – 3 research grants obtained by national competitions (member in 18 projects)</p> <ul style="list-style-type: none"> ➤ CNCSIS TE 34: <i>Modelling, prediction and design solutions, with maximum effectiveness, for reducing the impact of stray currents on underground metallic gas pipelines</i>, 2010-2013 ➤ CNCSIS CEE X2C37: <i>Impact of electromagnetic fields on eco-systems</i>, 2007-2009 ➤ CNCSIS AT_224: <i>Design optimization of electromagnetic devices based on EMF synthesis</i>, 2007-2008 <p>Project Manager - 16 projects for industry (member in 20 projects)</p>
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RESEARCH WORK/PAPERS

<ul style="list-style-type: none"> ➤ 10 - Scientific books published in publishing houses with prestige (9 first author) ➤ 4 - Book chapters published in an international publishing house ➤ 266 - Scientific papers published: <ul style="list-style-type: none"> • 27 - ISI Thomson Journals Q1, Q2, Q3; • 49 - ISI Thomson Proceedings; • 38- indexed in IEEExplore, Scopus • 152 - indexed in other data bases or published in Romanian B+Journals
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ORGANISATIONAL SKILLS

2020-pres	Scientific Expert – <i>Engineering Committee - National Research Scientific Council (CNCS)</i>
2020-pres	President – <i>TUCN Senate Research Commission</i>
2020-prez	Scientific Expert– <i>CeS-UTCN – Excelenta stiintifica si specializare inteligenta, proiect POC</i>
2014-2017	Asistent Manager – <i>PARTING-Parteneriat interuniversitar pentru excelenta in inginerie, proiect POSDRU</i>
2014	General Chairman - <i>49th International Universities Power Engineering Conference - Cluj-Napoca, 2-5 Sept. 2014</i>
2012-pres.	Member of the <i>Scientific Research Council</i> – Technical University of Cluj Napoca

2010-pres.	Director of <i>Numerical Methods Research Center</i>
2009-pres.	Reviewer at <i>International ISI Journals</i> (10)
2009-pres.	Member of International Steering Committees (12)
2008-2020.	Member of the <i>Electrical Engineering Faculty Council</i> – Technical University of Cluj-Napoca
2006-2010	Scientific expert - <i>RDI Project Manager at INOVARE Programme</i> — AMCSIT-Bucharest
2005-pres.	Member of <i>IEEE, AGIR, IRE, USE-Efficiency, CREESC</i>

RESEARCH/TEACHING- SHORT STAGES

(more than 50; selection)

<p>2000/2001 – Vrije Universiteit Brussels, Belgium; 2003/2005/2008/2014- Federico II University, Italy; 2008/2011/2015 – University of Padova, Italy; 2007 – Aristotle University of Salonic, Greece; 2008 – Budapest University of Technology, Hungary; 2009 - University of Sao Paolo, Brazil; 2010/2016 – Frederick University, Cyprus; 2010 – University of Chicago, USA; 2011– Ecole Normale Superior Lyon, France; South Westphalia University, Germany; University of Western Macedonia, Greece; 2012 – Oita University, Japan; University of Cagliari, Italy; 2013 - University of Novi Sad, Serbia; 2014-University of Porto, Portugal; 2015–University of the West of England, UK; University of Patras, Greece; 2016 – University of Coimbra, Portugal; Novosibirsk State Technical University, Russia; 2017–The University of Hong Kong; Lehigh University, USA; Temple University, USA; University of Florida; 2018 –San-Diego University, USA; Texas Southern University, USA; 2019 – Beijing Jiaotong University, China; Cork Technological Institute, Ireland; 2020 – Brunel University London, UK</p>

AWARDS

2019	<i>Best European Energy Service Project granted to Technical University of Cluj-Napoca & Cluj-Napoca City Municipality - by EU Commission - Brussels – February 2019</i> (LCMN – team award)
2018	<i>AEE Regional Award for Institutional Energy Management Association - by Association of Energy Engineers (AEE) on World Energy Engineering Congress – Charlotte, USA – October 2018</i> (LCMN – team award)
2015	<i>Romanian Energy Award – Special Jury Award</i> (LCMN – team award)
2014	<i>Excellence Award for research publications</i> (individual award)
2012	<i>Professor Bologna National Prize</i> (individual award)
2008	<i>Excellence Award of Technical University of Cluj-Napoca for young researchers</i> (individual award)
2008	<i>2nd Prize for Research Projects - CEEEx No. 136/2006: Intelligent and active diagnosis and prediction of buildings in a complex polluted environment</i> (team award)
2008-2019	<p>National prizes awarded by National Authority of Scientific Research - for <i>ISI Journal papers</i>:</p> <ul style="list-style-type: none"> ➤ 2008 - PN-II-RU-PRECISI-2008-2 for: <i>Synthesis Method of an inductive sensor using Tikhonov Regularization Procedure</i> - (International Journal of Applied Electromagnetics – IJAEM Journal) ➤ 2009 - PN-II-RU-PRECISI-2009-3/1 for: <i>Numerical Evaluation of induced voltages in the metallic underground pipelines</i> - (Revue Roumaine des Sciences Technique – RRST Journal) ➤ 2009 - PN-II-RU-PRECISI-2009-3/2 for: <i>Original Approaches for solving electromagnetic interference problems</i> – (Advances in Electrical and Computer Engineering – AECE Journal) ➤ 2014 - PN-II-RU-PRECISI-2013-7-3768 for: <i>AC Interference on pipelines due to double circuit power lines. A detailed study</i> - (Electric Power System Research – EPSR Journal) ➤ 2018 - PN-III-P1-1.1-PRECISI-2018-25344: <i>Synchronous reluctance machine geometry optimisation through a genetic algorithm based technique</i> – (IET Electric Power Applications – IET Journal) ➤ 2019 - PN-III-P1-1.1- PRECISI-2019- 31032: <i>A Modeling Study of Narrow Electric Field Signatures Produced by Lightning Strikes to Tall Towers</i> – (Journal of Geophysical Research-Atmospheres)

LANGUAGE SKILLS

Mother tongue(s) Other language(s)	Romanian				
	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	B1	B1
Italian	C1	C1	C1	B1	B1
Hungarian	C1	C1	C1	B1	B1

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

COMMUNICATION SKILLS

Good communication skills gained through:

- teaching experience (advisor of undergraduate projects / dissertations/student symposium (min. 5/year))
- speaker at International Conferences (**more than 150**)
- research experience (team work in the frame of research projects – manager or member of the research group)
- research/teaching stages at foreign universities (**more than 50**)
- Erasmus coordinator (**21 international institutional agreements**)

COMPUTER SKILLS

Specialized Software Packages:

- in Electromagnetics, Electrostatics, Circuits (ORCAD, COMSOLE, INTERSTUD, XGSLAB, CDEGS)
- in Power System (EDSA, TYSYSTEM, EMTP, POWERWORLD)
- in Numerical Methods (MATHCAD, MATLAB, MATHEMATICA)

OTHER SKILLS

- 1982-1987 – School of arts, Violin
- 1984 – 1993 – Soccer player (3rd division)
- 1993-1994 - Soccer player (2nd division)
- Driver licence B-category

ADDITIONAL INFORMATION

Papers/projects: <https://lcmn.utcluj.ro/dan-doru-micu/> and https://www.researchgate.net/profile/Dan_Micu2
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UEFISCDI ID (UEF-ID): **U-1700-030M-3027**

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Professor Dan D. Micu 