

## 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 Lodz 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 Mănduc” 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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