**Europass
Curriculum Vitae**

Personal information

First name(s) / Surname(s)	**Dumitru Cazacu**
Address(es)	Craiova, Romania
Telephone(s)	(+4)0248216460
Fax(es)	(+4)0348453200
E-mail	cazacu_dumitru@yahoo.com
Nationality	Romanian
Date of birth	27.01.1961
Gender	M

Work experience

Dates	2005 - present
Occupation or position held	**Assoc. Professor**
Main activities and responsibilities	Teaching : Numerical methods in electrical engineering Computational media for engineers Electromagnetic compatibility Electrical equipment Microwave systems (MSc) Dynamic simulation of the electromechanical systems (MSc) Adviser for MSc students Researches in computational electromagnetics.
Name and address of employer	University of Pitesti, Str. Tirgu din Vale nr.1 Pitesti Faculty for electronics, communications and computers, Department of electronics, computers and electrical engineering
Type of business or sector	Higher education and research
Dates	2000-2005
Occupation or position held	Lecturer
Main activities and responsibilities	Teaching : Numerical methods in electrical engineering Computational media for engineers Basics of electrical engineering Electromagnetic compatibility Researches in coupled problems: finite element - Simulink Adviser diploma projects

Name and address of employer	University of Pitesti, Str. Tirgu din Vale nr.1 Pitesti Faculty for electronics, communications and computers, Department of electronics, computers and electrical engineering
Type of business or sector	Higher education and research
Dates	1997 – 2000
Occupation or position held	Application engineer (coll.)
Main activities and responsibilities	Finite element analysis of electromagnetic devices with Cosmos software
Name and address of employer	IniCad Craiova, Romania (Structural Research and Analysis Corporation USA representative for Romania).
Type of business or sector	Applied researches
Dates	1996 – 1997
Occupation or position held	Application engineer
Main activities and responsibilities	Finite element analysis of electromagnetic devices with Ansys/Emag software
Name and address of employer	Institute for system analysis INAS Craiova (Ansys Inc., Houston, USA, representative for Romania).
Type of business or sector	Applied researches
Dates	1994-1996
Occupation or position held	Lecturer
Main activities and responsibilities	Numerical methods, Basics of computers, Introduction in parallel computing
Name and address of employer	Institute for computer science and knowledge engineering INTARF Craiova, Faculty for artificial intelligence
Type of business or sector	Higher education and research
Dates	1985-1994
Occupation or position held	Software application engineer
Main activities and responsibilities	Developing software for multiprocessors systems for railways and urban vehicles
Name and address of employer	Research, Development and Testing National Institute for electrical engineering ICMET Craiova, Romania.
Type of business or sector	Applied researches

Education and training

Dates	1994 - 2000
Title of qualification awarded	**Ph.D., electrical engineering**
Principal subjects/occupational skills covered	Electromagnetic field theory (microwaves), numerical methods for em field computation and super conductibility. Title of the Ph.D.thesis: Contribution to the study and computation of the electromagnetic field in microstrip and strip planar transmission lines. Contributions on the numerical modeling and simulations with finite element method and boundary element method of the microstrip and strip planar transmission lines, including superconductive case. The thesis advisor : Professor Silviu Puscasu, Electrical engineering department , Faculty for electrical engienering,University of Craiova.
Name and type of organisation providing education and training	University of Craiova.
Level in national or international classification	ISCED 6
Dates	1980 – 1985
Title of qualification awarded	Engineer
Principal subjects/occupational skills covered	Main topics :electric machines, electrical apparatus, electric and electronic measurements, electric drive systems, ,applied electrical energy , computer programming (Fortran si Basic), machines with numeric control.
Name and type of organisation providing education and training	Faculty for electrical engienering, Craiova

Level in national or international classification	ISCED 5
Dates	1975-1979
Title of qualification awarded	Baccalaureate
Principal subjects/occupational skills covered	General education: mathematics, physics, romanian language and literature, history, geography, philosophy, technical topics, English, German and Latin.
Name and type of organisation providing education and training	„Fratii Buzesti" highschool, Craiova
Level in national or international classification	ISCED 4

Personal skills and competences

Mother tongue(s)	**Specify mother tongue Romanian**

Other language(s) English , French, German

Self-assessment

European level (*)

	Understanding				Speaking				Writing	
	Listening		Reading		Spoken interaction		Spoken production			
English	C1	Advanced	C1	Advanced	C1	Advanced	C1	Advanced	C1	Advanced
French	B1	Medium	B1	Medium	A2	Basics	A2	Basics	A2	Basics
German	A2	Basics	A2	Basics	A2	Basics	A2	Basics	A2	Basics

(*) Common European Framework of Reference for Languages

Social skills and competences	Good communications skills. Experience in international partnership at national and international level (France and Austria).Independent thinking. Member of IEEE Romania EMC Chapter: Association for Electromagnetic Compatibility ACER Craiova. Romania.

