

Curriculum Vitae

PERSONAL INFORMATION	Petru Adrian COTFAS
	⋈ pcotfas@unitbv.ro
POSITION IOSUD UTBv	PhD Coordinator Doctoral studies field: Electronics Engineering, Telecommunications and Information Technologies Since 2019
EXPERTISE FIELD AND RESEARCH INTEREST AREAS	Renewable energy; Virtual Instrumentation; Data acquisition and data processing
WORK EXPERIENCE	
2015 - present 2003-2015 1997-2003	Associate Professor Lecturer Assistant Professor Transilvania University of Brasov , Bd. Eroilor 29, 500036, Brasov, Romania, <u>www.unitbv.ro</u> • Didactic and research activities
EDUCATION AND TRAINING	
December 2019	Habilitation in Electronics Engineering, Telecommunications and Information Technologies
	Virtual Instrumentation – Applications in Remote Laboratories and Renewable Energy Sources
	 Transilvania University of Brasov 29 Eroilor, 500036 Brasov (Romania)
1999-2007	PhD in Materials Science and Engineering
	Computerized Systems for Studying the Decarburized Layers Using the Fluctuations and Noises Physics, Scientific coordinator: Prof. Dr. Eng. Cornel Samoila
	 Transilvania University of Brasov 29 Eroilor, 500036 Brasov (Romania)
1997-1998	Postgraduate studies Mathematic methods and software products • Transilvania University of Brasov 29 Eroilor, 500036 Brasov (Romania)
1997-2001	Bachelor degree studies Mathematics and Computer Science • Transilvania University of Brasov 29 Eroilor, 500036 Brasov (Romania)
1992-1997	Bachelor degree studies Mathematics - Physics • Transilvania University of Brasov 29 Eroilor, 500036 Brasov (Romania)
PERSONAL SKILLS	



Mother tongue(s)	Romania	n					
Other language(s)	UNDERSTANDING		ANDING	SPEAKING		WRITING	
	List	ening	Reading	Spoken interaction	Spoken production		
Replace with language	E	B2	B2	B2	B2	B2	
	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: professor; research projects coordinator; collaboration with industry. 						
Organisational / managerial skills	Good organizer and coordinator • Coordinator of two national financed projects, two third-party projects, and member in the research team of several international and national financed projects and cooperation programmes • (TEMPUS, NATO, World Bank, Socrates, Minerva, Matnantech, Sfera etc.)						
Job-related skills	 Great experience in the field of virtual instrumentation applied for measurement, monitoring and control. Strong knowledge in the fields of: Photovoltaic cells and hybrid systems characterization; Online laboratories Electronic circuit design for measurement and control systems; Data acquisition and data processing. 						
Digital competences	Advanced programming skills in NI LabVIEW, strong skills for using the MS Office software, very good skills in electronic circuit design using NI Multisim and NI Ultiboard, good programming skills in Matlab.						
ADDITIONAL INFORMATION							
Projects	As project 1. 2. 3. 4. 5. 6.	t coordinato SFERA III "T 2019:EU Hor PN II - CNMF of a standa 161/01.10.20 Grant AT 2/3 instrumentatia 2003; Third-party pr fuses, 2019; Third-party pr Budget 84313 Third-party p management	r he study of the raj izon2020, contract n ?, "Research on the of rd of thermomech 08, Budget 300000le 01/2002, Ministry con on as a method of oject Miele Tehnica oject Mational Instru \$, 2014 roject IAR Brasov of ", Budget 2500 Euro	bid variation effect of co o:823802; development of a new cl. anical fatigue for alloy si, 2008-2011; of Education and Resea measurement, testing an SRL, Contract no. 9639 ment contract 2423/03.0 contract 12172/10/09/20 , 2013	oncentrated light over th ass of alloys (Al-Cu-Mn) /s with shape memor arch, "Research on the nd control", Budget 8600 //30.08.2019: Optical sys 3.2014, "Vendor Master 13, "Wireless system fo	ne photovoltaic cells", and the achievement y" contract no. 72- application of virtual 00000lei(vechi) 2002- stem for inspection of Services Agreement", or energy and water	
Honours and awards	1. 2. 3. 4. 5. 6. 7. 8.	Gold Medal National Ins Winner: Developing NI Community 1st prize at 2 Best paper 3 org/REV207 "Award for c	- EUROINVENT2 truments Graphica a Renewable Ene s Choice and Edit 2012 Romania NII at REV 2012 Emb 12/); sutstanding contrib	015; al System Design Achi rgy Laboratory Using or's Choice Award rec Days Paper Contest; edded system for mini ution made to streaml	evement Awards 201: NI ELVIS, NI LabVIEV ipient; i solar vehicle (http://re ine the process of scie	3 Education V, and NI myDAQ, evconference. entific research" -	



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awarded

9. by the University Transilvania in the event "Transylvania University Awards" -2005.

