



Europass Curriculum Vitae

Personal information



Valeriu, DAVID

First name / Surname
Address
Telephones
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Nationality Date of birth

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Romanian 26.08.1959

Work experience

Dates
Occupation or position held
Main activities and responsibilities

2003 – today;	1999 -2003;	1994 – 1999;	1990 - 1994
Professor;	Associate Professor;	Lecturer;	Assistant Professor

PhD Coordinator in "Electrical Engineering" since 2009 (7 PhD Thesis coordinated and awarded; 5 PhD Students preparing to submit)
Member of the implementation team (type A expert) in the "Doctoral Scholarship for research performance at the European level (EURODOC)" - ID 59410, 2009-2012.
Tutor (type A expert) in the project "Performance by postdoctoral for the integration in the European research area PERFORM-ERA" POSDRU/89/1.5/S57649, 2011-2013.
Scientific research: Director of three national research projects and technical director as partner in an European project (FP6);

Achievements:

- Proposal of absorbers panels and/or electromagnetic shields, based on chiral honeycomb structures, in order to ensure the electromagnetic protection of buildings (hospitals, radio-TV command stations, RADAR, etc); Determining the reflection and transmission properties of the electromagnetic absorbers/shields by simulation (numerical methods in electromagnetism) and by "in situ" measurements; The design and characterization of materials with a view to being used in electromagnetic protection.
- Proposal of some measurement systems for automatic survey of the magnetic/electric fields; Conceiving and implementing of two magnetic field measurement devices with a wide bandwidth (50 Hz ÷ 200 kHz) and, based on these, proposing triaxial field measurements; Proposal of new sensors capable of measuring simultaneously the electric and magnetic field (measuring with a single sensor E and H in the frequency range 50 Hz ÷ 100 kHz) and a measurement system for automatic survey of magnetic and electric fields.
- "In situ" measurements in order to characterise from an electromagnetic point of view some areas (automatic survey of the electromagnetic environment); Based on the field measurements in different areas, the induced fields and currents in the human body, as well as the SAR, were determined; The study of the interaction of the electromagnetic field with living matter; The study of biological signals modification for persons exposed to electromagnetic fields.
- Processing and analysis of biomedical signals.

Teaching courses: Electronic measurements; Electrical measurements; Measurement of electrical and non-electrical quantities.

Introducing of new courses: The electromagnetic protection of informatics systems (master's course); The survey of electromagnetic environment (master's course), Electromagnetic pollution (master's course in English); Measurement in ecology and biomedicine; Instrumentation for environmental quality and biomedicine.

Invited to teach newly introduced courses at: the Technical University of Moldavia in Chisinau, Republic of Moldova ("Measurement techniques in ecology and biomedicine" and "Electromagnetic compatibility"); the newly established Faculty of Medical Bioengineering at the University of Medicine and Pharmacy "Gr.T.Popa" Iasi, Romania ("Transducers and biosensors", "Systemic biometrology")

Name and address of employer
Type of business or sector
Dates
Occupation or position held
Main activities and responsibilities
Name and address of employer

„Gheorghe Asachi” Technical University of Iași, Faculty of Electrical Engineering, Bdv. D. Mangeron nr 23, Iași
Teaching and scientific research. Publications: 12 books (4 in International Publishing Houses); 150 journal papers and articles in conference vol. (45 ISI Web of Science and 60 in International Date Bases); 3 patents
1983 – 1990
Designer Engineer
Design of radio communication equipments for river and marine ships.
"Tehnoton" Iasi, Romania, "Design of professional equipment and special technologies" laboratory

