


PERSONAL INFORMATION

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|  | Dan Doru MICU |
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| | http://users.utcluj.ro/~lcmn, http://ethm.utcluj.ro/www/personal-didactic/ |

WORK EXPERIENCE

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|--------------------------|---|
| 2015-pres. | Professor - Technical University of Cluj-Napoca, Faculty of Electrical Engineering |
| | Courses: Numerical Methods; Complements of Mathematics; Basics of Electrotechnics PhD Advisor in Electrical Engineering |
| Sept.2017- Feb. 2018 | Professor (Fulbright Senior Fellowship) - University of Florida, Department of Electrical and Computer Engineering, FL, USA |
| | Professor (Outreach Lecturing Found) – Texas Southern University, Department of Electrical and Computer Engineering, TX, USA |
| | Lectures: <i>Introduction to Numerical Methods of Engineering Analysis; Mathematical background in computational electromagnetics; General solution of the time dependent Maxwell Equations; Mathematical development for the electric and magnetic field general expressions for a vertical lightning channel above ground; Numerical methods in computational electromagnetics and electric circuits; Industrial case studies approached by numerical methods.</i> |
| | PhD Committee member: <i>Characterization of Florida Lightning with Emphasis on the Preliminary Breakdown Process</i> – Yanan Zhu, PHD Advisor: Prof. Vladimir Rakov |
| 2007-2015 | Associate Professor - Technical University of Cluj-Napoca, Faculty of Electrical Engineering |
| | Courses: Numerical Methods; Complements of Mathematics; Basics of Electrotechnics Seminars: Electromagnetics and Electrostatics; Electrical Circuits |
| 2006-2010 (part time) | Scientific Expert – Managerial Agency of Scientific Research, Inovation and Technological Transfer, Bucharest-Ministry of Education and Research, 313 Splaiul Ind. www.amcsit.ro |
| | Project Management for INOVARE Programme |
| 2004-2007 | Lecturer - Technical University of Cluj-Napoca, Faculty of Electrical Engineering |
| | Course and Laboratory: Numerical Methods; Seminars: Electromagnetics and Electrostatics; Electrical Circuits; High Voltage Engineering; 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 |

EDUCATION

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|-------------|---|
| 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> |
| 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> |
| 2000-2003 | 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 |
| 1993-1998 | 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

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|------------|--|
| 1999-pres. | <p>Project Manager - 3 research grants obtained by international competitions (member in 6 projects)</p> <ul style="list-style-type: none"> ➤ HORIZON 2020-EE-2014-CSA 649773-MENS: <i>Meeting the energy professional skills</i>, 2014-2017, http://www.mens-nzeb.eu/en/ ➤ HORIZON 2020 – EE-2016 – REP 696114 DR-BOB: <i>Demand Response in Blocks of Buildings</i>, 2016-2019, http://www.dr-bob.eu/ ➤ SEE 28.407/26.05.2017 - EmPower Efficiency: <i>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 15 projects)</p> <ul style="list-style-type: none"> ➤ CNC SIS 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 ➤ CNC SIS CEE x X2C37: <i>Impact of electromagnetic fields on eco-systems</i>, 2007-2009 ➤ CNC SIS 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) – Companies: TRANSGAZ, ENERGOBIT, POWERDESIGN, PETROM, ELECTROVALCEA, SERVELECT, UTILITAS, ELECTROMONTAJ, TENARIS, BETA, HITECH, PRIMOSAL, ACTIV, ZAHARUL, RATUC, ELECTROPLUS, ENERGOM, ROMATSA.</p> |
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RESEARCH WORK/PAPERS

- **11** - Scientific books published in publishing houses with prestige (9 first author)
 - **1** - Book chapter published in an international publishing house
- **217** - Scientific papers published:
 - **47** - ISI Thomson Journals (**20**), ISI Thomson Proceedings (**27**)
 - **32** - indexed in international data bases - IEEExplore, Scopus
 - **113** – indexed in other international data bases – Google Scholar
 - **25** - presented at not indexed national/international conferences

ORGANISATIONAL SKILLS

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|------------|--|
| 2014 | General Chairman - <i>49th International Universities Power Engineering Conference</i> - Cluj-Napoca, 2-5 Sept. 2014 |
| 2012-pres. | Member of the <i>Scientific Research Council</i> – Technical University of Cluj Napoca |
| 2011-pres. | Member of International Steering Committee - <i>International Universities Power Engineering Conference UPEC</i> |
| 2010-pres. | Director of <i>Numerical Methods Research Center</i> |
| 2009-pres. | Reviewer at <i>International ISI Journals</i> (IEEE T-MAG, IEEE T-EMC, COMPEL, EPSR, RENE) |
| 2009-pres. | Member of International Steering Committee - <i>International Conference on Electromagnetic Fields - EHE</i> |
| 2008-pres. | 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 STAGES/ VISITING PROFESSOR

