



## Europass Curriculum Vitae



### Personal information

First name(s) / Surname(s) Nicu BIZON  
Address(es) 110040 Pitesti Str. Targu din Vale, nr.1, Arges, Romania  
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Fax(es) +40 348 453 200  
E-mail(s) [nicubizon@yahoo.com](mailto:nicubizon@yahoo.com), [nicu.bizon@upit.ro](mailto:nicu.bizon@upit.ro)  
Nationality Romanian  
Date of birth 14.02.61  
Gender M

### Desired employment / Occupational field

**Electronics Engineering**

### Work experience

Dates	2012 – 2016
Occupation or position held	member in the Commission of Electronics, Telecommunications and Nanotechnology of the National Council for the Recognition of Degrees, Diplomas and Certificates
Main activities and responsibilities	Evaluation
Name and address of employer	Ministry of Education and Research, Romania
Dates	2012 – 2013
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	2012 – present
Occupation or position held	PhD Advisor
Main activities and responsibilities	Evaluation / research / management
Name and address of employer	POLITEHNICA University of Bucharest, Doctoral School, SD-ETTI
Dates	2012 – 2016 and 2016 - 2017
Occupation or position held	Dean of the Faculty of Electronics, Communication and Computers
Main activities and responsibilities	Administration and Educational Management
Name and address of employer	UNIVERSITY OF PITESTI 110040 Pitesti, Str. Targu din Vale, nr.1, Arges, Romania
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	UNIVERSITY OF PITESTI 110040 Pitesti, Str. Targu din Vale, nr.1, Arges, Romania
Dates	2008 – 2012
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	UNIVERSITY OF PITESTI 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	UNIVERSITY OF PITESTI 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	UNIVERSITY OF PITESTI 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	UNIVERSITY OF PITESTI 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	UNIVERSITY OF 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	UNIVERSITY OF 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	UNIVERSITY OF 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	UNIVERSITY OF 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	UNIVERSITY OF PITESTI 110040 Pitesti, Str. Targu din Vale, nr.1, Arges, Romania
Dates	1989-1992
Occupation or position held	Assistant professor
Main activities and responsibilities	Research and education
Name and address of employer	UNIVERSITY OF 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 Engineering / Automatic Systems  
Name and type of organisation providing education and training Polytechnic University of Bucharest, Faculty of Electronics, Communication and IT

Dates October 01, 1980 – October,30, 1986  
Title of qualification awarded Bachelor of Science  
Principal subjects / occupational skills covered 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

**English**  
**Italian**  
**French**

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  
Computer skills and competences  
Other skills and competences

I'm a sociable, communicative, reliable, conscientious, responsible and very creative person

ECDL professional certificate / Matlab, Spice, Labview

Chief Editor - *Journal of Electrical Engineering, Electronics, Control and Computer Science -JEECCS* ;  
Chief Editor - *International Journal on "Technical and Physical Problems of Engineering"(IJTPE)*  
Associate Editor - *Heliyon*, Elsevier;  
Associate Editor - *Scientific journal of the University of Pitesti "Electronics and Computer Science"*;  
General chair - Conference "*Electronics, Computers and Artificial Intelligence - ECAF*"

Driving licence(s)

B category

**Annexes**

List of the papers published is available on:

<http://scholar.google.com/citations?user=owM5oXoAAAAJ&hl=en>

[www.researcherid.com/rid/B-8523-2011](http://www.researcherid.com/rid/B-8523-2011)

<http://orcid.org/0000-0001-9311-7598>

<http://www.scopus.com/authid/detail.url?origin=AuthorProfile&authorId=22936824500>

[https://www.researchgate.net/profile/Nicu\\_Bizon](https://www.researchgate.net/profile/Nicu_Bizon)

[http://apps.webofknowledge.com.am.e-information.ro/Search.do?product=WOS&SID=E4DVFFGxm8mSaKRpECf&search\\_mode=GeneralSearch&prID=f4ecb372-c2e1-4053-80df-17ed9e388211](http://apps.webofknowledge.com.am.e-information.ro/Search.do?product=WOS&SID=E4DVFFGxm8mSaKRpECf&search_mode=GeneralSearch&prID=f4ecb372-c2e1-4053-80df-17ed9e388211)

<https://www.upit.ro/ro/academia-reorganizata/facultatea-de-electronica-comunicatii-si-calculatoare-2/departamentul-de-electronica-calculatoare-si-inginerie-electrica-decie/despre-decie/membrii-departamentului>

Academic recognition (see below)



# Academic recognition

## 1. Awards

"Tudor Tanasescu" award of the Romanian Academy for 2013 (the award is given only once in life):

<http://www.academiaromana.ro/premiileAR/liste/2013.pdf>

„Spiru Haret award of the MLNR and the Romanian Academy for 2016 (the award is given only once in life):

<http://www.tvrplus.ro/emisiune-gala-premiilor-marii-loji-nationale-din-romania-5051>

UEFISCDI award: Awarded product: Integrated PEMFC 2kW - photovoltaic electrolyser, authors: M. Culcer (ICSI-Rm. Valcea), N. Bizon (UPIT) and all, research project CEEX 226, beneficiary ICSI Rm. Valcea, 2011.