Memberships	 IEEE (Institute of Electrical and Electronics Engineers) - IEEE Education Society și IEEE Instrumentation and Measurement Society; International Association of Online Engineering; Romanian Physics Society; Creding - COALIȚIA ROMÂNĂ pentru EDUCAȚIE in INGINERIE.
Summary of the main achievements	 International books:1 International chapters of book: 4 national books: 5 ISI papers: 46 from which 24 in journals (IF_{Wos}=69,7) BDI papers:18 Conference proceedings: 48 (international conferences) and 18 (national conferences) Patents: 2 proposals
Relevant publications	 S.Mahmoudinezhad, PA.Cotfas, D.T.Cotfas, L.A.Rosendahl, A.Rezania, Response of thermoelectric generators to Bi2Te3 and Zn4Sb3 energy harvester materials under variant solar radiation, Renewable Energy, Vol.146, 2020, pp 2488-2498; D.T. Cotfas, P. A. Cotfas, Multiconcept Methods to Enhance Photovoltaic System Efficiency, International Journal of Photoenergy, Volume 2019, Article ID 1905041; D.T. Cotfas, P. A. Cotfas, Comparative Study of Two Commercial Photovoltaic Panels under Natural Sunlight Conditions, International Journal of Photoenergy, Volume 2019, Article ID 8365175; Daniel T.Cotfas, Adrian M.Deaconu, Petru A.Cotfas, Application of successive discretization algorithm for determining photovoltaic cells parameters, Energy Conversion and Management, Vol. 196, 2019, pp 545-556; S. Mahmoudinezhad, S. Ahmadi Atouei, P.A. Cotfas, D.T. Cotfas, L.A. Rosendahl, A. Rezania, Experimental and numerical study on the transient behavior of multijunction solar cell-thermoelectric generator hybrid system, Energy Conversion and Management, Vol. 184, 2019, pp. 448-455; S. Mahmoudinezhad, A. Rezania, P.A. Cotfas, D.T. Cotfas, L.A. Rosendahl, Transient behavior of concentrated solar oxide thermoelectric generator, Energy 168, 2019, 823-832; S. Mahmoudinezhad, A. Rezania, D.T. Cotfas, P.A. Cotfas, L.A. Rosendahl, Experimental and numerical investigation of hybrid concentrated photovoltaic - Thermoelectric module under low solar concentration, Energy 159, 2018, pp. 1123-1131; P.A. Cotfas, D.T. Cotfas; D.E. Cotfas; Leveraging Web Services and FPGA Dynamic Partial Reconfiguration in a Virtual Hardware Design Lab, International Journal of Engineering Education, Vo1.33, 2(B), 2017; P.A. Cotfas, D.T.Cotfas; D.E.Gotfas, N.D.Cotfas; Leveraging Web Services and FPGA Dynamic cells; Review, Renewable & Sustainable Energy Reviews, Vol.61, August 2016, https://doi.org/10.1016/j.measurement.2016.06.060; D.T.Cotf
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 Ia "Institut National des Sciences Appliques-INSA", twoo weeks, 1999, in the frame of TEMPUS-S-JEP-12536-97 project; Lyon, France Ia "Institut National des Sciences Appliques", one week, 2000, in the frame of TEMPUS-S-JEP-12536-97 project;

7. Barcelona, Spain la "Universitat Politècnica de Catalunya –UPC", one week, 2000, in the frame of TEMPUS-S-JEP-12536-97 project;



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Teaching activities

1. 2013 -TEI of Patras, Grecia and summer school (two weeks);

- 2. 2011 TEI of Patras, Grecia and summer school "European Summer School on the Renewable Energy Systems", Patras 1 Iunie-14 Iulie 2011 (two weeks);
- 3. 2010 TEI of Patras, Grecia and summer school: "European Summer School", Patras 30 Iunie-14 Iulie 2010 (two weeks);
- 4. 2009 University of Applied Sciences Villach, Austria (one week 21-27 September)
- 5. 2009 "TARET III" (Training in Advanced remote Technologies) 6-20 July 2009 Slovenia Austria (one week 6-11 July)

H Indexes Google Scholar: 10; Scopus: 7; Web of Science Clarivate Analytics: 5