

**CRITERII CNATDCU – (MO 27.12.2012 Standarde minimale necesare comisia electronica)****Ș.I. dr. ing. MIHAI OPROESCU****A1. Activitatea didactică și profesională****A.1.1. Cărți și capitole în cărți de specialitate în edituri recunoscute****A1.1.1 Internaționale:**

<b>Nume lucrare și autori</b>	<b>Justificare</b>	<b>Număr de puncte</b>
Nicu Bizon, Marian Raducu, Mihai Oproescu Luminita Mirela Constantinescu (2014) “Autonomous Vehicles: Intelligent Transport Systems and Smart Technologies”, ISBN: 978-1-63321-324-1, Nova Science Publishers Inc., USA, 2014	<a href="https://www.novapublishers.com/catalog/product_info.php?products_id=50365&amp;osCsid=c08deabaec646483c33adba4d77c446">https://www.novapublishers.com/catalog/product_info.php?products_id=50365&amp;osCsid=c08deabaec646483c33adba4d77c446</a>	<b>25*1=25</b>
Nicu Bizon, Mihai Oproescu, Marian Raducu, (2013), Analysis, Control and Optimal Operations in Hybrid Power Systems, Advanced Techniques and Applications on Stability, Control and Optimal Operation of the Hybrid Power Systems, Springer Verlag London Limited, London, UK.Electronic ISBN: 978-1-4471-5538-6, Print ISBN: 978-1-4471-5537-9, pp 227-290	<a href="http://link.springer.com/book/10.1007/978-1-4471-5538-6">http://link.springer.com/book/10.1007/978-1-4471-5538-6</a>	<b>25*1=25</b>
Nicu Bizon, Marian Raducu , Mihai Oproescu, (2012) 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).	<a href="https://www.novapublishers.com/catalog/product_info.php?products_id=36315&amp;osCsid=c08deabaec646483c33adba4d77c446">https://www.novapublishers.com/catalog/product_info.php?products_id=36315&amp;osCsid=c08deabaec646483c33adba4d77c446</a>	<b>25*1=25</b>
Nicu Bizon, Mihai Oproescu, (2012) Advanced in Energy Research Distributed Generation System: Integrating Renewable Energy Resources, Nova Science Publishers, ISBN 978-606-560-128-4 (hardcover), ISBN 978—1-61209-991-0, pp. 369-421	<a href="https://www.novapublishers.com/catalog/product_info.php?products_id=22516&amp;osCsid=c08deabaec646483c33adba4d77c446">https://www.novapublishers.com/catalog/product_info.php?products_id=22516&amp;osCsid=c08deabaec646483c33adba4d77c446</a>	<b>25*1=25</b>

## ANEXA 1 Fisa de verificare criterii minimale naționale

Nicu Bizon, M.Oproescu, F.Fattahi, N.M.Tabatabaei, H.S.Abbasi (2012) Advanced in Energy Research Distributed Generation System: Integrating Renewable Energy Resources, Nova Science Publishers, ISBN 978-606-560-128-4 (hardcover), ISBN 978—1-61209-991-0, pp. 483-514	<a href="https://www.novapublishers.com/catalog/product_info.php?products_id=22516&amp;osCsid=c08deabaec646483c33adba4d77c446">https://www.novapublishers.com/catalog/product_info.php?products_id=22516&amp;osCsid=c08deabaec646483c33adba4d77c446</a>	<b>25*1=25</b>
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### A.1.1.2 Naționale

<b>Nume lucrare și autori</b>	<b>Justificare</b>	<b>Număr de puncte</b>
Mihai Oproescu, (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 Pitești, Pitești, ISBN 978-606-560-128-4 (hardcover), ISBN 978-606-560-129-1 (e-book).	Carte propriu zisa	<b>20*1=20</b>
N. Bizon, M. Oproescu, 2007, Conversoare de Putere utilizate în Sistemele de Generare a Energiei, 160 pag, Editura Universității din Pitești, Pitești, ISBN 978-973-690-644-2	Carte propriu zisa	<b>20*1=20</b>

