

PERSONAL INFORMATION

Petru Adrian COTFAS



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Sex Male | Nationality Romanian

WORK EXPERIENCE

- 01/10/2020 → **Prof. PhD**
 Transilvania University of Brasov 29 Eroilor, 500036 Brasov (Romania)
 ▪ Researcher and teacher
 Business or sector Higher Education
- 01/03/2015 → 01.10.2020 **Assoc. Prof. PhD**
 Transilvania University of Brasov 29 Eroilor, 500036 Brasov (Romania)
 ▪ Researcher and teacher
 Business or sector Higher Education
- 01/09/2003 → 01.03.2015 **Lecturer PhD**
 Transilvania University of Brasov 29 Eroilor, 500036 Brasov (Romania)
 ▪ Researcher and teacher
 Business or sector Higher Education
- 01/03/1999 → 01/09/2003 **Assistant**
 Transilvania University of Brasov 29 Eroilor, 500036 Brasov (Romania)
 ▪ Researcher and teacher
 Business or sector Higher Education

EDUCATION AND TRAINING

- 2019 **Habilitation in the domain of Electronics Engineering, Telecommunications and Information Technologies** Level 8
 Transilvania University of Brasov 29 Eroilor, 500036 Brasov (Romania)
 Thesis title: Virtual Instrumentation – Applications in Remote Laboratories and Renewable Energy Sources
- 2011 **CLAD Certification**
 Application development certification exam in LabVIEW – National Instruments ▪
 Graphical programming - NI LabVIEW
- 2007 **Ph.D Diploma in the domain of Materials Science and Engineering** Level 8
 Transilvania University of Brasov 29 Eroilor, 500036 Brasov (Romania)
 Thesis title: Computerized Systems for Studying the Decarburized Layers Using the Fluctuations and Noises Physics
 ▪ Nondestructive Testing, Virtual Instrumentation, Data Acquisition and Analysis
- 1997–2001 **Bachelor's degree in Mathematics and Computer Science** Level 6
 Transilvania University of Brasov 29 Eroilor, 500036 Brasov (Romania)

1997–1998 **Master - Mathematic methods and software products** Level 7
 Transilvania University of Brasov 29 Eroilor, 500036 Brasov (Romania)

1992→ 1997 **Bachelor's degree Mathematics - Physics** Level 6
 Transilvania University of Brasov 29 Eroilor, 500036 Brasov (Romania)
 •Diverse competences in the domains of Mathematics and Physics

PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2
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 • good communication skills gained through my experience as:
 ◦ teacher,
 ◦ research projects coordinator
 ◦ departmental Erasmus coordinator

Social skills • Capacity to work in a team;
 • Capacity to analyze and synthesize;
 • Capacity to assimilate new information and development based on them;

Organisational / managerial skills • Good organizer and coordinator
 • Experience in project management. Project director for an AT-type contract and three SFERA-type international access grants, project manager for a PNII-type contract, and project director for four contracts with third parties; participation as a member in over 30 national and international research projects (TEMPUS, NATO, World Bank, Socrates, Minerva, Matnantech, Sfera etc.).

Digital competence • Advanced in graphical programming language – LabVIEW (CLAD);
 • Advanced user of NI Circuit Design Software – NI Multisim and Ultiboard
 • MS Office (word processor, spread sheet, presentation software)
 • Matlab

Other skills • Renewable energy sources monitoring and characterization;
 • Virtual Instrumentation and data acquisition;
 • Advanced Graphical Programming
 • Numerical signals processing;
 • Circuit design with NI Multisim and NI Ultiboard software
 • Remote control
 • Modern techniques in Education
 • Non-destructive methods for testing and control;

Courses and labs taught

Present
 • General Physics;
 • Measurements in electronics and telecommunications (course);
 • Electronics;
 • Digital electronics;
 • Data acquisition and processing, Virtual Instrumentation;
 • Hardware and software integrated systems;

- Virtual instrumentation
- Remote control of systems;
- Basics of data acquisition systems

Past

- Use of computers and internet services;
- Nanotechnologies;
- Digital signal processing;
- Electromagnetism;
- Basics of Electrotechnics;
- Applied informatics;
- Medical electronics;
- Computational physics;
- Testing of electronic equipment (laboratory only);
- Actuators and sensors (laboratory only);
- Office equipment (laboratory only).

