

PERSONAL INFORMATION

**Petre Lucian OGRUȚAN**



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POSITION

Professor, Transilvania University of Braşov  
 PhD Coordinator, Doctoral studies field: Electronics, Telecommunications and Information Technologies

EXPERTISE FIELD AND RESEARCH INTEREST AREAS

Electromagnetic Compatibility, Interfacing, Peripheral equipments, Microcontrollers

WORK EXPERIENCE

1992- present

**Lecturer, Associate Professor, Professor**

Transilvania University of Braşov, 29, Eroilor Blvd., 500036 Braşov, [www.unitbv.ro](http://www.unitbv.ro)

- Educational and research activities

**Business or sector** Education

1983-1992

**Engineer**

Maintenance and Repair of Computer Equipment and Professional Electronics Company, Bucharest

- Repair, research and design activities

**Business or sector** Research

EDUCATION AND TRAINING

1994-1997

**Doctoral studies**

Replace with EQF (or other) level if relevant

Transylvania University of Braşov, 29, Eroilor Blvd., 500036 Braşov, [www.unitbv.ro](http://www.unitbv.ro)

- Electromagnetic Compatibility, Computers

1977-1983

**Engineer**

Technical University of Cluj, the Electronic and Telecommunications Studies Program

Long-term academic studies

PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B1	B1	B2	B2	B1
Replace with name of language certificate. Enter level if known.					
French	B1	B1	B2	B1	B1
Replace with name of language certificate. Enter level if known.					

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user  
[Common European Framework of Reference for Languages](#)

Communication skills Teamwork spirit gained in the professional activities (research projects, staff management), capacity to adapt at multicultural levels gained in intership projects. Good communication skills with students.

Organisational / managerial skills Experience in coordination, administration and decision for some research national programmes such as: CEEEX (excellence research Programme) 2006 -2009, CNCSIS (2006 – 2009). Coordination and organization of international conference: SIITME 2009 ([www.siiime.ro](http://www.siiime.ro)). Member in International Steering Committee SIITME.

Job-related skills Competences in microcontrollers, interfacing and electromagnetic compatibility as well as in didactic aspects. Technical skills are primarily proven by patents, research and education activities, and published works.

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

Levels: Basic user - Independent user - Proficient user  
[Digital competences - Self-assessment grid](#)

- good command of office suite (word processor, spread sheet, presentation software)
- good command of photo editing software
- good command of simulation software (Spice, Simulink)

- Other skills
- Photography
  - B driving license

ADDITIONAL INFORMATION

Publications Over one hundred published works  
 Projects 3 projects obtained through competition as a director  
 Conferences Organization of SIITME conference, participation in conferences, reviewer at OPTIM, SIITME, etc.  
 Honours and awards Awards at international fairs inventions  
 Memberships IEEE Education Society, ACER ( Romanian Electromagnetic Compatibility Association)  
 References <http://vega.unitbv.ro/~ogrutan/>  
 H Indexes ISI index 3, Scopus index 3, Google index 6

ANNEXES

## LIST OF RELEVANT PUBLICATIONS /RESEARCH (selection)

### Patents

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1. **P.Ogrutan**, R. Munteanu, L.Suciu, *Short-circuit and overvoltage protection device for electric appliances*, Patent 122067/2008 , Derwent Code(s): T01-J08A; U24-F02; X13-C
2. L. Purghelel, Gh. Morariu, **P. Ogrutan**, M. Alexandru, Cs. Kertesz, L. Suciu, *Method and apparatus for Radon Concentration Measurement and Data Transmission*, Patent 125125/2012, Derwent Code(s): S03-F06A; W01-C05B3F
3. **P. Ogrutan**, L. Aciu, D. Lozneau, I. Rosca, R. Munteanu, *Circuit Breaker and method for protection against leakage current to ground*, Patent application A00880/09.09.2011, Derwent Code(s): U24-F01; X13-C01A
4. C. Stanca, **P. Ogrutan**, C. Gerigan, L. E. Aciu, O. Machidon, *Electronic device and method for detecting the electric arc and load decoupling*, Patent application A/00378/29.05.2018

### Books

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1. **P.Ogrutan**, *Fujitsu microcontrollers and graphics controllers*, Publisher: Ed. of Transilvania University Brasov, 2006, 182 pag, ISBN 973-635-621-3
2. **P. Ogrutan**, L. Aciu, *Electromagnetic Compatibility, Applications*, Publisher: Ed. of Transilvania University Brasov 2007, 156 pag. ISBN 973-635-864-X
3. M. Romanca, **P. Ogrutan**, *Embedded systems. Microcontroller applications*, Publisher: Ed. of Transilvania University Brasov, 2011, ISBN 978-973-598-861-6, 236 p
4. **P. Ogrutan**, *Contributions to engineering education*, Publisher: Ed. Mediamira Cluj-Napoca, 2014, ISBN 978-973-713-311-3, 159 p.
5. **P. Ogrutan**, *Interfacing and protocols at physical and data link layer*, Publisher: Ed. of Transilvania University Brasov, ISBN 978-606-19-0515-7, 2015, 169 p
6. **P. Ogrutan**, *Computers*, Publisher: Ed. of Transilvania University Braşov, 2016, ISBN 978-606-19-0757-1, 269 p

### Papers

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1. L. Aciu, A. M. Cazan, **P. Ogrutan**, *A comparison between two didactical approaches on shielding problems in an electromagnetic compatibility course – Analytical method versus simulation method*, *International Journal of Electrical Engineering Education* , 2015, DOI: 10.1177/0020720915596753, SAGE, p 1-11, Print ISSN: 0020-7209, Online ISSN: 2050-4578, WOS:000372882400008
2. **P.Ogrutan**, F. Sandu, C. Gerigan, *Using Students Own Mobile Phones in Teaching Wireless Programming Techniques Laboratory*, *International Journal of Engineering Education*, Volume: 32, Issue: 2, Pages: 841-848, Part: A, 2016, WOS:000374235000022
3. **P. Ogrutan**, A. M. Cazan, L. E. Aciu, *Difficulties of Evolution from Imitation to Creativity in Engineering Education*, *International Journal of Engineering Education* Vol. 33, No. 6(A), pp. 1–9, 2017 0949-149X
4. Machidon OM, Stanca C, **Ogrutan P**, Gerigan C, Aciu L (2018) Power-system protection device with IoT-based support for integration in smart environments. *PLoS ONE* 13(12): e0208168. <https://doi.org/10.1371/journal.pone.0208168>, <https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0208168>

### Research grants

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1. CNCSIS grant 429/2006, Study of shielding properties of nanotechnology and nanoprocessed materials for their integration into electrical and electronic systems to improve the quality of the environment, 2006-2008
2. CEEEX grant. 747/2006, Researches on the National Radon mapping for the protection of the population in accordance with the requirements of international and EU norms (RADROM), 2006-2008
3. UEFISCDI grant 62PED/2017, Protection system for the security of the use of electricity consumers in the intelligent cities "ELSA", 2017-2018