



Europass Curriculum Vitae

Personal information

First name(s) / Surname(s) Nicu BIZON
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E-mail(s) nicubizon@yahoo.com, nicu.bizon@upit.ro
Nationality Romanian
Date of birth 14.02.61
Gender M

Desired employment / Occupational field **Electronics Engineering**

Work experience

Dates 2012 – present
Occupation or position held Chair with Technical Activities
Main activities and responsibilities Management of Technical Activities of IEEE Romania Section
Name and address of employer IEEE Romania Section

Dates 2008 – 2011
Occupation or position held Associate head of Electronics and Computers department
Main activities and responsibilities Administration and Educational Management
Name and address of employer UNIVERSITATEA DIN PITEȘTI
110040 Pitesti, Str. Targu din Vale, nr.1, Arges, Romania

Dates 2008 – present
Occupation or position held Executive manager of research centre: Modelling and Simulation of Processes and Systems
Main activities and responsibilities Research Management
Name and address of employer UNIVERSITATEA DIN PITEȘTI
110040 Pitesti, Str. Targu din Vale, nr.1, Arges, Romania

Dates 2000 – 2004
Occupation or position held Manager of research department of University of Pitesti
Main activities and responsibilities Administration and Research Management
Name and address of employer UNIVERSITATEA DIN PITEȘTI
110040 Pitesti, Str. Targu din Vale, nr.1, Arges, Romania

Dates 2000 – 2004
Occupation or position held General manager of "Muntenia" Training Center
Main activities and responsibilities Administration and Educational Management
Name and address of employer UNIVERSITATEA DIN PITEȘTI
110040 Pitesti, Str. Targu din Vale, nr.1, Arges, Romania

Dates 2000 – present
Occupation or position held professor
Main activities and responsibilities Research and education
Name and address of employer UNIVERSITATEA DIN PITEȘTI
110040 Pitesti, Str. Targu din Vale, nr.1, Arges, Romania

Dates	1999 - 2000
Occupation or position held	General manager of Institution Building Project: Organizations – Companies – Universities relations Centre
Main activities and responsibilities	Administration and Educational Management
Name and address of employer	UNIVERSITATEA DIN PITESTI 110040 Pitesti, Str. Targu din Vale, nr.1, Arges, Romania
Dates	1998-1999
Occupation or position held	Executive Manager of the Center for Scientific Excellence "Automotive Engineering"
Main activities and responsibilities	Research Management
Name and address of employer	UNIVERSITATEA DIN PITESTI 110040 Pitesti Str. Targu din Vale, nr.1, Arges, Romania
Dates	1998-present
Occupation or position held	Head of research team "Applied Electronics and Computer Science" from the Department of Electronics and Computer
Main activities and responsibilities	Research
Name and address of employer	UNIVERSITATEA DIN PITESTI 110040 Pitesti, Str. Targu din Vale, nr.1, Arges, Romania
Dates	1997 – 2000
Occupation or position held	Associate professor
Main activities and responsibilities	Research and education
Name and address of employer	UNIVERSITATEA DIN PITESTI 110040 Pitesti, Str. Targu din Vale, nr.1, Arges, Romania
Dates	1992 - 1997
Occupation or position held	Lecturer
Main activities and responsibilities	Research and education
Name and address of employer	UNIVERSITATEA DIN PITESTI 110040 Pitesti, Str. Targu din Vale, nr.1, Arges, Romania
Dates	1989-1992
Occupation or position held	University assistant
Main activities and responsibilities	Research and education
Name and address of employer	UNIVERSITATEA DIN PITESTI 110040 Pitesti, Str. Targu din Vale, nr.1, Arges, Romania
Dates	1986 - 1989
Occupation or position held	engineer
Main activities and responsibilities	Research and maintenance
Name and address of employer	Automobile Dacia Renault

Education and training

Dates	September 15, 1992 – July 30, 1996
Title of qualification awarded	PhD
Principal subjects / occupational skills covered	Electrical Engineering / Automatic Systems
Name and type of organisation providing education and training	Polytechnic University of Bucharest, Faculty of
Dates	October 01, 1980 – October,30, 1985
Title of qualification awarded	Bachelor of Science
Principal subjects / occupational skills covered	Electrical Engineering / Electronics, Communication
Name and type of organisation providing education and training	Polytechnic University of Bucharest, Faculty of Electronics, Communication and IT

Dates	September 15, 1976 – July 15, 1980
Title of qualification awarded	Lyceum diploma
Name and type of organisation providing education and training	Dinicu Golescu Lyceum
Dates	September 2-5, 2007
Title of qualification awarded	professional certificate
Principal subjects / occupational skills covered	Power Electronics and Control for Renewable Energy Systems
Name and type of organisation providing education and training	University of Aalborg, Danemarca
Dates	October 16-18, 2004
Title of qualification awarded	professional certificate
Principal subjects / occupational skills covered	World Affairs / marketing and entrepreneurial
Name and type of organisation providing education and training	Junior Achievement Romania
Dates	May 13-14, 2001
Title of qualification awarded	professional certificate
Principal subjects / occupational skills covered	Development and learning in the enterprise
Name and type of organisation providing education and training	CESI France
Dates	June 6-11, 2001
Title of qualification awarded	professional certificate
Principal subjects / occupational skills covered	Economic performance and management mechanisms
Name and type of organisation providing education and training	CESI France
Dates	August 1-30, 2001
Title of qualification awarded	professional certificate
Principal subjects / occupational skills covered	Intensive English course
Name and type of organisation providing education and training	Odense Technical College
Dates	August 5-25, 2001
Title of qualification awarded	professional certificate
Principal subjects / occupational skills covered	Training of trainers in ICT
Name and type of organisation providing education and training	Odense Technical College
Dates	12 to 14 July 2001
Title of qualification awarded	professional certificate
Principal subjects / occupational skills covered	Continue training evaluation techniques
Name and type of organisation providing education and training	Academy of Lille, Greta Cambresis, France
Dates	5 to 11 June 2000 and 5 to 11 February 2001
Title of qualification awarded	professional certificate
Principal subjects / occupational skills covered	European Management