1997/1998/2004/2012 - Federico II University, Italy; **1999/2007/2012** – Sapienza University of Roma, Italy;
2000 – **2001/2003** – Vrije Universiteit Brussels, Belgium; **2003** – University of Gent, Belgium;
2006 – Technical University of Aachen, Germany; **2006** – Lille University of Science and Technology, France;
2007 – Czech Technical University, Czech Republic; **2007/2008** – Aristotle University of Thessaloniki, Greece;
2007- Polytechnic University of Catalonia, Spain; **2008** – University of Santander, Spain;
2008/2009/2011/2015 – University of Padova, Italy; **2008/2012/2013** – Budapest University of Technology, Hungary;
2009 - Lodz University of Technology, Poland; **2009** – University of Strathclyde, Scotland;
2009 – University of Sao Paulo, Brazil; **2010/2016** – Frederick University, Cyprus; **2010** – University of Chicago, USA;
2010 - Cardiff University, Wales; **2011/2017** – South Westphalia University of Applied Sciences, Germany;
2011 – Wroclaw University of Science and Technology, Poland; **2011/2016** – University of Coimbra, Portugal;
2011 – University of Western Macedonia, Greece; **2011** – Ecole Normale Superior Lyon, France;
2011/2012 – University of Novi Sad, Serbia; **2012/2014/2015** – University of Brunel, UK;
2012 - University of Metz, France, **2013** – University of Nis, Serbia; **2012/2013** – University of Cagliari, Italy;
2012 – Oita University, Japan; **2013** – Dublin Institute of Technology, Ireland; **2014** – University of Porto, Portugal;
2014– Shanghai JiaoTong University, China; **2015**–Staffordshire University, England; **2015/2017**–Università Roma Tre, Italy;
2015–University of the West of England, UK; **2015**–University of Patras, Greece; **2015**–Polytechnic of Milan, Italy;
2016 - Novosibirsk State Technical University, Russia; **2017** – Lehigh University, USA; **2017** – Temple University, USA;
2017 – University of Valencia, Spain; **2017** – University of Crete, Greece; **2017** – Ostfold University, Norway;
2017 – Université Libre de Bruxelles, Belgium; **2017** – University of Florida, USA

AWARDS

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|------------------|--|
| 2015 | <i>Romanian Energy Award – Special Jury Award (LCMN - team)</i> |
| 2014 | <i>Excellence Award for research publications – ISI Journal Publications</i> |
| 2012 | <i>Professor Bologna National Prize</i> |
| 2008 | <i>Excellence Award of Technical University of Cluj-Napoca for young researchers</i> |
| 2008 | <i>2nd Prize for Research Projects - Development in priority area: Informational Social Technologies - CEEEx No. 136/2006: Intelligent and active diagnosis and prediction of buildings with resistance structure in a complex polluted environment - DIRECTOR, (TUCN-Team)</i> |
| 2008-2013 | National prizes awarded by National Authority of Scientific Research - for <i>ISI Journal papers</i> : <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) ➤ 2013 - 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) |

LANGUAGE SKILLS

| Mother tongue(s) Other language(s) | Romanian | | SPEAKING | | WRITING |
|---------------------------------------|---------------|---------|--------------------|-------------------|---------|
| | UNDERSTANDING | | Spoken interaction | Spoken production | |
| | Listening | Reading | | | |
| 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 (min. 5/year)
- tutor of Electrotechnics specialization (2010-2016)
- advisor of students on Student Symposium (min. 3/year)
- attended at more than 60 international conferences
- research experience (team work in the frame of research projects – manager or member of the research group)
- research/teaching stages at foreign universities
- Erasmus coordinator (19 international institutional agreements)

COMPUTER SKILLS

Specialized Software Packages:

- in Electromagnetics, Electrostatics, Circuits (ORCAD, COMSOLE, INTERFSTUD, 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

Complete list of papers and projects: <http://users.utcluj.ro/~lcmn/members/DD-Micu/publications.pdf>

November 2017

Prof.dr.eng.math. Dan D. Micu