Europass Curriculum Vitae

Personal information

First name / Surname	BAROTE Luminita
Work Address	1 Politehnicii, room NI3, 500024, Brasov, Romania
Telephone	+40 268 474718
E-mail	luminita.barote@unitbv.ro ; barote101@yahoo.com
Nationality	Romanian
Date of birth	1982/11/17
Employment/ Occupational field	Transilvania University of Brasov Department of Electrical Engineering and Applied Physics Research centre: Advanced Electrical Systems

Work experience

Dates	Feb. 2015-Onwards
Occupation or position held	Associate Professor
Main activities and responsibilities	- Teaching: Electrotechnics and Electrical Machines, Energy Storage Systems, Wind Turbines. - Research interest: Renewable energy sources and energy storage systems used in distributed generation applications. - Other: Students guidance, administrative responsibilities.
Name and address of employer	Transilvania University of Brasov, 29 Eroilor, Brasov, 500036, ROMANIA
Type of business or sector	Academic and research
Dates	Oct. 2011 – Jan. 2015
Occupation or position held	Academic Lecturer
Main activities and responsibilities	- Teaching: Electrotechnics and Electrical Machines, Energy Storage Systems, Wind Turbines. - Research interest: Renewable energy sources and energy storage systems used in distributed generation applications. - Other: Students guidance, administrative responsibilities.
Name and address of employer	Transilvania University of Brasov, 29 Eroilor, Brasov, 500036, ROMANIA
Type of business or sector	Academic and research
Dates	June 2010 – May 2013
Occupation or position held	Post-doctoral Researcher
Main activities and responsibilities	- Research theme: Electrical Energy Storage used in a Smart Micro-grid - Results dissemiantions: writing scientific papers in journals and conferences; - Laboratory work using equipmenst and research infrastructure. - Monthly activity reports.
Name and address of employer	Transilvania University of Brasov, 29 Eroilor, Brasov, 500036, ROMANIA
Type of business or sector	Research

Education and training

Dates	Oct. 2005 – Oct. 2009
Title of qualification awarded	PhD Diploma in Electrical Engineering
Principal subjects/occupational skills covered	- Small power wind turbines and distributed generation systems - Modeling and control of renewable energy generators;
Name and type of organisation providing education and training	Transilvania University of Brasov Faculty of Electrical Engineering and Computers Science
Level in national or international classification	ISCDE8
Dates	2005-2007
Title of qualification awarded	Master Diploma in Electrical Engineering
Principal subjects/occupational skills covered	Modeling of a small wind turbine operating in autonomous mode
Name and type of organisation providing education and training	Transilvania University of Brasov Faculty of Electrical Engineering and Computers Science
Level in national or international classification	ISCDE7
Dates	2000-2005
Title of qualification awarded	MSc Diploma in Electrical Engineering
Principal subjects/occupational skills covered	Electrical engineering, power electronics, electrical machines.
Name and type of organisation providing education and training	Transilvania University of Brasov Faculty of Electrical Engineering and Computers Science
Level in national or international classification	ISCDE6

Internships and other trainings

- 2011 – Aalborg University, 4-month internship within the post-doctoral research project;
- 2007-2008 – Aalborg University, 8-month internship within the doctoral research project;
- 2005 – Technical University of Heraklion, 3 – month study for diploma project entitled *Electrical installation design for a small wind turbine*.

Personal skills and competences

Mother tongue: Romanian

Other language(s): English

Self-assessment	Understanding				Speaking				Writing	
European level (*)	Listening		Reading		Spoken interaction		Spoken production			
	B1	Independent user	B1	Independent user	B1	Independent user	B1	Independent user	B1	Independent user

(*) Common European Framework of Reference for Languages

Social skills and competences	Sociable, disciplined, honest, perseverant, accustomed to working in team, participation at international conferences with oral presentations;
Technical skills and competences	- Electrotehnics and Electrical Machines, Renewable Energy Sources, Energy Storage. - Practical abilities in laboratory; - Modeling and analysis of electrical systems with Matlab/Simulink software;
Computer skills and competences	- Competent with most MS Office applications: Word, Excel, PowerPoint, Visio. - Simulation and control software: Matlab/Simulink, Homer
Driving licence	Category B.

Additional information: Publications

Books:

[1]. C. Marinescu, I. Serban, L. Clotea, D. Marinescu, C.P. Ion, M. Georgescu, **L. Barote**, A. Forcos, Hybrid Grids with Renewable Energy Sources – Modern Evolutions, Transilvania University Press, 2011.
[2]. C. Marinescu, M. Georgescu, L. Clotea, C.P. Ion, I. Serban, **L. Barote**, D.M. Valcan, Renewable Energy Sources – Current Approaches, Transilvania University Press, 2009.
[3]. **L. Barote**, Electrical energy storage in distributed generation systems, Transilvania University Press, 2015.