Type of business or sector	Research and design of products before releasing. Publications: 1 journal paper; 1 article in conference volume
Education	
Dates	1990-1998
Qualification/ Diploma	Doctor Engineer
Main studied disciplines	PhD Thesis: "Research regarding the measurement of the interfering electromagnetic field"/ Proposing and experimental verification of electromagnetic field sensors, including E and H sensors; "in situ" measurements of electromagnetic fields – applications in electromagnetic compatibility and electromagnetic biocompatibility
Name of institution	„Gheorghe Asachi” Technical University of Iași
Dates	1978 – 1983
Qualification/ Diploma	Engineer. Area: Electrical. Specialization: Electronic and telecommunication
Main studied disciplines	Electronic circuits and devices; Signals, circuits and systems / signal processing and analysis; Modern technique of communication; Radio reception; Radio emission; Antennas / radio-communication
Name of institution	Polytechnic Institute Iasi, Faculty of Electrical Engineering, Section: Electronic and telecommunication
Personal skills and competences	
Language (mother tongue)	Romanian
Foreign languages	English and French (Independent user)
Organisational skills and competences	<p><u>Participation in obtaining and implementation</u> of over 25 scientific research projects.</p> <p><u>Member in:</u> <i>Council of the Faculty of Electrical Engineering</i>, TU Iasi (1996-2000; 2012-today); <i>Council of Electrical Measurements and Electrotechnical Materials Department</i>. (2004 – 2012), (2016-today).</p> <p><u>Work visits</u> to: University of Nottingham, UK (2010), University of Bristol, UK (2006), University of Rome "La Sapienza", Italy (2006), Polytechnic University of Turin (<i>Politecnico di Torino</i>), Italy (2005).</p> <p><u>Chair and editor of the Proceedings</u> of "International Workshop on Electromagnetic Compatibility and Engineering in Medicine and Biology ", Iași, October 2010 (First Edition), October 2012 (Second Edition); October 2014 (Third Edition); October 2016 (4th Edition).</p> <p><u>Guest Editor</u> of some special issues of the journal "Environmental Engineering and Management Journal" (No.4/2011, No.6/2013 and No.12/2016) with theme „Environmental concerns on electromagnetic compatibility and engineering in medicine and biology”.</p> <p><u>Member of the organizing committee</u> of: "IMEKO International Symposium", Iasi, September 2007 and 2017; "International Conference and Exposition on Electrical and Power Engineering (EPE 2012, EPE 2014 and EPE 2016), Iasi, October, 2012; October 2014 and October 2016.</p> <p><u>Member of program committee</u> of: E-Health and Bioengineering Conference EHB 2013 and EHB 2015 Iași; EHB 2017, Sinaia, 9th edition of IEEE International Symposium on Medical Measurement and Applications MeMeA 2014, Lisbon; the Workshop "Electromagnetic shielding in modern technology", 2010, Craiova</p> <p><u>Member of scientific societies:</u> IEEE Senior Member (Electromagnetic Compatibility, Engineering in Medicine and Biology, Instrumentation and Measurements, TC-13-Wireless & Telecommunications in Measurements), ACER, SETIS, SRPRNI, SIR.</p> <p><u>Member of International Jury</u> "International Exhibition of Inventions INVENTICA ", Iasi 2006-2017 and Member of International Jury "International Exhibition of Research, Invention and Technology Transfer - INVENTICA", Iasi 2008-2016</p> <p><u>Fulbright evaluator</u>, <u>Expert evaluator</u> CNCSIS and CEEX</p> <p><u>Member of the editorial staff</u> of the journal "Environmental Engineering and Management Journal" (2010 today).</p> <p><u>Member of the <i>Electrical Engineering Commission</i> at CNATDCU</u>, Bucharest, Romania (2017- today).</p>
Technical skills and competences	<p><u>Initiating or addressing new scientific fields and / or interdisciplinary:</u></p> <ul style="list-style-type: none"> - Survey of the electromagnetic environment (proposal of some measurement systems; "in situ" measurements for long-term survey of electromagnetic fields; detection, identification and characterisation of electromagnetic sources). - New materials and techniques for electromagnetic absorbers/shields (shielding of special buildings, proposal and characterisation of new materials with the view to be used at electromagnetic protection). - Biological and health effects of electromagnetic fields, the identification of biological signals modification for persons exposed to electromagnetic fields.
Additional information	<ul style="list-style-type: none"> - "Traian Vuia" Award of the Romanian Academy in 2001 for the treaty "Electronic measurements" (co-author) - Honorary Diploma and Jubilee Medal awarded in 1999 by "Gr. T. Popa" Medicine and Pharmacy University of Iasi at the celebration of 120 years of medical university education in Iasi. - "Honorary Citizenship" Title of Crăcăoani, Neamț province, 2008.