Name and type of organisation providing education and training | TRC - Patras University and CESI / Paris - Ile de France, respectively

Dates | March 27-April 1, 2000, April 17-21, 2000, and July 2-6, 2001:

Title of qualification awarded | professional certificate

Principal subjects / occupational skills covered | Information and Communication Technology

Name and type of organisation providing education and training | Loom - Consultation's Information Service - Lisbon, Leeds Metropolitan University and the Loom - Consultation's Information Service - Lisbon, respectively

Dates | 13 to 17 June 2000, 25 to 29 October 2000, and 21 to 26 May 2001

Title of qualification awarded | professional certificate

Principal subjects / occupational skills covered | Languages of the European Communities

Name and type of organisation providing education and training | Odense Technical College, Denmark, "Mountaigne IUT Michel de Bordeaux 3 University and "Nice Sophia Antipolis" University, France, respectively

Dates | March 6 to 12, and 13 to 19 September, 2000

Title of qualification awarded | professional certificate

Principal subjects / occupational skills covered | European Common Law, trainer from

Name and type of organisation providing education and training | Univ. Polytechnic of Catalunya

Dates | 10 to 14 July 1999

Title of qualification awarded | professional certificate

Principal subjects / occupational skills covered | Training Evaluation / Evaluation of continuous training

Name and type of organisation providing education and training | National School of Arts and Industry of Strasbourg

Dates | 4 to 10 June 1998

Title of qualification awarded | professional certificate

Principal subjects / occupational skills covered | Magnetic materials and superconducting materials - trainer from

Name and type of organisation providing education and training | Institute of Materials Science, Barcelona

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C1	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user
B1	Independent user	B1	Independent user	B1	Independent user	B1	Independent user	B1	Independent user
A2	Basic User	A2	Basic User	A2	Basic User	A2	Basic User	A2	Basic User

(*) [Common European Framework of Reference \(CEF\) level](#)

Social skills and competences | I'm a sociable, communicative, reliable, conscientious, responsible and very creative person

Computer skills and competences | ECDL professional certificate / Matlab, Spice, Labview

Driving licence(s) | B category

Annexes

I. Short CV
 II. Scientific visibility and prestige
 II.1. Main research results.
 a) ID Founding Table:
 b) Research expeditions that the applicant has led
 II.2. The visibility of the scientific contributions
 III. List of publication (all years Track-Record / 10-Year Track-Record, 2001-2011):
 a) N. Bizon, PhD thesis

- b) Books and chapters in books
 - b1) Books published in International Publishing House (2 in the last two years)
 - b2) Chapters in books published in International Publishing House (1 in the last two years)
 - b3) Books published in Publishing House recognized by CNCSIS*
 - *CNCSIS (National Council of Scientific Research in Higher Education)
 - b31) Books on research area (in English language) (2 in the last six years)
 - b32) Books on research area (in Romanian language) (7/4 in the last six years)
 - b23) Books for students (14/1 in the last six years)
 - c) Articles / Studies published in journals
 - c1) Papers in ISI Journals (10 in the last 2 years)
 - c2) Papers in indexed Journals (2 in the last four years)
 - c3) Papers in Journals (indexed by *CNCSIS as +B & B) (4 in the last four years)
 - d) Articles / Studies published in conferences
 - d1) Articles / Studies published in ISI Web of Knowledge (15/13 in the last six years)
 - d2) Papers in indexed Data Base (also reconaized by *CNCSIS) (2/1 in the last ten years)
 - d3) Papers in Proceedings of Conferences/Symposiums (41 in the last ten years)
 - d31) organized abroad (12 in last ten years)
 - d31) organized in Romania (29 in last ten years)
 - e) Patents: 0
 - f) R & D projects and innovation
 - f1) International projects on Development - Institution Building (2 in last ten years)
 - f2) National research projects
 - f21) Manager of the research team (2 in last five years)
 - f22) Member in the research team (9 in last ten years)
 - g) other work and scientific contributions
 - g1) Papers in Journals of the Romanian Academy (2 in the last ten years)
 - g2) Papers in international Journals (2 in the last five years)
 - g3) Papers in national journals or periodics (13 / 9 in the last ten years)
 - g4) Other research projects
- IV. Other data:
 Hirsch Index: 3;
 V. Selection of 10 relevant publications
 VI. The autonomy and visibility of the scientific activity.

I. Short CV

Nicu BIZON received a five-year degree in electronic engineering from the University "Polytechnic" of Bucharest, Romania, in 1986, and the PhD degree in Automatic Systems and Control from the same university, in 1996. Firstly, he was in hardware design with the Dacia Renault SA, Romania. Currently, he is Professor with the University of Pitesti, Romania, being dean of the Faculty of Electronics, Communication and Computers from 2012.