Outstanding Paper Award, 2015, 3rd prize, International Telecommunications Energy Conference – INTELEC 2017,

<http://www.intelec2015.org/>

Outstanding Paper Award, 1st prize, European Conference on Renewable Energy Systems - ECRES 2016,

<http://www.ewres.info/files/PROGRAMME.pdf>

2. Member of the Romanian History and Philosophy of Science and Technology (CRIFT), Romanian Academy, Pitesti branch, 2010-present : <http://www.acad.ro/crifst/crifst.htm>

3. Professional recognition from IEEE - Institute of Electrical and Electronics Engineers

- IEEE Romania Section diploma for outstanding achievements in fulfilling the goals of the IEEE, 2011;

- Member of the executive board of IEEE Romania section, chair with technical activities, 2014.

- Senior Member, 2016

4. Editor

- Associate Editor for IET Renewable Power Generation (RPG) Journal; IF= 3.488:

<https://digital-library.theiet.org/journals/iet-rpg/editorial-board>

- Associate (Topic) Editor for Energies Journal; IF= 2.707:

[https://www.mdpi.com/journal/energies/topic\\_editors](https://www.mdpi.com/journal/energies/topic_editors)

- Chief Editor of the International Journal on "Technical and Physical Problems of Engineering" (IJTPE) (indexed in Scopus): <http://www.iotpe.com/IJTPE/EditorialBoard.html>

- Chief Editor of the Journal of Electrical Engineering, Electronics, Computer Science and Control –JEECCS:

<http://jeeccs.net/index.php/journal/about/editorialTeam>

- Associate Editor for Journal of Energy Systems (JES) - [www.dergipark.gov.tr/jes](http://www.dergipark.gov.tr/jes)

- Associate Editor for Journal of Vehicle Dynamics <http://ojs.whioce.com/index.php/vd>

- Chief Editor and chair of the Conference "Electronics, Computers and Artificial Intelligence - ECAI" (this conference was technically supported by the IEEE IAS starting with 2013), 2002- present: <http://ecai.ro/>

5. Evaluator / Reviewers:

- For EU Research Projects under FP7 Programme, EVAL-INCO Programme, EACI Programme, etc.

- For regional competitions: ERANETMED Renewable Energies, ERA.Net RUSSIAN Plus

- For national competitions: 2007-13 NSRF (Greece), NEWFELPRO 2013-17 (Croatia) The Estonian Research Council, CNCSIS Ideas and ANCS PN II Programme (Romania).

- For recognized WoS journals (IEEE Transactions on Power Electronics, IEEE Transactions on Industrial Electronics, IEEE Transactions on Energy Conversion, IEEE Transactions on Industrial Informatics, IET Renewable Power Generation, IEEE Transactions of Control Systems Technology and so on) some certificates recognizing this activity are available on:

<https://www.reviewerrecognition.elsevier.com/recognition/index?key=A002F298890F30D8760D7073A6B6DB1C7C68B9ED1BEC774A>

6. Keynote presentations:

Nicu Bizon, How to write a research paper, King Mongkut's University of Technology North Bangkok, Science and Technology Research Institute, Scientific symposium 2018. <https://www.kmutnb.ac.th/en/>



Nicu Bizon, Ways to increase the Energy Efficiency of Hybrid Power Sources based on efficient Energy Management of the Fuel Cell and the Renewable Energy Sources, King Mongkut's University of Technology North Bangkok, Science and Technology Research Institute, Scientific symposium 2018  
<https://www.kmutnb.ac.th/en/>

Nicu Bizon, Efficient Energy Management Strategies for the Hybrid Power Systems based on Fuel Cell and the Renewable Energy Sources, 2nd Renewable Energy Sources - Research and Business (RESRB-2017), June 19-21 2017, Wrocław, Poland [https://works.bepress.com/wojciech\\_budzianowski/46/download/](https://works.bepress.com/wojciech_budzianowski/46/download/)

Nicu Bizon, Energy Efficiency of Hybrid Power Sources, International conference on Allied Electrical and Communication Systems (ICA ECS2016) <http://icaecs.org/speakers.html>

Nicu Bizon, M. Oproescu, G.R. Sisman, PREDICTIVE MAINTENANCE PRIORITIZATION USING FUZZY GRAPHS ICTPE 2016 <http://www.iotpe.com/ictpe-past.html>

Nicu Bizon, Ways to increase the Energy Efficiency of Hybrid Power Sources based on efficient Energy Management of the Fuel Cell and the Renewable Energy Sources  
ECRES 2016 <http://www.ewres.info/2016/>

S.D. Mirel, N. Bizon. Preliminary tests based on fuzzy intelligence on a system of non-destructive examination  
ICTPE 2015 <http://www.iotpe.com/ictpe-past.html>