### A.1.2.1 Material didactic / lucrări didactice

<b>Nume lucrare și autori</b>	<b>Justificare</b>	<b>Număr de puncte</b>
Mihai Oproescu, (2014) Conversoare electronice de putere – Îndrumar de laborator, 130pg, Universitatea din Pitești	Disponibil la: ftp://194.102.70.14/EA/EA4/ si in format electronic	<b>10*1=10</b>
Mihai Oproescu, (2014) Surse de putere pentru echipamente de comunicatii – Îndrumar de laborator, 80 pg	Disponibil la: ftp://194.102.70.14/RSTc/RSTc3/ si in format electronic	<b>10*1=10</b>
Mihai Oproescu, (2013) Masurari in electronica si telecomunicatii – Îndrumar de laborator, 100 pg.	Disponibil la: ftp://194.102.70.14/EA/EA2/ si in format electronic	<b>10*1=10</b>
Mihai Oproescu, (2013) Electronica de putere – Indrumar de laborator, 129 pg.	Disponibil la: ftp://194.102.70.14/EA/EA3/ si in format electronic	<b>10*1=10</b>
M. Oproescu, (2013), Considerații metodice privind perfecționarea lecțiilor la disciplinele tehnice de specialitate. Rolul metodelor bazate	Disponibil la: ftp://194.102.70.14/EA/EA2/ Note de curs – Editat pe plan local fara ISBN	<b>10*1=10</b>

pe acțiune practică, 50 pg,		
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**A2. Activitatea de cercetare****A2.1. Articole în reviste cotate și în volumele unor manifestări științifice indexate ISI proceedings**

<b>Nume lucrare și autori</b>	<b>Justificare</b>	<b>Număr de puncte</b>
Bizon, N., Oproescu, M., Raceanu, M. Efficient energy control strategies for a Standalone Renewable/Fuel Cell Hybrid Power Source, ENERGY CONVERSION AND MANAGEMENT, Volume: 90, Pages: 93-110	Web of Science (FI 3,590)	$(25+20*3.59)/3=32,26$
Bizon, N., Radut, M., Oproescu, M., Energy control strategies for the Fuel Cell Hybrid Power Source under unknown load profile, ENERGY, Volume: 86, Pages: 31-4, JUN 15 2015	Web of Science (FI 4,844)	$(25+20*4.844)/3=40,63$
Bizon N, Oproescu Mihai, Raducu M, Constantinescu, LM, On the search speed for the extremum seeking control 2D-schemes. Part I signal processing using orthogonal dither signals, 2013 INTERNATIONAL CONFERENCE ON ELECTRONICS, COMPUTERS AND ARTIFICIAL INTELLIGENCE (ECAI), JUN 27-29, 2013	Web of Science	$(25+20*0.25)/4=7,5$
Bizon N, Oproescu Mihai, M. Raducu, Constantinescu, LM, On the search speed for the extremum seeking control 2D-schemes. Part II - performances estimation, 2013 INTERNATIONAL CONFERENCE ON ELECTRONICS, COMPUTERS AND ARTIFICIAL INTELLIGENCE (ECAI), JUN 27-29, 2013	Web of Science	$(25+20*0.25)/4=7,5$
Bizon N, Oproescu Mihai, Raducu M, 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), pg 104-108, London, ENGLAND	Web of Science	$(25+20*0.25)/3=10$
Bizon N, Oproescu Mihai, Raducu M, 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), pg 109-114, London, ENGLAND	Web of Science	$(25+20*0.25)/3=10$
Bizon N, Oproescu M., Milan Stork, Fuel Cell Hybrid Power Source for Pulsed Current Loads, 2012 INTERNATIONAL CONFERENCE ON APPLIED ELECTRONICS, pg. 25-28, Pilsen, CZECH REPUBLIC	Web of Science	$(25+20*0.25)/3=10$
Bizon N, E. Sofron, Oproescu Mihai, Raducu M. Nonlinear control for buck switching	Web of Science	$(25+20*0.477)/3=11,51$