Previously, he was the general manager of the "Muntenia" Training Centre (CFM) during 2000-2004. He participated in training activities for trainers, obtaining 18 professional certificates in science, engineering, management, EU law, and EU languages. He remain until now a lecturer for this Training Centre, being implied in e-Learning courses, too

Also, he was head of University Research Department (2004-2008) and Executive Director of the Research Centre "Modeling and simulation processes and systems" (2008-2012), being manager of two project in field of Green and Hydrogen Energy, and team members in other four projects in the same field.

He is editor of six books in field of Green Energy: Advances in Energy Research: Energy and Power Engineering Advances in Energy Research: Distributed Generation systems integrating Renewable Energy Resources, Optimized Systems for Green Power Conversion, Fundamentals of Electromagnetic Compatibility: Theory and Practice, Modeling of Inverter Systems supplied by Fuel Cells, Power Converters for Energy Generation Systems, published by Nova Science Publishers, Inc., USA (2), MatrixROM Publishing house, Bucharest, Romania (2), and University of Pitesti Publishing house (2). His current research interests include the broad area of nonlinear systems, on both dynamics and control applied in the Green Energy field. He was authored or co-authored of several papers (over to 100) in journals (ISI web of knowledge or data base indexed) or international conferences proceedings.

The Faculty of Electronics, Communication and Computers has four programs certified: Electromechanics, Applied Electronics, Computers, and Networks and Software for Communication. He, the teachers and students were involved in various EU programs.

He has expertise in field of renewable energy, being evaluator of Research Projects for FP7 Programme , EVAL-INCO Programme, EACI Programme, NSRF 2007-2013 (Greece), CNCSIS Ideas and ANCS PN II Programme (Romania).

a. Administrative functions (University of Pitesti – UPIT, Faculty of Electronics, Communication and Computers - FECC) :

Dean of Faculty of Electronics, Communication and Computer: 2012-prezent

Deputy Head of Electronics and Computer Science Department: 2008-prezent

General Manager of "Muntenia" Training Centre (CFM): 2000-2004;

Manager of the Dept. of Relations Org. – Companies – Universities (DROCU): 1999-2000;

1999: Exec. Manager of the Centre for Scientific Excellence "Automotive Engineering" (UPIT);

1998-now: Head of research team "Applied Electronics" (UPIT -FECC) ;
 2004-2008: Head of university Research Department (UPIT);
 2008-now: Executive Manager of the research centre "Modeling and simulation of processes and systems" (UPIT -FECC) ;

b. Education / Professional Training:

1976 - 1980: High School "Dinicu Golescu" from Campulung Muscel;
 1981-1986: Faculty of Electronics and Telecom. – Univ. "Polytechnic" Bucharest (UPB)
 1992-1996: PhD in Automatic Systems – UPB;

18 professional certificates in science, engineering, management, law and European language

c. Career History:

1986 - 1989 : Engineer at Dacia - Renault Group;
 1989 – 1993: University Assistant (UPIT - FECC) ;
 1993 - 1997 : Lecturer (UPIT -FECC) ;
 1997 – 2000 : Associate Professor (UPIT - FECC) ;
 2000 – now: Professor (UPIT -FECC) ;

d. Hirsch Index: 3 (2012)

e. Total number of citations: 31;

f. <http://www.researcherid.com/rid/B-8523-2011>

g. Evaluator of Research Projects for:

- FP7 Programme (ID : EX2008C004273) : <https://cordis.europa.eu/emmf7/>.
- EVAL-INCO Programme (Expert in Energy): <http://www.internationales-buero.de/>
- EACI Programme (Expert in Energy): <http://ec.europa.eu/eaci/ers>
- CNCSIS Ideas and ANCS PN II Programme: <http://www.experti-cdi.ro>

h. Chairman and proceeding's editor of ECAI conference: www.ecai.upit.ro

IX. Academy memberships: Romanian Committee for History and Philosophy of Science and Technology, Romanian Academy, Pitesti branch, from 2010.

j. Leading approval for PhD from 2011

II. Scientific visibility and research results

II.1. *Main research results.*

a. The research made by applicant was focused on the field of energy management:

Table 1: Projects list web page of ANCS* (Ro)	Identifier [ID no]	Duration [years]	Amount [Euros]	Partners	Field
1. http://cncsis570.electronist.net/	570	2006-2008	40,000	RO	Energy
2. http://www.cnmp.ro/ceex/	4286	2006-2008	370,000	RO	Energy
3. http://www.cnmp.ro/ceex/	5558	2006-2008	360,000	RO	Energy
4. http://www.cnmp.ro/ceex/	4162	2006-2008	400,000	RO	Energy
5. http://www.sinerg.ro/	22140	2008-2011	500,000	RO	Energy
6. http://www.electromet.upit.ro/	72209	2008-2011	100,000	RO	Energy
7. http://myomodel.net	61010	2008-2011	500,000	EU	Modeling
8. http://www.intelprot.ro	11069	2008-2010	500,000	RO	Medical Eq.
9. http://www.cnmp.ro/ceex/	8003	2006-2008	400,000	RO	EM Comp.
10. http://www.cnmp.ro/ceex/	1234	2005-2008	400,000	RO	TIC
11. http://www.cnmp.ro/	26	2001-2003	200,000	RO	TIC
12. Draxlmaier Serviceleistung	7888	2001	10,000	No	Energy

* ANCS - National Agency for Scientific Research

Research expeditions that has been led by the PL (No. 1, 2, and 12 in Table 1):

1. Intelligent control algorithms for the Energy Generation Systems, Idea grant, CNCSIS no 570, 2006-08, 40,000 Euros. <http://194.102.64.7/>

2. Integrated Energy Generation Systems using renewable, beneficiary: ANCS- PNCDI – AMCSIT, CEEX226 no. 4286, 2006-2008, 370,000 Euros, <http://www.icsi.ro/>).