Nicu Bizon, Fuel Cell Hybrid Power Sources - Mitigation techniques of the fuel cell current ripple, 30 years anniversary symposium of the Institute of Computer Science of the Romanian Academy (Iasi Branch), June, 20-21, 2014, Iasi, Romania  
[http://iit.academiaromana-is.ro/iit\\_30aniv.html](http://iit.academiaromana-is.ro/iit_30aniv.html)

Nicu Bizon, Extremum Seeking Control Applied to Different Renewable Energy Sources, 3rd International Conference on Energy and Environment Technologies and Equipment (EEETE '14), Brasov, Romania, June 26-28, 2014 <http://www.wseas.org/cms.action?id=7496>

On the search speed for the extremum seeking control scheme based on band pass filter, 9th International Conference on Technical and Physical Problems of Electrical Engineering (ICTPE-2013), 9-11 September 2013, Istanbul, Turkey  
<http://www.iotpe.com/ICTPE/ICTPE-2013/ConferenceProgram.html>

Nicu Bizon, Fuzzy Interpolation and Filtering Techniques for Signals pre-Processing, 6th International Conference on Intelligent Computing and Information Systems ICICIS'13, 14-16 December, 2013, Cairo, Egypt  
<http://net2.shams.edu.eg/icicis/2013/>

Nicu Bizon Fuel Cell Hybrid Power Source, World Congress on Sustainable Technologies (WCST-2012), <http://www.wcst.org/Home.html>

Nicu Bizon, 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](http://ieeexplore.ieee.org/xpl/freeabs_all.jsp?arnumber=5599557)

Nicu Bizon, 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](http://www.ecai.upit.ro)

Nicu Bizon, 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), ISBN 980-07-7559-5, pp. 119-123, Orlando, Florida, USA, July 22 - 25, 2001

7. Memberships to the 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.ilotpe.com](http://www.ilotpe.com)
- University of Pitesti Scientific Bulletin, Series: Electronics and Computer Science, 1453-1119,
- The Sci. Bulletin of Electrical Eng. Faculty – Valahia University, 1843-6188, <http://www.buletinfie.ro>

#### 8. Chair of International conferences

- General chair and proceedings editor of the Int. Conf. on Electronics, Computers and Artificial Intelligence – ECAI, all editions starting with 2010: [www.ecai.upit.ro](http://www.ecai.upit.ro).
- Chair of the World Congress on Sustainable Technologies (WCST-2012): <http://www.wcst.org/>
- Chair of the International Conference on “Technical and Physical Problems of Power Engineering” (ICTPE 2014) [www.ilotpe.com](http://www.ilotpe.com)

#### 9. Membership in the steering and/or technical programme committee (TPC) for several conferences:

- Int Conf on Ind El, Mechatronics, Automation, Computer Syst and Informatics – IMACSI, from 2015
- Int. Conf. on Intelligent Autonomous Agents, Networks and Systems (INAGENTSYS 2014), from 2014
- International Conference on Education (ICOED), from 2013
- IEEE International Conference on Engineering Education - ICEED), from 2013
- IEEE Conference on Clean Energy and Technology (CEAT), from 2013
- Instrumentation, Control and Automation (ICA), from 2013
- IEEE Conference on Control, Systems & Industrial Informatics - ICCSII 2013, from 2013
- IEEE Conference on Clean Energy and Technology, from 2013
- Int. Conf. on Robotics, Biomimetics, Intelligent Computational Systems–ROBINETICS, from 2013
- Int. Conf. on Tech., Informatics, Management, Engineering & Environment (TIME-E 2013), from 2013
- International Conference on ITS Telecommunications (ITST 2012), from 2012
- Int. Symp. on Communication Systems, Networks & Digital Signal Processing (CSNDSP), from 2012
- International Conference on Connected Vehicles & Expo (ICCVE 2012), from 2012
- IEEE Symposium on Industrial Electronics & Applications (ISIEA 2012), from 2012
- IEEE International Conference on Power and Energy (PECON 2012), from 2012
- Int Conf on Intelligent Transportation Systems Telecommunications (ITST-2013), from 2012
- INIMIC 2011, from 2011, <http://www.inmic2011.org>
- International IEEE Conference on Intelligent Systems Design and Applications - ISDA, 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](http://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](http://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 - APPEL, from 2008, <http://appel.zcu.cz>
- Int. IEEE conf. on Electronics, Computers and AI, from 2005, [www.ecai.upit.ro](http://www.ecai.upit.ro)
- Int. conf. Technologies and Power Electronics - TPE08, from 2008, [www.ilotpe.com](http://www.ilotpe.com)
- EU Conf. on Intelligent Systems and Technologies - ECIT, from 2004, [www.iit.tuiasi.ro/ecit2008](http://www.iit.tuiasi.ro/ecit2008)
- Communication Session of the Student Scientific Circles (Sesiunea de Comunicari a Cercurilor Stiintifice Studentesti - SCCSS), from 2015 <http://www.sccss.valahia.ro>

10. Hirsh-index: WOS: 20; Scopus: 22; Google Scholar: h-index =24, i10-index =39 (1510citations; updated in 18.09.2019)

Date 18.09.2019  
Bizon

prof. dr. ing. Nicu






## List of the publications and the research projects: profesor Nicu BIZON

a) N. Bizon, PhD thesis title: "Performance Evaluation of Systems in multi-criteria conditions" ("Evaluarea performantelor sistemelor in conditii multicriteriale"), 1996, PhD in the field of Engineering (Automatic Systems), Polytechnic University of Bucharest, Faculty of Automation.