# ANEXA 1 Fisa de verificare criterii minimale naționale

power supplies using opto-couplers in the stabilization feedback loop, OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS, Volume: 4, Issue: 6, Pages: 788-794	(F.I. 0.477)	
Bizon N, Iana G., Oproescu M, Fuzzy Interpolation of the Average Signal Steps, INTERNATIONAL SYMPOSIUM ON SIGNALS, CIRCUITS AND SYSTEMS, VOLS 1 AND 2, PROCEEDINGS, pg. 213-216, Iasi ROMANIA	Web of Science	$(25+20*0.25)/3=10$
Bizon N, Oproescu Mihai, Raducu M, Fuel Cell Current Ripple Minimization using a bi-Buck Power Interface, 2008 13TH INTERNATIONAL POWER ELECTRONICS AND MOTION CONTROL CONFERENCE, VOL 1-5, pg. 621-628, Poznan, POLAND	Web of Science	$(25+20*0.25)/3=10$
Bizon N, Oproescu Mihai, Raducu M, Fuzzy bang-bang control of a switching voltage regulator, IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR 2008), pg. 192-197, Cluj Napoca, ROMANIA	Web of Science	$(25+20*0.25)/3=10$
Bizon N, Oproescu Mihai, Energy generation system behaviour using a clocked fuzzy peak current control, 2007 European Conference on Power Electronics and Applications, pg. 4194-4201, Aalborg, DENMARK	Web of Science	$(25+20*0.25)/3=10$
Bizon N, E. Sofron, Oproescu Mihai, Intelligent control of the power flows into an energy generation system, 1th World Multi-Conference on Systemics, Cybernetics and Informatics/13th International Conference on Information Systems Analysis and Synthesis, pg. 314-319, Orlando, FL, USA	Web of Science	$(25+20*0.25)/3=10$
Radut Marin, Oproescu Mihai, Multifunctional Integrated Photovoltaic Window with advanced features of Energy Harvesting and Indoor Shading control:Modeling, IEEEExplore, Int. conf on Electronics, Computers and Artificial Intelligence - ECAI'15, <a href="http://ecai.ro/">http://ecai.ro/</a> , ISSN – 1843 – 2115	Web of Science	$(25+20*0.25)/2=15$

## A2.2. Articole publicate în reviste și în volumele unor manifestări științifice indexate în alte baze de date internaționale (BDI)

Nume lucrare și autori	Justificare	Număr de puncte
George Robert Șișman, Mihai Oproescu, Predictive maintenance of power industrial electronic equipment, Journal of Electrical Engineering, Electronics, Control and Computer Science, JEECCS, Volume 1, Issue 2, pages 21-30, 2015	Google Scholar/Academic	$20/2=10$
Andrei I. Bogdan, Nicu Bizon, Mihai Oproescu, On the Chaotic and Periodic Behavior of the Power	Google	$20/3=6,66$