Research expeditions in field of energy management that has been supported by the PL:

1. Theoretical and experimental demonstrations of electric and hybrid propulsion systems to develop competitive and sustainable transport systems, beneficiary: ANCS - PNCDI- AMTRANS, ID no. 5558.

2. Technology-based nanostructured materials for electrochemical double layer capacitors used to store electricity - Supercapacitors, beneficiary: ANCS - PNCDI - AMCSIT, ID no. 4162.

3. Computer system design, simulation, testing and configuring smart renewable energy power systems, PNCDI II 4 Partnerships, beneficiary: UEFISCDI AMCSIT, 2008-2011; ID no. 22140, <http://www.cnmp.ro:8083/pncdi2/program4/2008/...>

4. Research on intelligent control of hybrid electric propulsion system with continuous transmission PNCDI II 4, PC 72209, beneficiary: UEFISCDI AMCSIT, 2008-2011; ID no. 72209, <http://cnmp.ro:8083/pncdi2/program4/2008/...>

b Awarded product (in many int. expositions): Integrated PEMFC 2kW - photovoltaic electrolyser, authors: M. Culcer, N. Bizon and all, research project CEEX 226, beneficiary ICSI Rm. Valcea.

The research work performed by applicant in last 5 years has been concretized in publishing of 8 papers in ISI journals (with impact factor (IF); 2 accepted in 2012 - see section B3.1), 7 papers in indexed journals, 2 papers in Journals of the Romanian Academy, and 10 papers published in conferences indexed by ISI Web of Knowledge and IEEE Xplore (<http://www.researcherid.com/rid/B-8523-2011>). This activity led to increased visibility (V) of research conducted by PL, causing a rise in (V1) citation rate of PL's works (see B3.1 and Table 2), (V2) number of proposal to publish books in prestigious publishers (see B3), (V3) invited lectures in outstanding conferences (see B3.3), (V4) number of membership invitations to Editorials Boards and Steering committee for several of Int. Journals and Conferences (see B3.3), (V5) number of reviewer's requests for EU projects and ISI journals (see B2 VII) etc.

mm.2012	No*	Journal and paper that cites the PL work (not yet visible in ISI Web of Science)	ISSN
03.2012	6	http://dx.doi.org/10.1016/j.ijhydene.2011.12.042 , 37 (6): 4737-48	0360-3199
03.2012	4	http://dx.doi.org/10.1016/j.ijhydene.2011.12.042 ,	0360-3199
05.2012	4	http://dx.doi.org/10.1016/j.jpowsour.2012.01.012 , 205: 281-9	0378-7753
02.2012	4	10.3923/ijtj.2012.58.66 11 (1): 58-66	1812-5638
03.2012	3	http://dx.doi.org/10.1016/j.ijhydene.2011.12.042 , 37 (6): 4737-48	0360-3199
06.2012	3	http://dx.doi.org/10.1016/j.apenergy.2012.01.017 94: 156-65	0306-2619
01.2012	3	10.1109/TVT.2012.2183628 ; 99: 1-10	0018-9545

II.2. The visibility of the scientific contributions

a) Invited presentations:

- Fuel Cell Hybrid Power Sources: Mitigation techniques of the fuel cell current ripple, World Congress on Sustainable Technologies (WCST-2012),
 - Hybrid Power Source for Vehicle Applications Operating at Maximum Power Point of Fuel Cell Stack, Int. Conf. on Applied Electronics 2010 - APPEL'10, ISSN: 1803-7232, ISBN: 978-1-4244-6818-8, pp. 3-10, INSPEC: 11579461, http://ieeexplore.ieee.org/xpl/freeabs_all.jsp?arnumber=5599557
 - Active Filtering Techniques for Fuel Cell Stack Current Ripple, Int. conf on Electronics, Computers and Artificial Intelligence - ECAI'09, No.1, pp. 33-43, ISSN 1843-2115, July 3-5, 2009, www.ecai.upit.ro
 - Use of fuzzy graphs for criteria evaluation, The Fifth Multi-Conference on Systemics, Cybernetics and Informatics – SCI2001, Vol. XIX – Cybernetics and Informatics: Concepts and Applications (part III), Orlando, Florida, USA, July 22 - 25, 2001;
- b) Invited professor at Dept. of Applied Electronics and Telecommunications, Electrical Engineering, Univ. of West Bohemia, Plzen, Czech Republic, 7.09.2010 to 12.09.2010.
- c) Organization of International conferences in the field of the applicant
- Program chairman and proceedings editor of the Int. Conf. on Electronics, Computers and Artificial Intelligence – ECAI, all editions: www.ecai.upit.ro.
 - Membership in the steering and/or programme committee for several conferences:
 - International IEEE Conference on Intelligent Systems Design and Applications - ISDA 2010, technically Co-Sponsored by IEEE Computer Society, from 2010, <http://cig.iet.unipi.it/isda2010/>
 - International IEEE Conference on Information Society (i-Society 2010), Technically Co-Sponsored by IEEE UK/RI Computer Chapter, from 2010, www.i-society.eu
 - International IEEE Conference for Internet Technology and Secured Transactions – ICITST, Technically Co-Sponsored by IEEE UK, from 2009, <http://www.icitst.org/>
 - Int. Conf. on Electrical and Electronics Engineering– ELECO , from 2009, www.eleco.org.tr
 - Int. conf. Intelligent on Computing and Information Systems – ICICIS, Technically Co-Sponsored by ACM EG, from 2009, <http://icicis.edu.eg/>
 - Int. IEEE conf. on Applied Electronics, Tech. from 2008, <http://appel.zcu.cz>
 - Int. IEEE conf. on Electronics, Computers and AI, from 2005, www.ecai.upit.ro
 - Int. conf. Technologies and Power Electronics - TPE08, from 2008, www.ictpe.com
 - EU Conf. on Intelligent Systems and Technologies - ECIT, 2004, www.iit.tuiasi.ro/ecit2008
- d). Academy memberships: Romanian Committee for History and Philosophy of Science and Technology, Romanian Academy, Pitesti branch, from 2010.
- e). IEEE Romania Section diploma for outstanding achievements in fulfilling the goals of the IEEE - nomination at the 20th founding anniversary of the IEEE Romania section, 2011
- f). Memberships to Editorials Boards of International Journals
- Electrical Power Manag. and Distribution, 1758-6410, <http://www.power.meditjournal.com/>
 - Renewable Energy, 1758-6402, <http://www.renenergy.meditjournal.com/>
 - Int. J. on Technical and Physical Problems of Eng. (IJTPE), 2077-3528, www.ijtp.com
 - University of Pitesti Scientific Bulletin, Series: Electronics and Computer Science, 1453-1119, <http://www.orar.upit.ro/DocManagerPub/PublicSite/Main.aspx>
 - The Sci. Bulletin of Electrical Eng. Faculty – Valahia University, 1843-6188, <http://www.buletinfie.ro>