Organisational skills and competences	**Member in the Scientific Boards**

- the 4th Intl. Conf. Technical and Physical problems in power engineering TPE 2008, 4-6 Sept.2008, Pitesti, Romania.
- the 1st WSEAS Conf. on finite difference, finite element, finite volume, and boundary element F-and-B'08, 11-13 Sept.2008, Malta.
- the 3rd WSEAS Intl.Conf. on finite difference, finite element, finite volume, and boundary element F-and-B'10, University Politechnica, Bucharest, Romania, April, 20-22, 2010.
- Intl.Conf.of the Institute for environment, engineering, economics and applied mathematics (IEEEAM), Mathematical models for engineering science (MMES), Paris, France, December 2-4, 2012 (in collaboration with the WSEAS).
- the 5th WSEAS Intl.Conf. On finite difference, finite element, finite volume, and boundary element F-and-B'12, Prague, Czech Republic, September 24-26, 2012.

Technical skills and competences	- Experience in mathematical modeling
	- Ability to use numerical methods in electrical engineering
	- Modeling and simulation of electromechanical systems using finite element software of the :
	    - microstrip and strip planar transmission lines
	    - interaction between the cellular phones radiation and models of the human heads
	    - electromagnetic shielding
	-Coupled problems: finite element-Simulink, electromagnetic field - electric circuits, electro - thermal, magneto structural
	-Modeling the dynamics of electromechanical systems
	
	Plenary speaker
	
	1. Finite element modeling of the absorption in the human head of the electromagnetic field radiated by a mobile phone antenna, The 9th WSEAS Int. Conference on mathematical methods and computational techniques in electrical engineering (MMACTEE'07), Arcachon, France, Oct.13-15, France, 2007. http://www.wseas.us/reports/2007/france/index.html
	2.Modelling and solving scientific and engineering problems with Comsol Multiphysics, the 4th Intl. Conf. Technical and Physical problems in power engineering TPE 2008, 4- 6 Sept.2008, Pitesti Romania. http://www.iotpe.com/ICTPE/ICTPE-2008/ConferenceProgram.html
	3.Experimental and numerical aspects concerning the electromagnetic shielding in the microwaves range, The 1st Intl.Conference Manufacturing engineering, quality and production systems (meqaps'09),, Transilvania University of Brasov, Romania, September 24-26, 2009 http://www.wseas.us/conferences/2009/brasov/meqaps/
	
	International stages
	
	1.5 Mai 2002 – 12 .05. 2003 Postdoc stage http://www.lias-lab.fr/members/dumitricazacu
	Ecole Nationale Supérieure d'Ingénieurs de Poitiers ESIP, Laboratoire d'Automatique et d'Informatique Industrielle LAII, University of Poitiers.
	2.Tutorial element finit Aachen RWTH, Germany, October 2003
	3. Erasmus Stage, Universitary Institute for Technology, IUT Angouleme, France, Sept. 2004
	4. Transnational Access RISC-Linz Research Institute for symbolic computation Johannes Kepler University 7-13 July 2008. Applications of the symbolic computation to 1D and 2D finite element electromagnetic field problems.
	http://www.risc.jku.at/projects/science/access/
	5. Summer school on symbolic computation Transnational Access at RISC-Linz, Austria Research Institute for symbolic computation Johannes Kepler University 28.06.09-11 July 2009. 4th RISC/SCIEnce Training School in Symbolic Computation.