# ANEXA 1 Fisa de verificare criterii minimale naționale

Converter - Part I: The Mathematical Modeling, IEEEExplore, Int. conf on Electronics, Computers and Artificial Intelligence - ECAI'14, <a href="http://ecai.ro/">http://ecai.ro/</a> , ISSN – 1843 – 2115	Scholar/Academic	
Andrei I. Bogdan, Nicu Bizon, Mihai Oproescu, On the Chaotic and Periodic Behavior of the Power Converter - Part II: The Simulation Result, IEEEExplore, Int. conf on Electronics, Computers and Artificial Intelligence - ECAI'14, <a href="http://ecai.ro/">http://ecai.ro/</a> , ISSN – 1843 – 2115	Google Scholar/Academic	<b>20/3=6,66</b>
Nicu Bizon, Mihai Oproescu, Marian Raducu, Luminita Mirela Constantinescu, 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. ( <a href="http://www.iotpe.com">www.iotpe.com</a> ) ISSN 2303-9752 (CD-ROM: ISSN 2303-9760)	Google Scholar/Academic	<b>20/4=5</b>
Nicu Bizon, Mihai Oproescu, Marian Raducu, Luminita Mirela Constantinescu, 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. ( <a href="http://www.iotpe.com">www.iotpe.com</a> ) ISSN 2303-9752 (CD-ROM: ISSN 2303-9760)	Google Scholar/Academic	<b>20/4=5</b>
N. Bizon, M. Oproescu, M. Raducu, L.M. Constantinescu, The extremum seeking control based on band pass filter for the dither signal processed in the control loop, International Journal on “Technical and Physical Problems of Engineering” (IJTPE), IJTPE - Issue 16, Volume 5, Number 3, September 2013 (ISSN 0016-0503-0913), 133-143. 20-IJTPE-Issue16-Vol5-No3-Sep2013-pp133-141.pdf	Google Scholar/Academic	<b>20/4=5</b>
Nicu Bizon, Mihai Oproescu, Multiport Power Converters Used in Plug-in Fuel Cell Vehicles – State of the Art, , Proceedings of Int. conf on Electronics, Computers and Artificial Intelligence - ECAI'11, No. 1, pp. 113-122, Pitești, ISSN 1843–2115 ( <a href="http://www.ecai.upit.ro">http://www.ecai.upit.ro</a> )	Google Scholar/Academic	<b>20/2=10</b>
Nicu Bizon, Mihai 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, Pitești, ISSN 1843–2115 ( <a href="http://www.ecai.upit.ro">http://www.ecai.upit.ro</a> )	Google Scholar/Academic	<b>20/2=10</b>
M. Oproescu, N. Bizon, 2010, Some Aspects about Implementation of an Emulator for the Photovoltaic Panel, University of Pitesti Scientific Bulletin, Series: “Electronics and Computer Science”, ISSN-1453-1119 (B+), 10(2), pp. 57-62	Google Scholar/Academic	<b>20/2=10</b>
Bizon Nicu, M. Oproescu, Control Performances of the Bi-Buck Interface used for Inverter Current Ripple Compensation, International Journals on Technical and Physical Problems of Engineering (IJTPE, ISSN 2077-3528), 1(1) 2010, 5-10, <a href="http://www.iotpe.com/TPE-Journal/IJTPE-2010/IJTPE-2010.html">http://www.iotpe.com/TPE-Journal/IJTPE-2010/IJTPE-2010.html</a>	Google Scholar/Academic	<b>20/2=10</b>
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, Pitești, ISSN 1843–2115 ( <a href="http://www.ecai.upit.ro">http://www.ecai.upit.ro</a> ).	Google Scholar/Academic	<b>20/5=4</b>