III. List of publication (5-Years Track-Record, 2007-2012):

a1) Two books edited and a book chapter published in International Publishing Houses

1. N. Bizon and N. M. Tabatabaei (Ed.), *Advances in Energy Research: Energy and Power Engineering*, Nova Science Publishers Inc., USA, 2013 978-1-62257-534-3 (hardcover), 978-1-62257-546-6 (ebook).
2. N. Bizon (Ed.), *Distributed Generation systems integrating Renewable Energy Resources*, 3 chapters by N. Bizon, Nova Science Publishers Inc., USA, 2011, 978-1-61209-991-0 (hardcover), 978-1-61209-991-2 (ebook).
1. N. Bizon, Intelligent control of the Energy Generation System, book chapter in: K. Metaxiotis (Ed.), *Intelligent Information Systems and Knowledge Management for Energy: Applications for Decision Support, Usage and Environmental Protection*, IGI Global, USA, 2009, chapter 2, pp. 40 -96, ISBN 978-1-60566-737-9 (hardcover), ISBN 978-1-60566-738-6 (ebook).

a2) Research books published in Publishing House recognized by CNCSIS (National Council)

a21) In English language (2)

1. N. Bizon, 2010, 4 chapters in N. Bizon (Ed.), *Complex Behaviour of the Distributed Generation System: Intelligent Management of the Renewable Energy Resources for assuring the DG System Power Quality and a Sustainable Development*, Publishing house of the University of Pitești, Pitești, ISBN 978-606-560-128-4 (hardcover), ISBN 978-606-560-129-1 (e-book).
2. N. Bizon, Dimitris C. Voukalis, 2007, *Fundamentals of Electromagnetic Compatibility, Theory and Practice*, 250 pages, MatrixROM Publishing house, Bucharest, ISBN: 978-973-755-263-1.

a22) In Romanian language: 3 books on research area and 1 book for students

1. N. Bizon, 2008, *Modelling of Inverter Systems supplied by Fuel Cells*, ISBN 978-973690-817-0.
2. N. Bizon, 2008, *Optimized Systems for Green Power Conversion*, ISBN 978-973-755-401-7.
3. N. Bizon, M. Oproescu, 2007, *Power Converters for Energy Systems*, ISBN978-973-690-644-2.
4. N. Bizon, 2007, *PC architecture and Communication with Devices* (Structura Hardware a Calculatorului Personal si Comunicatia cu Echipamentele Periferice), 440 pages, MatrixROM Publishing house, Bucharest, ISBN 978-973-755-131-3.

b1) Papers in ISI Journals with IF (10)