Computer skills and competences	Matlab/Simulink (S-functions), Mathematica, LabView, C. Finite element software: Comsol, Flux2D, Quickfield, Ansys/EM, Cosmos.
Artistic skills and competences	Guitar
Other skills and competences	
Driving licence	B

Additional information	**Courses published in Publishing Houses recognized by CNCSIS**

Steady state electromagnetic field, University of Pitesti Publishing House, ISBN 973-690-306-0 2004.
Fundamentals of electrical engineering, Sitech Publishing House, Control engineering series, ISBN 973-746-290-9, Craiova, 2006, 2007, 2008.
Numerical methods in electrical engineering, Sitech Publishing House, Control engineering series ISBN 978-606-530-143-6

Chapters in books published in International Publishing House

"Finite element method in electromagnetism" in Nikos Mastorakis, Olga Martin "Finite element method – theory and advanced applications", pp. 117-127, published by WSEAS Press, http://www.wseas.org, ISBN 978-960-8457-86-3, ISSN 1790-5117 June 2007

Selected papers

1.D.Cazacu, G.Champenois, A.Launay, "Combined simulation of a salient pole alternator exciter", **Electromotion (IET)- INSPEC**, from The 5th International Symposium on Advanced Electromechanical Motion Systems, Marrakech, 2003, Marocco, vol.10, num.3, pp.301-305.
2.D.Cazacu, "On the dynamic simulation of the electromecanical systems described by PDEs", Acta Electrotehnica, DOAJ – Directory of Open Access Journals, Lund University Libraries, Sweden;Technical University of Cluj-Napoca, Romania, vol.46 nr.3, pp.130-134, 2005.
3.F.Laza, **D.Cazacu**, G.Champenois, M.M.Radulescu, "Finite element analysis of a small flux-reversal doubly-salient permanent magnet motor", The 6th International Symposium on electric and magnetic fields,Procc. ISSN 2030-5451, pp.179-182, Aachen, Germany, 6-9 October, 2003.
4.D.Cazacu, G.Champenois, A.Launay, "Salient pole alternator exciter modelling using finite element and Simulink/S-functions", the 6th International Symposium on electric and magnetic fields,Procc.ISSN 2030-5451, pp.361-364, Aachen, Germany, 6-9 October, 2003.
5.D.Cazacu, S.Ionita, S.Parlac, The evaluation of the PCB's behavior under the mechanical stress, the 30th International Spring Seminar on electronics Technology ISSE 2007, CD, **IEEE Catalog Number** :07EX1780C, Procc.ISBN:1-4244-1218-8, Library of Congress, 2007924573,1-4244-1218-8/07, Technical University Cluj-Napoca, Romania, pp.171-176, 9-13 Mai, 2007.(**IEEE Xplore**)
6. D.Cazacu, C.Stanescu**,** A.Petrisor, „Comparative Assesment of the mobile phones'EMF absorption between between adults and children head models", WSEAS Mathematical Methods and Computational Techniques in Research and Education, pp.1-5, 13-15 Oct., 2007, Arcachon, France. **(Procc.ISI)**
7.D.Cazacu, C.Stanescu, I.Popa, "Computation of the reflection coefficient for multilayer radio absorbing materials in $\lambda / 4$. ", The 8th WSEAS Intl. Conference on Systems Theory and Scientific Computation (ISTASC'08), Rhodes Island, Greece, pp.166-171, August, 20-22, 2008.(**Procc.ISI**).
8. D.Cazacu, C.Stanescu, "Finite element models of a transmission line for a plane electromagnetic wave in a shielding material", The 1st WSEAS International Conf. on Finite differences, finite elements, finite volumes, Boundary elements, (f-and-b'08) Malta,pp.117-121, September 11-13, 2008.(**Procc.ISI**).
9.D.Cazacu,C.Stanescu, „Experimental and numerical aspects concerning the electromagnetic shielding materials", The 4th International Conference on Technical and Physical Problems of power engineering University of Pitesti, pp.150-156, 4-6 September, Pitesti, Romania, 2008.
10.D. Cazacu, I.Popa, M.Iordache, Finite Element Numerical Experiments On The Absorption Of The EMF Radiation In 3D Human Head Models, International Spring Seminar on electronics Technology ISSE 2009,May 13-17 2009, IEEE CPMT, Brno **(IEEE Xplore).**
11.D.Cazacu, E.Lefter, „Theoretical and numerical aspects concerning magneto static shielding", Procc.of the 7th International Symposium Advanced Topics in electrical engineering ATEE 2011,UPB Bucharest, pp.299-304, May , 12-14, 2011.**(IEEE Xplore).**
12.D.Cazacu,C.Castravete**,** Efficiency Evaluation via Finite Element Method of 3D Magnetostatic Shields using Different Types of Magnetic Potentials, the 2012 IEEE 18th International Symposium for Design and Technology in Electronic Packaging (SIITME 2012), pp.25-30, Print ISBN 978-1-4673-4575-0, October 25th–28th, Alba Iulia, Romania, 2012.**(IEEE Xplore).**