

PERSONAL INFORMATION

VĂȚĂU Doru



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Sex Male | Date of birth 01/01/1962 | Nationality Romanian

PERSONAL STATEMENT

Associate Professor, Doctor, Engineer
POLITEHNICA University Timisoara, Romania
Faculty of Electrical and Power Engineering
Power Systems Department

WORK EXPERIENCE

01/10/1986–01/10/1992

Research and development department manager

S.C. AEM S.A., Timisoara (Romania)

R&D activities concerning:

- Electric / Electronic Apparatus and Equipment;
- Industrial Automation and Control.

01/10/1992–Present

College / university teaching professional

POLITEHNICA University, Faculty of Electrical and Power Engineering, Timisoara (Romania)

Assoc.Prof.

Didactic, research and administrative activities in the field of:

- Electric / electronic Apparatus and Equipment;
- Materials for Electrical and Power Engineering;
- Impact of Power Facilities on Environment;
- Power Plants, Substations and Electrical Networks ;
- Renewable energy use in industry and buildings .

EDUCATION AND TRAINING

15/09/1981–15/07/1986

Bachelor Degree in Electric Engineering

EQF level 7

POLITEHNICA University, Faculty of Electrical and Power Engineering, Timisoara (Romania)

01/09/1990–17/01/1997

PhD in Electric Engineering

EQF level 8

POLITEHNICA University, Faculty of Electrical and Power Engineering, Timisoara (Romania)

Doctor Engineer

PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
French	C1	C1	C1	C1	C1
English	C1	C1	B1	B1	B1

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

- Communication skills**
- advising capability;
 - negociation and persuasion;
 - influencing others;

- Organisational / managerial skills**
- team working ability;
 - analytical thinking;
 - strategic perspective thinking;
 - building teams ability;
 - creativity;
 - adoption of decisions and delegation of tasks capacity;
 - focus on results;
 - searching and collecting information - making judgments / reasons - leadership and motivation.

Management Activities (Extract)

- 1990-1992 - Head of the workshop design / research " Apparatus for measuring the generation and regulation of electricity " at AEM S.A. Timisoara;
- 1998-present - Coordinator of the bilateral agreement with the University " Paul Sabatier " in Toulouse in the framework of Socrates - Erasmus agreement regarding the mobility of students and teaching staff;
- 2005-2007 - Director for the Grant A.U.F. 6301PS320 - "Système de formation continue par la recherche dans le domaine de la maintenance des installations électriques";
- 2005-2007 - Director for the Grant A.U.F. 6301PS426 on "La qualité de l'énergie électrique transferée entre l'Europe de l'Est et l'Europe de L'Ouest";
- 2007 -present - Coordinator of the bilateral agreement with the University of Technology and Economics in Budapest in the framework of Socrates - Erasmus agreement regarding the mobility of students and teaching staff;
- 2007 -present - Coordinator of the bilateral agreement with the University of Limoges - Limousin University Institute of Technology in the framework of Socrates - Erasmus agreement regarding the mobility of students and teaching staff;
- 2012 -present - Coordinator of the bilateral agreement with the University of Chemical Technology and Metallurgy in Sofia, in the framework of Socrates - Erasmus agreement regarding the mobility of students and teaching staff ;
- 2002-2009 - Executive Director of the Research Centre "Modern methods and techniques in the exploitation and protection of electric installations ";
- 2001-2010 - Marketing Director at PROTENERGO S.A.;
- 1997 - 1999 – Scientific Secretary of the Department of Power Engineering;
- 1999 – 2008 - Secretary of the Admission Electric Field (ET + ETC + AC);
- 2013 -present - Vice-Dean of the Faculty of Electrical and Power Engineering.

- Job-related skills**
- basic scientific research skills;
 - developing scientific articles;
 - management of research contracts;
 - inventions and technical innovations;
 - general use of computer;

- use multimedia tools for presenting information;
- skills in analysis , calculation and design of electrical systems with modular components using specific software;
- knowledge and application of measurement techniques and electromagnetic compatibility problems for electrical equipment;
- computer-aided design;
- designing and manufacturing equipment for electric power conversion of renewable energies and their modeling and simulation;
- knowledge and application of measurement techniques , testing, diagnosis and specific EMC power electronics and electric drive systems;
- skills in using computer technology and mathematical models for calculating , modeling, simulation and optimization of specific equipment energy conversion systems;
- use professional components for achieving real-time applications in autonomous systems , including IT infrastructure operation.