1. Bizon N., Energy harvesting from the FC stack that operates using the MPP tracking based on modified extremum seeking control, *Applied Energy* 104(2013), 326-336. 10.1016/j.apenergy.2012.11.011 April 2013
2. <http://dx.doi.org/10.1016/j.apenergy.2012.11.011>
3. Bizon N., FC energy harvesting using the MPP tracking based on advanced extremum seeking control, *International Journal of Hydrogen Energy* 2013, February 2013,
4. <http://dx.doi.org/10.1016/j.ijhydene.2012.10.112>
5. Bizon N., Energy efficiency for the multiport power converters architectures of series and parallel hybrid power source type used in plug-in/V2G fuel cell vehicles. *Applied Energy* 2012, 102, 726-734; February 2013,
6. <http://dx.doi.org/10.1016/j.apenergy.2012.08.021>
7. N. Bizon, Energy Efficiency of Multiport Power Converters used in Plug-In/V2G Fuel Cell Vehicles, *Applied Energy* 2012, 96, 431-443.
8. <http://dx.doi.org/10.1016/j.apenergy.2012.02.075>
9. N. Bizon, Nonlinear control of fuel cell hybrid power sources: Part II –Current control, *Applied Energy* 88(7) (2011) 2574–2591, doi: <http://dx.doi.org/10.1016/j.apenergy.2011.01.044>
10. N. Bizon, Nonlinear control of fuel cell hybrid power sources: Part I –Voltage control, *Applied Energy* 88(7) (2011) 2559–2573, doi: <http://dx.doi.org/10.1016/j.apenergy.2011.01.030>
11. N. Bizon, A new Topology of Fuel Cell Hybrid Power Source for Efficient Operation and High Reliability, *Journal of Power Sources* 196(6) (2011) 3260–3270, doi: <http://dx.doi.org/10.1016/j.jpowsour.2010.11.049>
12. N. Bizon, On tracking robustness in adaptive extremum seeking control of the fuel cell power plants, *Applied Energy* 87(10) (2010) 3115–3130, doi: <http://dx.doi.org/10.1016/j.apenergy.2010.04.007> .
13. N. Bizon, E. Sofron, M. Raducu, M. Oproescu, Nonlinear control for buck switching power supplies using opto-couplers in the stabilization feedback loop, *Optoelectronics and Advanced Materials - Rapid Communications* 4(6) (2010) 788 - 794 : <http://oam-rc.inoe.ro/index.php?option=magazine&op=view&idu=1100&catid=51>
14. N. Bizon, Development of a fuel cell stack macro-model for inverter current ripple evaluation, *Revue Roumaine des Sciences Techniques series Électrotechnique et Énergetique* 55(4) (2010) 405-415, <http://revue.elth.pub.ro/viewpdf.php?id=256>

b2) Papers in indexed Journals (2 in the last five years)

1. N. Bizon, http://www.medjmc.com/papers%20archive/Vol5-2009/vol5_2body.html
2. N. Bizon, http://www.medjmc.com/papers%20archive/Vol3-2007/vol3_3body.html

b3) Papers in Journals (indexed by CNCSIS as +B & B) (3 in the last five years)

c1) 3 papers published in conferences indexed by ISI Web of Knowledge (<http://www.researcherid.com/rid/B-8523-2011>)

c2) Papers published in conferences indexed by IEEEXplore (7 in the last four years)

1. N. Bizon, M. Oproescu, M. Raducu, 2012, On the Dither Persistence in the Extremum Seeking control - Part I: ESC loop based on Band-Pass Filter, *World Congress on Sustainable Technologies (WCST-2012)*, London,
2. N. Bizon, M. Oproescu, M. Raducu, 2012, On the Dither Persistence in the Extremum Seeking control - Part II: Signal harmonics' persistence for large filtering pass band, *World Congress on Sustainable Technologies (WCST-2012)*, London,
3. N. Bizon, M. Stork, M. Oproescu, 2012, <http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=6322864>
4. N. Bizon, <http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=6322864>
5. N. Bizon, M. Stork, 2011, http://ieeexplore.ieee.org/xpl/freeabs_all.jsp?arnumber=6049053
6. N. Bizon, M. Stork, 2011, http://ieeexplore.ieee.org/xpl/freeabs_all.jsp?arnumber=6049054

7. N. Bizon, 2010, http://ieeexplore.ieee.org/xpl/freeabs_all.jsp?arnumber=5599557
8. N. Bizon, 2010, http://ieeexplore.ieee.org/xpl/freeabs_all.jsp?arnumber=5599658
9. N. Bizon, et al, 2009, http://ieeexplore.ieee.org/xpl/freeabs_all.jsp?arnumber=5206099
10. N. Bizon, et al, 2008, http://ieeexplore.ieee.org/xpl/freeabs_all.jsp?arnumber=4588819
11. N. Bizon, et al, 2008, http://ieeexplore.ieee.org/xpl/freeabs_all.jsp?arnumber=4635334

d3) 36 papers in Proceedings of Conferences/Symposiums (all as first or single author); 10 organized abroad and 16 in Romania;
f2) 11 national research projects (see ID Founding Table)

IV. Other data:

Hirsch Index: Hirsch Index: 3 (2012)

Total number of citations: 31 ;

<http://www.researcherid.com/rid/B-8523-2011>;

Projects' evaluator for EVAL-INCO

[-http://www.internationales-buero.de/gutachter/index.php?id=2&activation=8c7c4a48a85eececb6d514c8e44c0d62b9b1eb9](http://www.internationales-buero.de/gutachter/index.php?id=2&activation=8c7c4a48a85eececb6d514c8e44c0d62b9b1eb9);

Projects' evaluator for CNCISIS.

V. Selection of 10 relevant publications

A list of the top 10 publications, as senior author (all visible in ISI Web of Knowledge):

1. N. Bizon, Nonlinear control of fuel cell hybrid power sources: Part I –Voltage control, Applied Energy 88 (2011) 2559–2573,

1. N. Bizon, Energy Efficiency for Multiport Power Converters Architectures of Series & Parallel type used in Plug-in/V2G Fuel Cell Vehicles, Transaction on Energy Conversion, accepted on 8.03.2012.

