

## Curriculum Vitae

### Personal information

Name / SURNAME **Călin MUNTEANU**  
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 Nationality Romanian  
 Birth date



### Work experience

Period Starting with 1990  
 Name and address of the employer Technical University of Cluj-Napoca, Romania, [www.utcluj.ro](http://www.utcluj.ro)  
 Faculty of Electrical Engineering, <http://ie.utcluj.ro/>  
 Position held Professor (starting with 2003)  
 Main activities and responsibilities

- ✦ Higher education and research in the field of Electrical Engineering (starting with 1990)
- ✦ Erasmus Programme Coordinator of Electrical Engineering Faculty (2000 – 2012)
- ✦ Head of Electromagnetic Compatibility Laboratory (starting with 2004)
- ✦ PhD Theses supervisor (starting with 2004)
- ✦ Member of the Electrical Engineering Faculty Council (starting with 2004)
- ✦ Member of the University Council for Research (2008 – 2012)
- ✦ Head of the Electromagnetic Field Numerical Modelling Laboratory belonging to the Applied Electromagnetics Research Centre – ELMA (starting with 2010)
- ✦ Member of the University Doctorate Studies Council (2011 – 2014)
- ✦ Member of the Commission for Electrical Engineering from the National Council for Attesting Titles, Diplomas and University Certificates – CNATDCU (starting with 2011)
- ✦ Head of Electrotechnics and Measurements Department (starting with 2012)
- ✦ Member of the Doctoral School Council Board from Electrical Engineering Faculty (starting 2014)
- ✦ Member of the Energy Commission of the Romanian Academy (starting with 2015)

### Education and Training

Period March 2014  
 Title / qualification obtained Project Manager  
 Educational / Training organization's name Smart Projects Association, Bucharest

Period 1992 – 1999  
 Title / qualification obtained PhD in Electrical Engineering  
 Main topic Thesis title: '*Contributions to the Boundary Elements Method implementation for the numerical modelling of the electromagnetic and thermal problems*'  
 Educational / Training organization's name Technical University of Cluj-Napoca, Romania

Period 1984 – 1989  
 Title / qualification obtained Engineer, Electric profile, Electric Drives specialization  
 Educational / Training organization's name Technical University of Cluj-Napoca, Romania

Period 1979 – 1983  
 Title / qualification obtained Baccalaureate, Mathematics – Physics profile  
 Educational / Training organization's name „Gheorghe Sincai” High School, Baia-Mare, Romania

## Didactic activity

- Courses given
- Electric Circuits Theory (Bachelor's degree)
  - Electromagnetic Field Theory (Bachelor's degree)
  - Fundamentals of Electrotechnics (Bachelor's degree)
  - Electromagnetic Waves (Bachelor's degree)
  - Optimal Design of Electromagnetic Devices (Bachelor's degree)
  - Electromagnetic Compatibility, Standardization and Testing (Master degree)
  - Optimization Techniques for Advanced Electrical Systems and Structures (Master degree)
  - Applied Electromagnetics (Doctoral School course from Technical University Cluj-Napoca)
- Cooperation with European Union
- 1994-1997 – Member of the TEMPUS S\_JEP 8001/94 Programme
  - 1997-2000 – Member of the TEMPUS S\_JEP 12080/97 Programme
  - 1998-2001 – Member of the TEMPUS AC\_JEP 13449-98 Programme