Driving licence B

ADDITIONAL INFORMATION

Projects

Research projects as director or partner project manager:

- International Grant Access SFERA III “ Analysis of PV-TEG Multi-Layer Hybrid Systems in Concentrated Light”, 2022, EU Horizon2020 Contract No: 823802;
- International Grant Access SFERA III “The photovoltaic cells under concentrated light transient conditions study”, 2020, EU Horizon2020 Contract No: 823802;
- International Grant Access SFERA III “The study of the rapid variation effect of concentrated light over the photovoltaic cells”, 2019, EU Horizon2020 Contract No: 823802;
- PN II - National Program Management Center - CNMP, "Research on the realization of a new class of alloys (Al-Cu-Mn) and the realization of a thermomechanical fatigue standard intended for alloys with shape memory" contract no. 72-161/01.10.2008, Budget 300,000 lei, Period 2008-2011;
- Grant type AT 2/301/2002 Ministry of Education and Research, "Research on the application of virtual instrumentation as a method of measurement, testing and control", Budget 86.000.000 lei (old) Period 2002-2003;
- Third parties project with Miele, contract 6930/25.05.202, "Test Process Optimization - EDW B7", Budget 11900 Lei, Period 2022-2023;
- Third parties project with Miele, contract 9639/30.08.2019, "Optical system for checking fuses", Budget 15708 Lei, Period 2019-2020;
- Third parties project with National Instrument, contract 2423/03.03.2014, "Vendor Master Services Agreement", Budget 8431\$, Period 2014;
- Third parties project with IAR Braşov contract 12172/10/09/2013, "Wireless energy and water management system", Budget 2500 Euro, Period 2013

Publications

- Books or book chapters 10
- Articles: >140 (ISI 82, >BDI 38)
- Research and educational grants: 28
- Hindex ISI=14; Hindex Scopus=16; Hindex Google Scholar=17

Teaching activities

- 2013 –TEI of Patras, Grecia and summer school (two weeks);
- 2011 –TEI of Patras, Grecia and summer school „European Summer School on the Renewable Energy Systems”, Patras 1 Iunie-14 Iulie 2011 (two weeks);
- 2010 –TEI of Patras, Grecia and summer school: „European Summer School”, Patras 30 Iunie-14 Iulie 2010 (two weeks);
- 2009 – University of Applied Sciences – Villach, Austria (one week 21-27 September)
- 2009 – “TARET III” (Training in Advanced remote Technologies) 6-20 July 2009 Slovenia – Austria (one week 6-11 July)

Honours and awards

- Gold Medal - EUROINVENT2015;
- National Instruments Graphical System Design Achievement Awards 2013 Education Winner: Developing a Renewable Energy Laboratory Using NI ELVIS, NI LabVIEW, and NI myDAQ, NI Community's Choice and Editor's Choice Award recipient;
- 1st prize at 2012 Romania NIDays Paper Contest;
- Best paper at REV 2012 Embedded system for mini solar vehicle (<http://rev-conference.org/REV2012/>);
- "Award for outstanding contribution made to streamline the process of scientific research" - awarded by the University Transilvania in the event "Transylvania University Awards" – 2005.

Training

- Training School COST 804 action on "ENERGY EFFICIENCY IN LARGE SCALE DISTRIBUTED SYSTEMS", University of the Balearic Islands, Palma de Majorca, Balearic Islands, Spain, 2012
- Training School COST MP 1004, SPA, Automotive Campus, Belgia, 2012;
- Summer school "Highlights in Microtechnology" – Elvetia 2006
- Summer school "Magnetism of nanoscopic systems and hybrid structures" Braşov 2003.
- Lyon, France la "Institut National des Sciences Appliques-INSA", two weeks, 1999, in the frame of TEMPUS-S-JEP-12536-97 project;
- Lyon, France la "Institut National des Sciences Appliques", one week, 2000, in the frame of TEMPUS-S-JEP-12536-97 project;
- Barcelona, Spain la "Universitat Politècnica de Catalunya –UPC", one week, 2000, in the frame of TEMPUS-S-JEP-12536-97 project;).

Conference organizer

Member for:

- REV 2011-International Conference on Remote Engineering and
- Virtual Instrumentation Rev.2011 (<http://fizica.unitbv.ro/rev2011/>)
- EOARD (<http://fizica.unitbv.ro/eoard/>)
- Conferinta Nationala de Instrumentatie Virtuala (National Virtual Instrumentation Conference) CNIV-2009
- Organizing together with National Instruments Romania of 5
- conferences in the domains of Instrumentation, Graphical Programming
- LabVIEW and industrial automation 2008

Memberships

- International Association of Online Engineering
- IEEE Membership
- IEEE Education Society Membership
- Societatea Romana de Fizica (Romanian Physics Society)
- Creding - COALIȚIA ROMÂNĂ pentru EDUCAȚIE in INGINERIE

Reviewer

Journals

- Applied Computing and Informatics, Applied Energy, Applied Science, Applied Thermal Engineering, Computers and Electrical Engineering, Energies, Energy, Energy Conversion and Management, International Journal of Ambient Energy, International Journal of Online and Biomedical Engineering (iJOE), International Journal of Photoenergy, Journal of Clean Production, Journal of Solar Energy Engineering, Measurement, Sensors, Bulgarian Chemical Communications, Sustainable Energy Technologies and Assessments, Heliyon, Renewable energy, Results in Engineering, SN Applied Sciences, Sustainable Energy Grids and Networks, and Sustainable Energy Technologies and Assessments.

Conferences

- Educon, IMET, Optim, REV, TALE

Braşov,
January 2024

Prof.Dr. Petru Adrian COTFAS