# ANEXA 1 Fisa de verificare criterii minimale naționale

M. Oproescu, N. Bizon, E. Sofron, 2009, Efficiency of Current Ripple Passive Filtering Techniques for Inverter System Supplied by A Fuel Cell - Modeling and Simulations, Proceedings of Int. conf on Electronics, Computers and Artificial Intelligence - ECAI'09, No.2, pp. 61-66, Pitești, ISSN 1843–2115 ( <a href="http://www.ecai.upit.ro">http://www.ecai.upit.ro</a> ).	Google Scholar/Academic	<b>20/3=6,66</b>
M. Oproescu, N. Bizon, E. Sofron, 2009, Efficiency of Current Ripple Passive Filtering Techniques for Inverter System Supplied by A Fuel Cell - Experimental Results, Proceedings of Int. conf on Electronics, Computers and Artificial Intelligence - ECAI'09, No.5, pp. 67-74, Pitești, ISSN 1843–2115 ( <a href="http://www.ecai.upit.ro">http://www.ecai.upit.ro</a> ).	Google Scholar/Academic	<b>20/3=6,66</b>
Bizon Nicu, M. Oproescu, Modelling the Bi-Buck Interface for Inverter Current Ripple Compensation, International Journals on Technical and Physical Problems of Engineering (IJTPE, ISSN 2077-3528), TPEJournal-Autumn2009 1(1) 32-37, <a href="http://www.iotpe.com/TPE-Journal/.../IJTPE-Dec2009-No1-Vol1-Pg32-37.pdf">www.iotpe.com/TPE-Journal/.../IJTPE-Dec2009-No1-Vol1-Pg32-37.pdf</a>	Google Scholar/Academic	<b>20/2=10</b>
N. Bizon, E. Sofron, M. Oproescu, 2009, Filtering Techniques of the Inverter Input Current Ripple, University of Pitesti Scientific Bulletin, Series: “Electronics and Computer Science”, ISSN-1453-1119 (B+), 9(1), pp. 74-79,	Google Scholar/Academic	<b>20/3=6,66</b>
N. Bizon, Mihai Oproescu, 2007, Some Aspect Concerning the Fuel Cell Current Ripple as Interaction With An Inverter System, International Conference Second Edition - Electronics, Computers and Artificial Intelligence - ECAI'07, nr. 2/2007, pp. 122-132, Pitești, ISSN 1843–2115, 2007 ( <a href="http://www.ecai.upit.ro">http://www.ecai.upit.ro</a> )	Google Scholar/Academic	<b>20/2=10</b>
N. Bizon, Ionescu Laurentiu, Alin Mazare, Mihai Oproescu, 2007, Analyze of the Feed-Forward Control for a Pure Sine Inverter, International Conference Second Edition - Electronics, Computers and Artificial Intelligence - ECAI'07, nr. 2/2007, pp. 71-79, Pitești, ISSN 1843–2115, 2007 ( <a href="http://www.ecai.upit.ro">http://www.ecai.upit.ro</a> )	Google Scholar/Academic	<b>20/4=5</b>
N. Bizon, Mihai Oproescu, Ionescu Laurentiu, Alin Mazare, 2007, Ultracapacitors Tester with PC Interface, International Conference Second Edition - Electronics, Computers and Artificial Intelligence - ECAI'07, nr. 2/2007, pp. 133-146, Pitești, ISSN 1843–2115, 2007 ( <a href="http://www.ecai.upit.ro">http://www.ecai.upit.ro</a> )	Google Scholar/Academic	<b>20/4=5</b>
N. Bizon, Alin Mazare, Ionescu Laurentiu, Mihai Oproescu, Marian Raducu, 2007, Some Designing Aspects of 1kw Inverter System: DC- DC Converter, International Conference Second Edition - Electronics, Computers and Artificial Intelligence - ECAI'07, nr. 2/2007, pp. 147-156, Pitești, ISSN 1843–2115, 2007 ( <a href="http://www.ecai.upit.ro">http://www.ecai.upit.ro</a> )	Google Scholar/Academic	<b>20/5=4</b>
N. Bizon, Ionescu Laurentiu, Alin Mazare, Mihai Oproescu, Marian Raducu, 2007, Some Designing Aspects of 1kW Inverter System: DC- AC Converter, International Conference Second Edition - Electronics, Computers and Artificial Intelligence - ECAI'07, nr. 2/2007, pp. 157-169, Pitești, ISSN 1843–2115, 2007 ( <a href="http://www.ecai.upit.ro">http://www.ecai.upit.ro</a> )	Google Scholar/Academic	<b>20/5=4</b>