## Research activity

- Grants obtained by national competition
- 2018–2020 – Partner Team Leader, contract PN-III-P1-1.2-PCCDI-2017-0652 with title: *Innovative technologies for advanced recovery of waste materials from IT and telecommunication equipment*
  - 2017–2020 - Key Expert, contract PN-III-P2-2.1-SOL-2016-06-0061, with title: *Compact retrodirective antenna array for wireless systems operating in the IEEE 802.11 and IEEE 802.16 frequency bands*
  - 2016–2018 - Key Expert, contract PN-III-P2-2.1-BG-2016-0388 with title: *Multiscale-Multigrid Simulator of Electro-Thermo-Mechanical Processes in the Power Integrated Circuits*
  - 2014-2017 – Manager, contract PN-II-PT-PCCA-2013-4-1019 with title: *Coupled Electromagnetic Interferences and Vibration Analysis for Safe Automotive Electrical Actuators – CEMIVA*
  - 2008-2011 – Manager, contract PN-II-ID-PCE-2008-2-2539 with title: *Integrated Software Package for the Analysis and Prediction of the Electromagnetic Pollution Generated by HV Lines and Substations on the Neighbour Metallic Structures and their Cathodic Protection*
  - 2005-2008 – Manager, contract CNCSIS Topic A18, Code CNCSIS 986 with title: *Structural Optimal Design Algorithms for the Parasitic Inductivities Suppression in Nanometre Electronic Circuits*
  - 1996-2011 – Member in the research team of 7 grants financed by CNCSU, ANSTI, CNCSIS, CEEEX
- Research / Consulting projects with industrial partners (value more than 2000 EUR)
- 2006-2014 – Manager of 10 research projects with industrial partners: FDEE Transilvania Nord SA, Energobit SA, Electrogrup SA, Electromontaj Cluj SA, Siemens Energy Bucharest, Rom Proiect Electro Cluj, Electro Dalex Cluj, Automatic Systems Craiova.
  - 2010-2011 – Member of the team in 2 research projects with the industrial partner SNTGN Transgaz SA Medias.
- Grants obtained by international competition
- 2005-2007 – Co-Promoter of NATO Collaborative Linkage Grants– CLG. PST.CLG. 982075.
  - 2004-2007 – Co-Promoter of the bilateral research project between Flanders (Belgium) – Romania BIL BWS04/03, partners VUB Brussels, Technical University of Cluj-Napoca.
  - 2002-2004 – Co-Promoter of the bilateral research project between Flanders (Belgium) – Romania BIL BWS05/02, partners VUB Brussels, Technical University of Cluj-Napoca.
  - 2001-2004 – Member of the research team, NATO Collaborative Linkage Grants – CLG. PST.CLG. 978487.
  - 2000-2003 – Member of the research team, bilateral research project between Flanders (Belgium) – Romania BIL 37 / 2000, partners VUB Brussels, Technical University of Cluj-Napoca.
  - 1997-2000 – Member of the research team, bilateral research project between Flanders (Belgium) – Romania BIL 96/174B0697, partners University of Gent, VUB Brussels and Technical University of Cluj-Napoca.
  - 1996-1999 – Romanian partner team leader in the EU INCO-COPERNICUS 960113 Grant, partners University of Gent (B) – contractor, INSERM Lille (F), Technical University of Lods Lodz (PL), Technical University of Cluj-Napoca (RO).



- Publications
- ✚ 12 books as single author, first author or co-author, meaning 1 book in international printing house and 6 books in national printing houses;
  - ✚ More than 280 scientific articles published in national and international journals / conferences from where:
    - ❖ 101 WOS indexed articles, 181 times cited;
    - ❖ 108 SCOPUS indexed articles, 317 times cited;
    - ❖ 167 Google Scholar indexed articles, 510 times cited;

- Institutional projects**
- 2014-2015 – Manager, EU funding project POSDRU/159/1.5/S/137516 with title: *Interuniversity Partnership for Excellence in Engineering – PARTING*.
  - 2010-2012 – Member in the EU funding project POSDRU/89/1.5/S/52603 with title: *Development and Sustainability of the Interdisciplinary Postdoctoral Programmes in Priority Technical Domains of the National Innovation – Development – Research Strategy – 4D – POSTDOC*.

**Additional information**

- Awards / Patens
- ✚ 2008: „Liviu Mânduc” Award for excellence in scientific research and promotion of the University prestige, granted by the University Senate on 31.01.2008.
  - ✚ 2007: Patent no. 120998 with title: *Power Supply and Protection Electric System for the Radio Communication Devices*.
  - ✚ 2000: "Gheorghe Cărtianu" Romanian Academy Award for the book *Optimal Design of the Electromagnetic Devices using Numerical Techniques*, VUBPRESS Brussels, Belgium, ISBN 90-5487-288-8.
- Member of professional societies
- ✚ IEEE Electromagnetic Compatibility
  - ✚ IEEE Power Engineering
  - ✚ IEEE Power Electronics
  - ✚ IEEE Microwave Theory and Techniques
  - ✚ CIGRE Paris
  - ✚ Romanian Association for Electromagnetic Compatibility – ACER
  - ✚ Romanian National Committee of CIGRE
  - ✚ Romanian National Committee of World Energy Council – WEC
- Other relevant activities
- ✚ Supervisor of 10 PhD Theses defended in Electrical Engineering profile;
  - ✚ Member of 2 international public defence PhD Theses (VUB Brussels, Belgium);
  - ✚ Member of 58 national public defence PhD Theses;
  - ✚ 34 WOS verified Reviewers;
  - ✚ Chairman of the following editions of the *International Conference on Modern Power Systems – MPS*, Cluj-Napoca, Romania: 2006, 2008, 2010, 2011, 2013, 2015, 2017 and 2019, [www.et.utcluj.ro/mps](http://www.et.utcluj.ro/mps) (WOS, IEEE indexed);
  - ✚ Member of the organizing Committee of the 2003 and 2005 editions of the *International Workshop on Advances in Numerical Computation Methods in Electromagnetism - ANCME*, Gent (2003), Brussels (2005), Belgium;
  - ✚ Member of the scientific Committee and Reviewer for the following ISI indexed Conferences: EPE (2012 – 2018), OPTIM (2014 -2018) ICHQP 2014, ICATE 2012 – 2018), CIEM (2015 – 2019);
  - ✚ Member in Councils / Organizations in the field of international research: CIGRE Paris: C4 Study Committee, WG C4.28, AG C4.2, AG C4.3;
  - ✚ Head of the C4 Study Committee from the CIGRE Romanian National Committee;

Cluj-Napoca,  
26.04.2020

Prof. Dr. eng. Călin MUNTEANU

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