Selected recent journal papers:

[1]. **L. Barote**, C. Marinescu, *Software Method for Harmonic Content Evaluation of Grid Connected Converters from Distributed Power Generation Systems*, Journal of Energy, vol. 66, pp. 401-412, 2014 – FI: 4.159, SRI: 2.327.
[2]. **L. Barote**, C. Marinescu, M. N. Cirstea, *Control Structure for Single Phase Stand Alone Wind Based Energy Sources*, IEEE Transaction on Industrial Electronics, vol. 60, no. 2, pp. 764-772, 2013 – FI: 6.5, SRI: 3.908.
[3]. **L. Barote**, C. Marinescu, *Modeling and Operational Testing of an Isolated Variable Speed PMSG Wind Turbine with Battery Energy Storage*, Advances in Electrical and Computer Engineering, vol. 12, no. 2, pp. 81–88, Suceava, 2012 – FI: 0.642, SRI: 0.215.
[4]. **L. Barote**, C. Marinescu, I. Serban, *Energy Storage for a Stand-Alone Wind Energy Conversion System*, Rev. Roum. Sci. Techn. – Électrotechn. Et Énerg., vol. 55, no. 3, pp. 235–242, Bucharest, 2010 – FI: 0.368, SRI: 0.019.

Selected recent papers presented at international conferences:

[1]. **L. Barote**, C. Marinescu, *Reactive power influence on power quality for grid connected converter in GPGS application*, Proccedings of the IEEE International Conference on Optimization of Electrical and Electronic Equipments, OPTIM 2014, Brasov, Romania, 2014.
[2]. **L. Barote**, C. Marinescu, R. Teodorescu, *Current controller considering harmonics compensation for grid connected converter in DPGS applications*, Proccedings of the IEEE International Conference on Optimization of Electrical and Electronic Equipments, OPTIM 2012, 24-26 May, Brasov, Romania, 2012, pp. 899-905.
[3]. **L. Barote**, C. Marinescu, *Renewable Hybrid System with Battery Storage for Safe Loads Supply*, Proccedings of the IEEE International Conference – PowerTech 2011, 19 – 23 June 2011, Trondheim, Norway, pp. 1-5.
[4]. **L. Barote**, C. Marinescu, *Storage Analysis for Stand-Alone Wind Energy Applications*, Proccedings of the IEEE International Conference on Optimization of Electrical and Electronic Equipments, OPTIM 2010, ISSN 1842-0133, ISBN 978-973-131-080-0, 20-22 May, Brasov, Romania, 2010, pp. 1180-1185.
[5]. **L. Barote**, R. Weissbach, R. Teodorescu, C. Marinescu, M. Cirstea, *Stand-Alone Wind System with Vanadium Redox Battery Energy Storage,* Proccedings of the IEEE International Conference on Optimization of Electrical and Electronic Equipments, OPTIM'08, ISSN 1842-0133, ISBN, 22-24 May, Brasov, Romania, 2008, pp. 407 – 412.

Scopus profile: http://www.scopus.com/authid/detail.url?authorId=25031054200
Google Scholar profile: https://scholar.google.ro/citations?user=QZGf9zQAAAAJ&hl=en

Patent: **L. Barote**, C. Marinescu, METHOD AND SOFTWARE FOR EVALUATING THE CONTENT OF HARMONICS PRODUCED BY CONVERTERS, RO129131-A0, patent pending;

Research grants:
- CNCSIS-TD 144/2007: "Small power wind turbines and distributed generation systems" – project director;
- FP6, CRISTAL 038406/DG TREN, 2007-2009, "Control of renewable integrated systems targeting advanced landmarks" – project member;
- CNCSIS-134/2007-2010, „Renewable Energy Sources and their Integration in Smart Hybrid Grids" – project member;
- Partnerships national competition project, D3 21062/2007-2010, „Hybrid Hydro-Wind Energy Structure" – project member;
- Partnerships National Competition Project, D1 110004/2007-2010, "Intelligent distributed system for improving the efficiency of Hydroelectric plants" – project member;

Awards: Rewarding research results, by the national research agency UEFISCDI, 2012, 2014;
Prize for excellent research activity, within the *Transilvania* University awards, 2013;

Scientific reviewer: IEEE Trans. on Industrial Electronics, Energy, Energy Conversion and Management, IET Power Electronics.

Membership in scientific/professional societies: IEEE member, from 2007.