# ANEXA 1 Fisa de verificare criterii minimale naționale

Mihai Oproescu, Vasile V.N. Obreja, Emil Sofron, Dumitru Scheianu, Marian Raducu, Nicu Bizon, Ion Lita, Supercapacitors :Manufacturing Technology, Performance and Applications, International Conference Second Edition - Electronics, Computers and Artificial Intelligence - ECAI'07, pg. 169-179, Pitești, ISSN 1843–2115, 2007 ( <a href="http://www.ecai.upit.ro">http://www.ecai.upit.ro</a> )	Google Scholar/Academic	<b>20/7=2,85</b>
N. Bizon, M. Oproescu, 2006, Control of the DC-DC Converter used into Energy Generation System, Int. conf. Progress in cryogenics and isotopes separation, Proceedings of Int. conf. Progress in cryogenics and isotopes separation, pp. 173-177, ed. by ICSI, Ramnicu Valcea	Google Scholar/Academic	<b>20/2=10</b>
N. Bizon, M. Oproescu, 2006, Modeling and Control of the PEMFC Power Interface, Int. conf. Progress in cryogenics and isotopes separation, Proceedings of Int. conf. Progress in cryogenics and isotopes separation, pp. 155-168, ed. by ICSI, Ramnicu Valcea	Google Scholar/Academic	<b>20/2=10</b>
N. Bizon, E. Sofron, M. Oproescu, 2006, Unity power factor correction using the bi-boost topology with a forward control technique, Proceedings of Int. conf. on Development and Applications Systems (DAS'06), pp. 107-113, Suceava	Google Scholar/Academic	<b>20/3=6,66</b>
N. Bizon, E. Sofron, M. Oproescu, 2006, Power Factor Correction using a Mixed Control Technique, Proceedings of .Int. Symposium on Electrical and Electronics Engineering ISEEE06, pp. 36-39, ed. by University "Dunarea de Jos"	Google Scholar/Academic	<b>20/3=6,66</b>
Bizon Nicu, Sofron Emil, Tutănescu Ion, Oproescu Mihai, Power Factor Corection Using A Bi-Boost Converter For Ouput Power Flow, Proceedings of Int. conf. Technologies and Power Electronics (TPE06), pg. 436-444	Google Scholar/Academic	<b>20/4=5</b>
Bizon Nicu, Sofron Emil, Oproescu Mihai, An Investigations into the Fast-and Slow–Scale Instabilities of an Energy Generation System with a Fuzzy Hysteretic Control, Advances in Intelligent Systems and Technologies Proceedings ECIT2006–4th European Conference on Intelligent Systems and Technologies Iasi, Romania, Septembrie, pg. 21-23	Google Scholar/Academic	<b>20/3=6,66</b>
Bizon N, Oproescu M, Hysteretic Fuzzy Control of the Power Interface Converter, Fuzzy Systems and AI journal-Reports and Letters, ed. by Publishing House of the Romanian Academy (Editors: HN Teodorescu sa), Vol. 10, Nr. 3, pg. 139-158	Google Scholar/Academic	<b>20/2=10</b>
Bizon Nicu, Sofron Emil, Oproescu Mihai, Some Aspects of the PEMFC–Battery Interface Simulation in Automotive Applications, Proceedings of int. conf. CAR, 2005	Google Scholar/Academic	<b>20/3=6,66</b>
Bizon N, Oproescu M, Hysteretic fuzzy control of the boost converter, International Conference Second Edition - Electronics, Computers and Artificial Intelligence - ECAI'05, nr. 1/2005,Pitești, ISSN 1843–2115	Google Scholar/Academic	<b>20/2=10</b>
Bizon N, Oproescu M, Clocked hysteretic fuzzy control of the boost converter, International Conference Second Edition - Electronics, Computers and Artificial Intelligence - ECAI'05, nr. 1/2005,Pitești, ISSN	Google Scholar/Academic	<b>20/2=10</b>

## ANEXA 1 Fisa de verificare criterii minimale naționale

1843–2115		
Bizon Nicu, Sofron Emil, Oproescu Mihai, Instabilities Analysis of an Energy Generation System with a Fuzzy Hysteretic Control, Vol 11,	Google Scholar/Academic	<b>20/3=6,66</b>

### A2.3. Proprietate intelectuală, brevete de invenție, certificate ORDA

#### A2.3.1. Internaționale

#### A2.3.3. Naționale

Nume lucrare și autori	Justificare	Număr de puncte

### A2.4 Granturi / proiecte castigate prin competitie

#### A2.4.1. Director/ responsabil

##### A2.4.1.1. Internaționale

##### A2.4.1.2. Naționale

Nume proiect și membri	Justificare	Număr de puncte
Grant CNCSIS nr 18/1.10.2007 : Modelarea și controlul optim al fluxurilor de putere într-un sistem de generare a energiei folosind pile de combustie, Valoare 8500 lei		<b>10*1=10</b>