Professional Activity (Extract)

- July-December 1990 - Specialization in International Marketing at the Chamber of Commerce and Industry Timisoara;
- April-May 1998 - Documentary - specialization stage in the field of electrical test equipment and materials at the " Paul Sabatier " in Toulouse - France, under the coordination Prof.Bui Ai TEMPUS JEP 09 737 / 95 ;
- June 1998 - Documentary - specialization in " Environment and unconventional energy " under the IKARUS and financial support of the Soros Foundation;
- 1998-present - Visiting Professor at the University " Paul Sabatier " in Toulouse (average 2 wk . / Year).;
- 2004-present - Visiting Professor at the University of Technology , Chemistry and Metallurgy in Sofia (average 2 wk . / Year);
- 2010 - Participation in trainings under the " Quality Assurance in Higher Education in Romania in the European Context . Developing academic quality management system and institutional level . " POSDRU/2/1.2/S/1 agreement ;
- June 2011 - Further training (in the scientific and teaching) at the University " Paul Sabatier " in Toulouse , France, in the research project no. CE/MC/287/10 on "Environment power facilities impact and Materials used in electrical engineering " project funded by the University Agency of Francofony;
- 2010 - 2012 - Further training in the project " Doctoral School in support of research in the European context ", contract POSDRU/21/1 , 5/G/13798;
- 2010 - 2011 - Further training within the project " National network of training of teachers in vocational and technical education - CONCORD ", contract AMPOSDRU E 8325 / 29.10.2010 ID number 61397;
- 2011 - 2012 - Further training in the project " an extra chance : internships for students from the faculties of energy ", contract POSDRU/21/1, 5 / G / 62528;
- Research undertaken throughout my activities aimed at the appliances and electrical equipment (switchgear , protection and measurement) , the magneto-hydrodynamics , the materials used in electrical engineering and energy , the use of computers in electrical and power engineering , the environment power facilities impact and the power plants, substations and electrical networks;
- Current research they undertake concerns besides these areas , the possibility of artificial intelligence in the study of materials and electric equipment and the efficient use of energy in industry and buildings using renewable energy.

Computer skills

Good command for working in DOS, Windows, Office, programming languages like C, Pascal, Basic and technical software like: AutoCAD, SUCOSOF, FLUX 2D, 3D FLUX or similar products.

Other skills

- active social participation;
- communication, cooperation, establishment of teams and teamwork;
- understanding the nature of community and social involvement;
- assuming the roles and establishing relationships in a democratic society;
- assuming the duties and responsibilities.

ADDITIONAL INFORMATION

- Books: 12.
- Works developed and / or published: 103 (of which 14 ISI-indexed 18 other BDI).
- Grants and research contracts: 22 (of which 8 international research grants and 12 grant / contract director).
- Certificates of innovations: 9.

Member of the scientific and professional associations

- 2009- present - long-term expert Credit Agencies and Scholarship (the old name of the National Center for Scholarships Abroad) , on the field Electrical and Power Engineering;
- 2009- present - long-term expert (Bank Regional Experts Francophone University Agency , Office for Central and Eastern Europe , the expertise D 122 - Engineering) ;
- 2007 - Honorary Professor of the University of Chemical Technology and Metallurgy in Sofia ;
- 2009- present - Member CIGRE ;
- 2009- present - Member of IEEE ;
- 2009- present - Member of the Association for Multidisciplinary Research in Romania ;
- 2007 - present - Member of the Romanian Association of Marketing ;
- 2012 - present - Member of the Romanian Live Working Association ;
- 2013 - present - Member of the Society of Power Engineers in Romania ;
- 2012 - present - Member of the Research Center for Analysis and Optimization of Power Systems Regimes Politehnica University of Timisoara ;
- 2012 - present - Member of the Resource Center for Information and Documentation of the University Politehnica Timisoara;
- 2003 - 2012 - Member of the Board of the Department of Power Engineering ;
- 2011 - Risk Manager for the Faculty of Electrical and Power Engineering ;
- 2013 - present - Member of the Board of the Faculty of Electrical and Power Engineering

List of significant papers (extract)

- **Vatau Doru**, Muşuroi Sorin, Bărbulescu Constantin, Babescu Marius, PV systems modelling and optimal control, Revue Energy Conversion and Management, Volume 84, August 2014, pp. 448-456, ISSN 0196-8904.
- **Vatau Doru**, Andea Petru, Frigura Iliasa Flaviu Mihai, Surianu Flavius Dan, Kilyeni Stefan, Barbulescu Constantin, Overvoltage protection systems for low voltage and domestic electric consumers, Proceedings of the MELECON 2010 - 2010 15th IEEE Mediterranean Electrotechnical Conference, 25-28 Apr. 2010, Malta, pag. 1394-1397, ISBN 978-1-4244 -5794-6.
- **Vatau Doru**, Frigura Iliasa Flaviu Mihai, Rancov Sorin, High voltage substation electromagnetic field component measured values analysis. Sibiu Sud substation case study., Proceedings of the 12th International Conference on Environment and Electrical Engineering, Wroclaw, Poland, 18-25 May 2013, pp. 313-318, ISBN 978-1-4577-1829-8.
- **Vatau Doru**, Surianu Flavius Dan, Monitoring of the Power Quality on the Wholesale Power Market in Romania, Proceedings of the 9th International Conference on Electric Power Systems, High Voltages, Electric Machines, Genova, Italy, October 17-19, 2009, pp.59-64, ISBN: 978-960-474-130-4, ISSN: 1790-5117.
- Frigura Iliasa Flaviu Mihai, **Vatau Doru**, Vuc Gheorghe, Greconici Marian, Vartosu Adrian, Hydrogenerators Refurbishment within Romanian Power System, Proceedings of the 3rd IEEE International Symposium on Exploitation of Renewable Energy Sources, March 11-12, 2011, Subotica, Serbia, pag. 139-142, ISBN 978-1-4577-0098-9.
- **Vatau Doru**, Flaviu Mihai Frigura Iliasa, Musuroi Sorin, Barbulescu Constantin, On-line Control of a Power Process. Fuzzy-Logic Applications, Proceedings of the 8th International Conference on Power Systems and Power Technology, Santander, Cantabria, Spain, September 23-25, 2008, pp.277-280, ISBN: 978-960-474-006-2, ISSN: 1790-5117.