### b) Books and chapters in books

#### b1) Books published in International Publishing House

1. Naser Mahdavi Tabatabaei, Ersan Kabalci, Nicu Bizon. Microgrid Architectures, Control and Protection Methods. Springer International Publishing, 2019 (aug). eBook ISBN 978-3-030-23723-3; Hardcover ISBN 978-3-030-23722-6; Series ISSN 1612-1287 <https://www.springer.com/in/book/9783030237226> 781 pag
2. Naser Mahdavi Tabatabaei, Sajad Najafi Ravadanegh, Nicu Bizon (Eds). Power Systems Resiliency: Modeling, Analysis and Practice. Springer Verlag London Limited, 2018 (dec); eBook ISBN 978-3-319-94442-5, Hardcover ISBN 978-3-319-94441-8 <https://www.springer.com/in/book/9783319944418> 353 pag
3. Erol Kurt, Nicu Bizon, Necmi Altin, Burak Akin (Eds.). Special Issue on the 4th European Conference on Renewable Energy Systems (ECRES 2016), 28-31 August 2016, Istanbul, Turkey. International Journal of Hydrogen Energy 2017;42(28):17559-18144 (13 July 2017)  
<https://www.sciencedirect.com/journal/international-journal-of-hydrogen-energy/vol/42/issue/28>
4. N. Bizon, N. M. Tabatabaei, Frede Blaabjerg, and Erol Kurt (Ed.), Energy Harvesting and Energy Efficiency: Technology, Methods and Applications, Springer Verlag London Limited, 2017; eBook ISBN: 978-3-319-49875-1; DOI 10.1007/978-3-319-49875-1; Hardcover ISBN 978-3-319-49874-4; Series ISSN 2195-1284 661 pp  
<http://www.springer.com/us/book/9783319498744>
5. N. M. Tabatabaei, N. Bizon, A. J. Aghbolaghi, and Frede Blaabjerg (Ed.), Fundamentals and Contemporary Issues of Reactive Power Control in AC Power Systems, Springer Verlag London Limited, 2017; eBook ISBN: 978-3-319-51118-4, Hardcover ISBN: 978-3-319-51117-7; Series ISSN: 1612-1287 DOI 10.1007/978-3-319-51118-4  
<http://www.springer.com/gp/book/9783319511177>
6. N. Bizon, L. Dascalescu, and N. M. Tabatabaei (Ed.), Autonomous Vehicles: Intelligent Transport Systems and Smart Technologies, Nova Science Publishers Inc., USA, 2014, ISBN: 978-1-63321-324-1 541 pp  
[https://www.novapublishers.com/catalog/product\\_info.php?products\\_id=50365&osCsid=756a848447737596b96d62aa86a64cba](https://www.novapublishers.com/catalog/product_info.php?products_id=50365&osCsid=756a848447737596b96d62aa86a64cba)
7. N. Bizon, N. M. Tabatabaei and Hossein Shayeghi (Ed.), Analysis, Control and Optimal Operations in Hybrid Power Systems - Advanced Techniques and Applications for Linear and Nonlinear Systems, Springer Verlag London Limited, London, UK, 2013. 978-1-4471-5538-6, 978-1-4471-5537-9 ; 394 PAG  
<http://dx.doi.org/10.1007/978-1-4471-5538-6>  
<http://www.springer.com/engineering/control/book/978-1-4471-5537-9>
8. 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). 698 pp  
[https://www.novapublishers.com/catalog/product\\_info.php?products\\_id=36315&osCsid=cce0dd5ced12df6ba9340d8c9d71142b](https://www.novapublishers.com/catalog/product_info.php?products_id=36315&osCsid=cce0dd5ced12df6ba9340d8c9d71142b)
9. N. Bizon (Ed.), Advances in Energy Research: 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). 692 pp  
[https://www.novapublishers.com/catalog/product\\_info.php?products\\_id=22516](https://www.novapublishers.com/catalog/product_info.php?products_id=22516)

#### b2) Chapters in books published in International Publishing House (1 in the last six years)

1. Fernando Georgel Birleanu , Petre Anghelescu , Nicu Bizon , Emil Pricop. Cyber Security Objectives and Requirements for Smart Grid. In Handbook of Smart Grid Communications (Eds. Ersan KABALCI, Yasin KABALCI). Springer Verlag London Limited, 2019, 28 Pages 607-634 <https://www.springer.com/us/book/9789811317675> .
2. 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>

#### b3) Books published in Publishing House recognized by CNCSIS - National Council of Scientific Research in Higher Education

##### b31) Books on research area (in English language) (2 in the last six years)

1. N. Bizon, L. Dascalescu, and N. M. Tabatabaei (Ed.), Autonomous Hybrid Vehicles: Intelligent Transport Systems and Automotive Technologies, Publishing house of the University of Pitești, Pitești, 2013, ISBN 978-606-560-327-1 ; 365 PAG
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3. 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.  
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##### b32) Books on research area (in Romanian language)

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obtaining these skills (Nivelul minimal al competențelor managerilor privind utilizarea calculatorului personal și caile de dobândire, pp. 28-42), Publishing house of the University of Pitești, Pitești, ISBN 978-973-680-260-6.