2. N. Bizon, Energy Efficiency of Multiport Power Converters used in Plug-In/V2G Fuel Cell Vehicles, Applied Energy, accepted on 28.02.2012. doi: 10.1016/j.apenergy.2012.02.075

3. N. Bizon, A new Topology of Fuel Cell Hybrid Power Source for Efficient Operation and High Reliability, J Power Sources 196(6) (2011) 3260–70, cited: 3. <http://dx.doi.org/10.1016/j.jpowsour.2010.11.049>

4. N. Bizon, Nonlinear control of fuel cell hybrid power sources: Part II–Current control, Applied Energy 88 (2011) 2574–91, cited: 0. doi: <http://dx.doi.org/10.1016/j.apenergy.2011.01.044>

5. N. Bizon, Nonlinear control of fuel cell hybrid power sources: Part I –Voltage control, Applied Energy 88 (2011) 2559–73, cited: 3. doi: <http://dx.doi.org/10.1016/j.apenergy.2011.01.030>

6. N. Bizon, On tracking robustness in adaptive extremum seeking control of the fuel cell power plants, Applied Energy 87(10) (2010) 3115–30, cited: 5. doi: <http://dx.doi.org/10.1016/j.apenergy.2010.04.007> .

7. N. Bizon, G. Iana, M. Oproescu, Fuzzy Interpolation of the Average Signal Steps, Int. Symposium on Signals, Circuits and Systems (ISSCS 2009), 1-4, INSPEC: 10835486, cited: 1. http://ieeexplore.ieee.org/xpl/freeabs_all.jsp?arnumber=5206099

8. N. Bizon, E. Sofron, M. Raducu, M. Oproescu, Nonlinear Control for a Buck switching power supplies using opto-couplers in feedback loop, Optoelectronics and Advanced Materials - Rapid Communications 4(6) (2010) 788 – 94, cited: 1.

<http://oam-rc.inoe.ro/index.php?option=magazine&op=view&idu=1100&catid=51>

9. N. Bizon, Intelligent control of the Energy Generation System, book chapter in: K. Metaxiotis (Ed.), Intelligent Information Systems and Knowledge Management for Energy: Applications for Decision Support, Usage and Environmental Protection, IGI Global, USA (2009) chapter 2, pp. 40 -96, ISBN 978-1-60566-737-9 (hardcover), ISBN 978-1-60566-738-6 (ebook).

<http://www.igi-global.com/bookstore/Chapter.aspx?TitleId=36963>

http://www.worldcat.org/title/intelligent-information-systems-and-knowledge-management-for-energy-applications-for-decision-support-usage-and-environmental-protection/oclc/458110291&referer=brief_results

Number of University Libraries: <http://www.worldcat.org> : USA (23), Canada (7), [Zeitschriftenkatalog Italien](#) (1); swissbib (1), etc.

Selection of ten University Libraries: [Columbia University](#); [North Carolina State University](#); [Tennessee State University](#); [University of Arizona](#); [University of Delaware](#); [University of Pittsburgh](#); [Virginia State University](#); [Memorial University](#); [University of Calgary Library](#); [University of Western Ontario](#).

10. N. Bizon (Ed.), Distributed Generation systems integrating Renewable Energy Resources, 3 chapters by N. Bizon, Nova Science Publishers, Inc., USA, 2012, 978-1-61209-991-0 (hardcover), 978-1-61209-991-2 (ebook).

http://www.worldcat.org/title/advances-in-energy-research-distributed-generations-systems-integrating-renewable-energy-resources/oclc/709668032&referer=brief_results

https://www.novapublishers.com/catalog/product_info.php?products_id=22516

VI. The autonomy and visibility of the scientific activity.

a. Fundraising through research projects

N. Bizon won two projects in national competitions and actively participate in others 8 (see section above, where the title, funding agency, duration, and the total amount (3,570,000 Euros for all) is mentioned);

b. Management of research in research centre of excellence and research teams

N. Bizon was Executive Manager of research centre for Scientific Excellence on "Automotive Engineering" (1999) and "Modeling and simulation of processes and systems" (2008-to date). The research results were reported to ANCS, Ministry of Education and Research (MER), and can be found on the university web page <http://www.upit.ro/index.php?i=58>

N. Bizon was Head of research team "Applied Electronics" (1998- to date). In this quality he manages the projects gained in national competitions or requested by companies. The members of research team acquiring experience to sustain projects in Applied Electronics, including this type of project proposed. The outstanding scientific results were published.

c. Invited plenary presentations and invited professor:

1. Hybrid Power Source for Vehicle Applications Operating at Maximum Power Point of Fuel Cell Stack, APPEL'10, ISSN: 1803-7232, ISBN: 978-1-4244-6818-8, pp. 3-10, INSPEC: 11579461, http://ieeexplore.ieee.org/xpl/freeabs_all.jsp?arnumber=5599557 ;
2. Active Filtering Techniques for Fuel Cell Stack Current Ripple, ECAI'09, No.1, pp. 33-43, ISSN 1843-2115, July 3-5, 2009, www.ecai.upit.ro (ECAI'2009 archive);
3. Use of fuzzy graphs for criteria evaluation, The Fifth Multi-Conference on Systemics, Cybernetics and Informatics – SCI2001, Vol. XIX – Cybernetics and Informatics: Concepts and Applications (part III), Orlando, Florida, USA, July 22 - 25, 2001;
- 4) Invited professor at Dept. of Applied Electronics and Telecommunications, Electrical Engineering, Univ. of West Bohemia, Plzen, Czech Republic, 7.09.2010 to 12.09.2010.

d. Memberships to Editorials Boards of indexed Journals:

- Electrical Power Management and Distribution, 1758-6410, <http://www.power.meditjournal.com/>
- Renewable Energy, 1758-6402, <http://www.renenergy.meditjournal.com/>
- Int. J. on Technical and Physical Problems of Eng. (IJTPE), 2077-3528, www.ijotpe.com
- University of Pitesti Scientific Bulletin, Series: Electronics and Computer Science, 1453-1119, http://fecce_bulletin.upit.ro/PublicSite/Main.aspx
- The Sci. Bulletin of Electrical Eng. Faculty – Valahia University, 1843-6188, <http://www.buletinfie.ro>
- Other memberships and activities for academic community:
 1. Chair and proceedings editor of the Int. Conf. on Electronics, Computers and Artificial Intelligence – ECAI, all editions (2002-2011): www.ecai.upit.ro.
 2. Technical Activities Chair in IEEE Romania Section board, from 2012;
 3. Membership in the steering committee for several conferences:
 - Int. IEEE Conference on Intelligent Systems Design and Applications - ISDA, technically Co-Sponsored by IEEE Computer Society, from 2010, <http://cig.iet.unipi.it/isda2010/>
 - Int. IEEE Conference on Information Society (i-Society), Technically Co-Sponsored by IEEE UK/RI Computer Chapter, from 2010, www.i-society.eu
 - Int. IEEE Conference for Internet Technology and Secured Transactions – ICITST, Technically Co-Sponsored by IEEE UK, from 2009, <http://www.icitst.org/>
 - Int. Conf. on Electrical and Electronics Engineering– ELECO , from 2009, www.eleco.org.tr
 - Int. conf. Intelligent on Computing and Information Systems – ICICIS, Technically Co-Sponsored by ACM EG, from 2009, <http://icicis.edu.eg/>
 - Int. IEEE conf. on Applied Electronics, Tech. from 2008, <http://appel.zcu.cz>
 - Int. IEEE conf. on Electronics, Computers and AI, from 2005, www.ecai.upit.ro
 - Int. conf. Technologies and Power Electronics - TPE08, from 2008, www.ictpe.com
 - EU Conf. on Intelligent Systems and Technologies - ECIT, 2004, www.iit.tuiasi.ro/ecit2008
- 4. Reviewer for outstanding journals (IEEE Trans. on Energy Conversion; J of Power Source; Applied Energy; Int. J of Hydrogen Energy; IEEE Trans. on Control Systems Technology, Int. J of Electronics; etc.) and conferences visible in ISI Web of Science.

e. Capacity to initiate collaboration with other research groups

N. Bizon initiated and then developed in national research projects of Partnership type such of research. All projects mention in Table 1 (Project list) was of Partnership type, excepting the first position which was of Idea type. The Partnership projects were developed with universities and research institutes (National Institute of Research and Development for Cryogenic and Isotopic Technologies, ICSI Rm. Valcea; Institute of Mathematics "Simion Stoilow" - Romanian Academy; National Communications Research Institute (INSCC); Research Institute for Artificial Intelligence -Romanian Academy; Institute of Computer Science of the Romanian Academy, Iași Branch; National Institute of Materials Physics, Magurele; Institute of Nuclear Research, Mioveni; etc.) from Romania. The results were disseminated in expositions (Awards) and publications.

Meanwhile, N. Bizon initiates collaborations with universities (University of Poitiers, Fr, Gazi University, Tk, University of East London,, UK University of West Bohemia, Cz; Technical University of Piraeus, Gr; Sabzevar Tarbiat Moallem University, Iran, etc.), research institutes (LaMIPS, Caen, Fr ; Univ Lille Nord de France, Fr ; IRISE - Institute de Recherché en Innovation et Sciences de l'Industrie CESI, Fr ; Seraj Higher Education Institute, Iran ; etc.) from abroad, and int. associations (Infonomics Society, www.infonomics-society.org; International Organization on Technical and Physical Problems of Engineering (IOTPE) <http://www.ijotpe.com>).

Below are given some results of common research:

1. Organization of Ro-Fr Exploratory Workshop under ECAI 2011 and publication of common research on hybrid vehicle in a book (scheduled for 2013; point 3);
2. N. Bizon, N. M. Tabatabaei, H. Shayeghi (Ed.), Advanced techniques and Applications of Hybrid Power Systems: Stability, Control and Optimal Operation, Springer, London, UK; accepted book on 15.02.2012 (scheduled for 2013).
3. N. Bizon, L. Dascalescu, and N. M. Tabatabaei (Ed.), Autonomous Hybrid Vehicles: Intelligent Transport Systems and Automotive Technologies, Nova Science Publishers Inc., USA, 2013 (in work).
4. N. Bizon (Ed.), 2010, Complex Behaviour of the Distributed Generation System: Intelligent Management of the Renewable Energy Resources for assuring the DG System Power Quality and a Sustainable Development, Publishing house of the University of Pitesti, ISBN 978-606-560-128-4 (hardcover), ISBN 978-606-560-129-1 (e-book).
5. N. Bizon, Dimitris C. Voukalis, 2007, Fundamentals of Electromagnetic Compatibility, Theory and Practice, 250 pages, MatrixROM Publishing house, Bucharest, ISBN: 978-973-755-263-1. <http://www.matrixrom.ro/english/publishing/domains/contents.php?contents=ECCO>

6. Organization of TPE (www.iotpe.com) and ECAI (www.ecai.upit.ro) conferences;
7. Proposals for joint research projects (see above).
8. Organization of Exploratory Workshop in field of Renewable Energy Sources, www.ew.upit.ro

20.01.2013

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