#### A2.4.2. Membru în echipă

##### A2.4.2.1. Internaționale

##### A2.4.2.2. Naționale

Nume proiect și membri	Justificare	Număr de puncte
Grant CNCSIS nr. 570 : Algoritmi inteligenți pentru controlul eficient al unui sistem inverter alimentat de la o pila de	<a href="http://194.102.64.7/GranturiFinalizate/faces/Projects/ProjectDetails.jsp">http://194.102.64.7/GranturiFinalizate/faces/Projects/ProjectDetails.jsp</a>	<b>2*3=6</b>



## ANEXA 1 Fisa de verificare criterii minimale naționale

combustie, 2006-2008, Valoare: 69000 RON		
Grant MEC nr. 226/2006 Sistem integrat de conversie a energiei din surse regenerabile; beneficiar: AMTRANS, contractant: Institutul National de Cercetare-Dezvoltare pentru Tehnologii Criogenice si Izotopice - ICSI Rm. Valcea, nr. 2354/.2006, 2006-2008, Valoare: 65000 RON	<a href="http://www.icsi.ro/proiecte/ceex226/info.html">http://www.icsi.ro/proiecte/ceex226/info.html</a> <a href="http://www.cnmp.ro/ceex/comp1_2006/oferta.php?id=4286">http://www.cnmp.ro/ceex/comp1_2006/oferta.php?id=4286</a>	<b>2*3=6</b>
Cercetări teoretice și experimental demonstrative ale sistemelor de propulsie electrică și hibridă pentru dezvoltarea sistemelor de transport competitive și durabile - SEPDUR CEEX-M1-C2-5558 (X2C31), MEC- PNCDI- AMTRANS, 2006-2008, Valoare: 1139258	<a href="http://www.cnmp.ro/ceex/comp1_2006/oferta.php?id=5558">http://www.cnmp.ro/ceex/comp1_2006/oferta.php?id=5558</a>	<b>2*1=2</b>
MATNANTECH- tema: Pelicule polimere în sistem compozit utilizate ca mijloace de ecranare electromagnetica în domeniul microundelor, MEC- PNCDI – MATNANTECH, 2006-2008	<a href="http://www.cnmp.ro/ceex/comp1_2006/oferta.php?id=8003">http://www.cnmp.ro/ceex/comp1_2006/oferta.php?id=8003</a>	<b>2*3=6</b>
Tehnologii pe bază de materiale nanostructurate pentru condensatori electrochimici cu strat dublu utilizabili la stocarea energiei electrice - TEHNANOCONEL”; Contract (cu AMCSIT) nr. 310/13.09.2006. MEC- PNCDI - AMTRANS, 2006-2008. Valoare : 105000 RON	<a href="http://www.cnmp.ro/ceex/comp1_2006/oferta.php?id=4162">http://www.cnmp.ro/ceex/comp1_2006/oferta.php?id=4162</a>	<b>2*3=6</b>
Nr. X2C32 tema Sistem mecanic pentru cuplarea surselor de putere termica si electrica, destinat automobilelor ecologice cu propulsie hibrida, MEC – PNCDI, 2006-2008		<b>2*1=2</b>
Sistem informatic de proiectare, simulare, testare si configurare a sistemelor energetice inteligente de energie regenerabila – SINERG, Contract nr. 22140 / 25.09.2008, Valoare : 35765 Lei		<b>2*2=4</b>
“Proteze locomotorii inteligente – INTELPROT”; Valoare: 1.980.000 din care, 145.000 UPit; Contract nr. 1379, CEEX 2007, Tipul proiectului PC, 2007-2010 (36 luni), Nr. 11_069 /14.09.2007	<a href="http://www.intelprot.ro">http://www.intelprot.ro</a>	<b>2*2=4</b>

**A3. Recunoașterea și impactul activității****A3.1. Citări în cărți, reviste și volume ale unor manifestări științifice****A3.1.1. Cărți, ISI**