2. N. Bizon, 2008, Modelling of Inverter Systems supplied by Fuel Cells (Modelarea Sistemelor Invertor alimentate de la Pile de Combustie), 220 pages, Publishing house of the University of Pitești, Pitești, ISBN 978-973690-817-0.
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2. N. Bizon, 2004, Convertoare (Power Converter), 180 pag., Editura MatrixROM, București, ISBN 973-685-836-7.
3. N. Bizon, 2004, Teoria Sistemelor - Teorie și Aplicații (Theory and Control Systems), 185 pag., Editura MatrixROM, București, ISBN 973-685-677-1.
4. N. Bizon, 2002, Dispozitive Electronice de Putere (Power Electronics Devices) , 132 pag., Editura MatrixROM, București, ISBN 973-685-402-7.
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6. N. Bizon, 2002, Structura hardware a calculatorului personal (PC hardware), 250 pag., Editura Universității din Pitești, Pitești, ISBN 973-690-023-1.
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8. N. Bizon – Variatoare de putere (AC-AC converters), 2001, 100 pag., Editura MatrixROM, București, ISBN 973-685-9.
9. N. Bizon, 2001, Mecatronica și tehnologii neconvenționale (Mechatronics and advanced technologies), 150 pag., Ed. MatrixROM, București, ISBN 973-685-301-2.
10. Nicu Bizon, Marioara Abrudeanu, Tiberiu Macarie, Dumitru Chirleşan, Georgeta Chirleşan, Viorel Nicolae, Elena Neagu, 2001, Tehnologia informației și comunicării (Information Technology and Communication), 190 pag., Editura Tehnică, București, ISBN 973-31-2062-6.
11. N. Bizon, 2001, Electronică medicală și inteligența artificială (Medical Electronics and Artificial Intelligence), 250 pag., Editura Universității din Pitești, Pitești, ISBN 973-8212-67-7.
12. N. Bizon, 2000, Electronică Industrială I – Teorie și Aplicații (Industrial Electronics –I), 350 pag., Editura MatrixROM, București, ISBN 973-685-073-0.
13. N. Bizon, 2000, Electronică Industrială II – Teorie și Aplicații (Industrial Electronics –II), 250 pag., Editura MatrixROM, București, ISBN 973-685-118-4.
14. N. Bizon, 2000, Electronică de Putere – Culegere de probleme (Power Electronics – Applications), 150 pag., Editura Universității din Pitești, Pitești, ISBN 973-945-72-5.
15. N. Bizon, 2000, Electronică industrială (Industrial Electronics– theory and applications), 320 pag., Editura Universității din Pitești, Pitești, ISBN 973-945-71-7.
16. E. Sofron, N. Bizon, S. Ionita, R. Raducu, 1999, Sisteme de control fuzzy - modelare și proiectare asistate de calculator (Fuzzy control systems – modelling and designing), 210 pag., Editura All, Bucuresti, ISBN 973-9431-32-1.
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4. Nicu Bizon, Energy Efficiency of Fuel Cell/Renewable Energy Sources Hybrid Power Source with Controlled Fuelling Flows. Renewable Energy, impact factor 4.900; in review
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## c3) Papers in Journals (indexed +B & B by CNCISIS - National Council of Scientific Research in Higher Education)

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## d) Articles / Studies published in conferences

### d1) Articles / Studies published in indexed conference (ISI Web of Knowledge)

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Hoarcă, I.C., Enescu, F.M., Bizon, N. Energy efficiency for renewable energy application, 2018 International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management, SGEM 18(4.1), pp. 325-332 11 October 2018 <https://www.sgem.org/SGEMLIB/spip.php?article12175>