- **Vatau Doru**, Flaviu Mihai Frigura Iliasa, Musuroi Sorin, Barbulescu Constantin, A few aspects concerning the on-voltage working techniques applied at S.T.Timisoara, as a way of reducing all maintenance costs and to increase the availability of the power lines, Proceedings of the 8th International Conference on Power Systems and Power Technology, Santander, Cantabria, Spain, September 23-25, 2008, pp.34-49, ISBN: 978-960-474-006-2, ISSN: 1790-5117.
- Frigură Iliasa F.M., **Vatau D.**, Miheț Popa L.N., Bărbulescu C., Heat Dissipation Improvement for ZnO Based Varistors, Proceedings of the ICHQP 2010 - 14th International Conference on Harmonics and Quality of Power, 26-29 Sep. 2010, Bergamo, Italy, pp. 1-6, ISBN 978-1-4244-7245-1, SCOPUS.
- Surianu Flavius Dan, Andea Petru, **Vatau Doru**, Flaviu Mihai Frigura Iliasa, Barbulescu Constantin, Borlea Ioan, Measurements and Numerical Simulation for Induced Voltages on the 220 kV Double Circuit Aerial Power Line Having a Passive Circuit, Proceedings of IEEE-EUROCON 2007, the International Conference on "Computer as a Tool", Warsaw, Poland, september 9-12, 2007, ISBN 978-1-4244-0812-2, pag. 2432-2435, IEEE Catalog Number: 07EX1617C, Library of Congress: 2006937182, pag. 2432-2435.
- Mușuroi S., **Vatau D.**, Andea P., Șurianu F.D., Frigură Iliasa F.M., Bărbulescu C., Analysis of the Magnetic Losses from the Induction Machines Supplied by Inverters, Proceedings of IEEE-EUROCON 2007, the International Conference on "Computer as a Tool", Warsaw, Poland, september 9-12, 2007, ISBN 978-1-4244-0812-2, pp. 1434-1443, IEEE Catalog Number: 07EX1617C, Library of Congress: 2006937182, pp. 1434-1443.

List of significant grants (extract)

- Bui Ai, Ionescu Florin, Vasilievici Alexandru, Moldovan Lucian, Buta Adrian, **Vatau Doru**, Frigura Iliasa Flaviu Mihai, « Varistance haute puissance a base d'oxyde de zinc », Grant research, development and innovation no. 9093/1998 INCO-COPERNICUS HIPOVAR (1998 - 2000), 20000 Euro.
- **Vatau Doru**, Frigura Iliasa Flaviu Mihai, Surianu Flavius Dan, Cambronne Jean Pascal, Choylev Nicolas, Ursa Dana, Ilia Iliev, « Système de formation continue par la recherche dans le domaine de la maintenance des installations électriques », Grant research, development and innovation no. A.U.F.-6301PS320 (2005 - 2007), 14000 Euro.
- **Vatau Doru**, Frigura Iliasa Flaviu Mihai, Surianu Flavius Dan, Cambronne Jean Pascal, Choylev Nicolas, Ilia Iliev, « La qualité de l'énergie électrique transférée entre l'Europe de l'Est et l'Europe de l'Ouest », Grant research, development and innovation no. A.U.F.-6301PS426 (2005 - 2007), 15000 Euro.
- Cibu Buzac Raluca, Nagy Mariana, Pop Ana, Vasiu Radu, Stefea Petru, Farbas Nicolae, Frigura Iliasa Flaviu Mihai, **Vatau Doru**, Vladut Daniela, « Tehimpuls- Brokinnovoucher- Support for Cooperation and Innovation in Small and Medium Entreprises on the Romania-Hungary Region, Project financed by Phare CBC Romania-Hungary - Centru Regional de Inovare si Transfer Tehnologic », Grant research, development and innovation no. RO-2006/018-446.01.01.01.25, 220000 Euro.
- **Vatau Doru**, Hadjov Kliment, Ilia Iliev, Barbulescu Constantin, « Modélisation et caractérisation des propriétés thermiques dans des fluides contenant des nano inclusions anisotropes de forme différente », Grant research, development and innovation no. A.U.F.-6301PS521 (2008-2010), 20000 Euro.

Timisoara, 01.06.2014

Associate professor Doru VĂȚĂU, Ph.D.