#### **d4) Papers in Proceedings of Conferences/Symposiums**

##### **d41) organized abroad:**

1. Nicu Bizon, Jose Manuel Lopez-Guede, Erol Kurt. Fuel Cell (FC) Hybrid Power System with mitigation of the load demand variability by the FC air flow control. ECRES – 6th European Conference on Renewable Energy Systems, Istanbul, Turkey, 25-27 June 2018, 1380-90.
2. Jose Manuel Lopez-Guede, Nicu Bizon, Mircea Raceanu, Josean Ramos-Hernanz, Unai Fernandez-Gamiz. Efficient neural model of a commercial PEM Fuel Cell. ECRES – 6th European Conference on Renewable Energy Systems, Istanbul, Turkey, 25-27 June 2018, 1343-38
3. Mihai-Catalin Arva, Nicu Bizon, Alin Gheorghita Mazare, Ionescu Laurentiu. Method proposal for efficiency improvement in wireless energy power transfer system with two inductive coupled resonator coils. ECRES – 6th European Conference on Renewable Energy Systems, Istanbul, Turkey, 25-27 June 2018, 425--34
4. Nicu Bizon, Erol Kurt, Mihai Culcer, Mariana Iliescu, Robert Beloiu. EXTREMUM SEEKING CONTROL USED FOR OPTIMAL OPERATION OF WIND TURBINE UNDER TURBULENT WIND GUSTS. ECRES – 5th European Conference on Renewable Energy Systems, Sarajevo, Bosnia and Herzegovina, 27-30 August 2017.
5. Nicu Bizon, Phatiphat Thounthong, Mihai Oproescu. FUEL FLOW REAL-TIME OPTIMIZATION STRATEGY FOR FUEL CELL HYBRID POWER SOURCES WITH AIR FLOW BASED ON LOAD-FOLLOWING. ECRES – 5th European Conference on Renewable Energy Systems, Sarajevo, Bosnia and Herzegovina, 27-30 August 2017.
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8. Șişman George Robert, Bizon Nicu, Oproescu Mihai. On the remote diagnostic of the power source used in telecommunications. Proceedings of Int. conf. Technologies and Power Electronics (TPE16), Sept 2016, Bilbao, Spain ([www.iotpe.com](http://www.iotpe.com)) ISSN 2309-0545 (CD-ROM: ISSN 2309-0553), 26-31.
9. Bizon Nicu, Oproescu Mihai, Șişman George Robert. Predictive Maintenance Prioritization using Fuzzy Graphs. Proceedings of Int. conf. Technologies and Power Electronics (TPE16), Sept 2016, Bilbao, Spain ([www.iotpe.com](http://www.iotpe.com)) ISSN 2309-0545 (CD-ROM: ISSN 2309-0553), 189-193.
10. Nicu Bizon, Phatiphat Thounthong, Marian Raducu, Luminita M. Constantinescu. MODELLING OF THE ASYMPTOTIC PERTURBED EXTREMUM SEEKING CONTROL SCHEME FOR TRACKING OF THE GLOBAL EXTREME. ECRES – 4th European Conference on Renewable Energy Systems, Istanbul, TURKEY, 28-31 August 2016. Proceedings ISBN: 978-605-86911-4-8
11. Nicu Bizon, Erol Kurt. PERFORMANCE ANALYSIS OF THE TRACKING OF THE GLOBAL EXTREME ON MULTIMODAL PATTERNS USING THE ASYMPTOTIC PERTURBED EXTREMUM SEEKING CONTROL SCHEME. ECRES – 4th European Conference on Renewable Energy Systems, Istanbul, TURKEY, 28-31 August 2016. Proceedings ISBN: 978-605-86911-4-8

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13. Nicu Bizon, Mihai Oproescu, Marian Raducu, Luminita Mirela Constantinescu, 2013, On the Search Speed for the Extremum Seeking Control Scheme Based on Band Pass Filter. Part I – Signal Processing in the Control Loop, Proceedings of Int. conf. Technologies and Power Electronics (TPE13), Sept 2013, Istambul, Turkey. ([www.iotpe.com](http://www.iotpe.com)) ISSN 2303-9752 (CD-ROM: ISSN 2303-9760)
14. Nicu Bizon, Mihai Oproescu, Marian Raducu, Luminita Mirela Constantinescu, 2013, On the Search Speed for the Extremum Seeking Control Scheme Based on Band Pass Filter. Part II – performances estimation., Proceedings of Int. conf. Technologies and Power Electronics (TPE13), Sept 2013, Istambul, Turkey. ([www.iotpe.com](http://www.iotpe.com)) ISSN 2303-9752 (CD-ROM: ISSN 2303-9760)
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20. N. Bizon, Ten years of experience in education by continuous training in the University of Pitesti – Romania, Int. Conf. on Science and education of new revival epoch in the global science and education system, pp. 190-192, 9-11 Sept. 2009, Turkmenistan
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#### **d42) organized in Romania**

1. N. Bizon, M. Oproescu, Multiport Power Converters Used in Plug-in Fuel Cell Vehicles – State of the Art, Proceedings of International Conference on Electronics, Computers and Artificial Intelligence - ECAI'11, No. 1, pp. 113-122, University of Pitesti, ISSN 1843–2115 (<http://www.ecai.upit.ro>).
2. N. Bizon, M. Oproescu, Multiport Power Converters Used in Plug-in Fuel Cell Vehicles – Energy efficiency, Proceedings of Int. conf on Electronics, Computers and Artificial Intelligence - ECAI'11, No. 1, pp. 123-130, University of Pitesti, ISSN 1843–2115 (<http://www.ecai.upit.ro>).
3. N. Bizon, E. Sofron, M. Raducu, Low Frequency Ripple Mitigation of the Fuel Cell Inverter System using a Controlled Buck Current Source – Part I: Hysteretic Control, Advances in Intelligent Systems and Technologies - ECIT2010 paper has been published in the ECIT2010 CD proceeding of the 6<sup>th</sup> European Conference on Intelligent Systems and Technologies ([http://www.iit.tuiasi.ro/ecit2010/documents/Program\\_ECIT\\_2010\\_FINAL.pdf](http://www.iit.tuiasi.ro/ecit2010/documents/Program_ECIT_2010_FINAL.pdf))
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8. A. Zafiu, V. Ionescu, N. Bizon, C. Ghita, M. Oproescu, 2009, A Detailed Model for PV Simulation and MPP Tracking with Tree Points, Proceedings of Int. conf on Electronics, Computers and Artificial Intelligence - ECAI'09, No.1, pp. 148-154, University of Pitești, ISSN 1843–2115 (<http://www.ecai.upit.ro>).
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#### **e1) Papers in Journals of the Romanian Academy**

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#### **e2) Papers in international Journals**

1. N. Bizon, M. Oproescu, M. Raducu, L.M. Constantinescu, 2010, International Journals on Technical and Physical Problems of Engineering (IJTPE2010, ISSN 2077-3528), 5(3) 133-141

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#### **e3) Papers in national journals (14)**

#### **f) Patents**

1. N. Bizon, G. Iana, M. Oproescu, Device and method for searching the extremes of power photovoltaic panels (Dispozitiv și metodă de căutare a extremelor de putere pentru panourile fotovoltaice), request A201500228 from 30.03.2015 (under review)

2. N. Bizon, M. Oproescu, G. Iana, Method to optimize the efficiency of hydrogen-based hybrid energy sources (Metodă de optimizare a eficienței surselor hibride de energie bazate pe hidrogen), request A1000793 from 04/10/2017 (under review)

#### **g) R & D projects**

##### **g1) International research projects**

1. Cost-Efficient Data Collection for Smart Grid and Revenue Assurance (CERA-SG), ID: 77594, 2016-19, ERA-Net Smart Grids Plus; (member in project team) <https://www.era-learn.eu/network-information/networks/era-net-smartgridplus/era-net-smart-grids-plus-joint-call-for-proposals/cost-efficient-data-collection-for-smart-grid-and-revenue-assurance>

##### **g2) National research projects**

1. Experimental validation of a propulsion system for a hydrogen fuel cell for a light vehicle - Mobility hydrogen Demonstrator (Validarea experimentală a unui sistem de propulsie cu pile de combustibil cu hidrogen pentru un autovehicul ușor - Demonstrator de Mobilitate cu Hidrogen), PN-III-P2-2.1-PED-2016-1223, 53PED-2017 (project's responsible) [http://uefiscdi.gov.ro/userfiles/file/Inovare/Transfer%20la%20operatorul%20economic/Lista%20proiecte/Rezultate\\_finale\\_PTE.pdf](http://uefiscdi.gov.ro/userfiles/file/Inovare/Transfer%20la%20operatorul%20economic/Lista%20proiecte/Rezultate_finale_PTE.pdf)
2. Concept Development of an Energy Storage Unit Using High Temperature Superconducting Coil for Spacecraft Power Systems (SMESinSpace) (project's responsible) 167 STAR-2017 [https://star.rosa.ro/downloads/C3\\_2016/CDI\\_final.pdf](https://star.rosa.ro/downloads/C3_2016/CDI_final.pdf)
3. Intelligent control algorithms for the Energy Generation Systems (Algoritmi Inteligenți Pentru Controlul Eficient al unui Sistem Invertor Alimentat de la o Pila de Combustie), research grant of CNCSIS no. 570/2006, 2006-2008. (project's responsible) <http://194.102.64.7/GranturiFinalizate/faces/Projects/ProjectsList.jsp>
4. Integrated Energy Generation Systems using renewable sources (Sistem integrat de conversie a energiei din surse regenerabile); beneficiary: AMCSIT, contractor: Institutul National de Cercetare-Dezvoltare pentru Tehnologii Criogenice si Izotopice - ICSI Rm. Valcea, PC 4286, CEEX no. 2354/2006, 2006-2008 (consortium; project's responsible of research team for University of Pitesti: [www.upit.ro](http://www.upit.ro) CEEX226; coordinated by ICSI Rm. Valcea <http://www.icsi.ro/proiecte/ceex226/info.html>). [http://www.cnmp.ro/ceex/comp1\\_2006/oferta.php?id=4286](http://www.cnmp.ro/ceex/comp1_2006/oferta.php?id=4286),

Member in project team for next projects:

1. Research on intelligent control of hybrid electric propulsion system with continuous transmission (Cercetări privind controlul inteligent al unui sistem de propulsie electric hibrid cu transmisie continuă - CVT), PNCD II 4 Parteneriate PC 72209 (3733/1.10.2008): beneficiary: AMCSIT, contractor: Universitatea din Pitesti, 2008-2011; <http://www.electromet.upit.ro> <http://cnmp.ro:8083/pncdi2/program4/2008/main/index.php?&we=a4e9428fad82837902e19b9a12e1443f&wf=detail&id=2731&wchk=7eb4c9dfdecc3bc8535ef71c5b54c83e>
2. Mathematical modeling of electrical activity of neurons and isolated tissue cardiomyocytes with applications in predicting arrhythmias and the response to antiarrhythmic-MYOMODEL (Modelarea matematică a activității electrice a neuronilor și cardiomyocitelor izolate în țesut, cu aplicații în predicția aritmiilor și a răspunsului la antiaritmice- MYOMODEL), PNCD II 4 Parteneriate PC 61010 (1343/1.10.2008): beneficiary: AMCSIT, contractor: Universitatea din București, 2007-2011; <http://myomodel.net>



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3. Intelligente locomotion prosthesis (Proteze locomotorii inteligente – INTELPROT), PNCD II 4 Parteneriate PC 11069 (1379/1.10.2008) : beneficiary: AMCSIT, contractor: Universitatea Politehnica din Bucuresti, 2008-2011; <http://www.intelprot.ro>  
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4. Theoretical and experimental demonstrations of electric and hybrid propulsion systems to develop competitive and sustainable transport systems (Cercetari teoretice si experimentale demonstrative ale sistemelor de propulsie electrica si hibrida pentru dezvoltarea sistemelor de transport competitive si durabile), MEC- PNCDI- AMTRANS, CEEEX no. 5558 X2C31, 2006-2008 (consortium) .  
[http://www.cnmp.ro/ceex/comp1\\_2006/oferta.php?id=5558](http://www.cnmp.ro/ceex/comp1_2006/oferta.php?id=5558)
5. Polymer composite films as a means of electromagnetic shielding in the microwave field (Pelicule polimere în sistem compozit utilizate ca mijloace de ecranare electromagnetica în domeniul microundelor), PC 8003, beneficiary MEC- PNCDI – MATNANTECH, 2006-2008 (consortium) [http://www.cnmp.ro/ceex/comp1\\_2006/oferta.php?id=8003](http://www.cnmp.ro/ceex/comp1_2006/oferta.php?id=8003).
6. Technology-based nanostructured materials for electrochemical double layer capacitors used to store electricity - Supercapacitors (Tehnologie pe baza de materiale nanostructurate pentru condensatori electrochimici cu strat dublu utilizabili la stocarea energiei electrice – Supercondensatori), beneficiary MEC- PNCDI - AMCSIT, 2006-2008 (consortium)  
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7. Integrated System for Mobile User (SIUM – Sistem integrat pentru utilizatorul mobil), beneficiary: Agentia manageriala de cercetare stiintifica, inovare si transfer tehnologic – AMCSIT, contractor: Institutul National de Informatica – ICI, nr. 80/3.10.2005, 2005-2008.  
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8. Analysis, organization and improvement of operation for educational computer networks connected to the Internet (Analiza, organizarea si imbunatatirea functionarii rețelei educationale de calculatoare conectate la internet), Contract de cercetare Nr 26/2001, Program INFOSOC, subprogram INFOSOC 3 – SISTEME; 2001-2003, contractor: ICI Bucuresti (consortium).  
[http://www.cnmp.ro/documente/infosoc/D3\\_Infosoc\\_finantate1.xls](http://www.cnmp.ro/documente/infosoc/D3_Infosoc_finantate1.xls)
9. Modeling, simulation and implementation of microsystems for deterministic processing and neuro-fuzzy signals; applications in communications and process controllers (Modelarea, simularea si implementarea de micro sisteme pentru procesarea deterministă și neuro-fuzzy a semnalelor ; aplicații în comunicații și controlere de proces), research grant of CNCSIS, 1996-1999.

### **g3) Other research projects**

1. Polarity checking circuit for electrolytic capacitors (Modul de verificare a polarității condensatoarelor electrolitice), research project No. 7888/30/11/2001, 01.12.2001 – 01.05.2002, beneficiary: Draxlmaier Serviceleistung, Romania. (project's responsible)

### **h) International projects on Development & Institution Building**

1. Institution Building Project: Continuous formation center MUNTENIA (CFM), Program Tempus JEP 14448 (member in project team), 2000-2004.
2. Institution Building Project: Organizations – Companies – Universities relation center (DROIU), Program Tempus JEP 12243 (member in project team), 1999-2001.

### **j) Educational Research Projects (Erasmus, LdV etc.)**

1. Leonardo da Vinci, Partnerships, LLP-LdV/PAR/2012/RO/125, "DISCOVER A NEW WORKING FIELD" (member in project team)
2. Leonardo da Vinci, Transfer of Innovation, 2013-1-ES1-LEO01-66485, "ONE TEACHER AND ONE STUDENT WORKING WITH PROJECTX (ONE2ONE)" (member in project team)
3. Erasmus+, Cooperation for Innovation and the exchange of good practices, 2015-1-TR01-KA203-021342, "Innovative European Studies on Renewable Energy Systems" (member in project team)
- 4.

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