Articolul citat / articolul in care s-a făcut citarea	Justificare	Număr de puncte
<b>Bizon N, Oproescu Mihai, Raducu M, Fuel Cell Current Ripple Minimization using a bi-Buck Power Interface, 2008 13TH INTERNATIONAL POWER ELECTRONICS AND MOTION CONTROL CONFERENCE, VOL 1-5, pg. 621-628, Poznan, POLAND</b>  Boddu Somaiaha, Vivek Agarwalb, Suman R. Choudhurya, Siddhartha P. Duttaguptab, K. Govindan, Analysis and comparative study of pulsating current of fuel cells by inverter load with different power converter topologies, International Journal of Hydrogen Energy, Volume 36, Issue 22, November 2011, Pages 15018–15028, Fuel Cell Technologies: FUCETECH 2009	Web of Science	8/3=2,66
<b>Bizon N, Oproescu Mihai, Raducu M, Fuel Cell Current Ripple Minimization using a bi-Buck Power Interface, 2008 13TH INTERNATIONAL POWER ELECTRONICS AND MOTION CONTROL CONFERENCE, VOL 1-5, pg. 621-628, Poznan, POLAND</b>  Richard Charles Smith, Design of a Control Strategy For A Fuel Cell / Battery Hybrid Power Supply, Design of a Control Strategy For a Fuel Cell / Battery Hybrid Power Supply, A Thesis By Richard Charles Smith, Submitted To The Office Of Graduate Studies Of Texas A&M University	Web of Science	8/3=2,66
<b>Bizon N, Oproescu Mihai, Raducu M, Fuel Cell Current Ripple Minimization using a bi-Buck Power Interface, 2008 13TH INTERNATIONAL POWER ELECTRONICS AND MOTION CONTROL CONFERENCE, VOL 1-5, pg. 621-628, Poznan, POLAND</b>  N. Bizon, On tracking robustness in adaptive extremum seeking control of the fuel cell power plants, Applied Energy, Volume 87, Issue 10, October 2010, Pages 3115–3130	Web of Science	8/3=2,66

<p><b>Bizon N, Oproescu Mihai, Raducu M, Fuel Cell Current Ripple Minimization using a bi-Buck Power Interface, 2008 13TH INTERNATIONAL POWER ELECTRONICS AND MOTION CONTROL CONFERENCE, VOL 1-5, pg. 621-628, Poznan, POLAND</b></p> <p>N. Bizon, Nonlinear control of fuel cell hybrid power sources: Part I – Voltage control, Applied Energy, Volume 88, Issue 7, July 2011, Pages 2559–2573</p>	Web of Science	8/3=2,66
<p><b>Bizon N, Oproescu Mihai, Raducu M, Fuel Cell Current Ripple Minimization using a bi-Buck Power Interface, 2008 13TH INTERNATIONAL POWER ELECTRONICS AND MOTION CONTROL CONFERENCE, VOL 1-5, pg. 621-628, Poznan, POLAND</b></p> <p>N. Bizon, DEVELOPMENT OF A FUEL CELL STACK MACRO-MODEL FOR INVERTER CURRENT RIPPLE EVALUATION Rev. Roum. Sci. Techn. – Électrotechn. et Énerg., 55, 4, p. 405–415, Bucarest, 2010</p>	Web of Science	8/3=2,66
<p><b>Bizon N, Iana G., Oproescu, Fuzzy Interpolation of the Average Signal Steps, INTERNATIONAL SYMPOSIUM ON SIGNALS, CIRCUITS AND SYSTEMS, VOLS 1 AND 2, PROCEEDINGS, pg. 213-216, Iasi ROMANIA</b></p> <p>Ying Bai, Dali Wang, On the comparison of fuzzy interpolation and other interpolation methods in high accuracy measurements, 2010 IEEE International Conference on Fuzzy Systems (FUZZ), pg. 1-7, ISSN 1098-7584</p>	Web of Science	8/3=2,66
<p><b>Bizon N, Iana G., Oproescu, Fuzzy Interpolation of the Average Signal Steps, INTERNATIONAL SYMPOSIUM ON SIGNALS, CIRCUITS AND SYSTEMS, VOLS 1 AND 2, PROCEEDINGS, pg. 213-216, Iasi ROMANIA</b></p> <p>Ying Bai, Dali Wang, On the Comparison of Trilinear, Cubic Spline, and Fuzzy Interpolation Methods in the High-Accuracy Measurements, IEEE Transactions on Fuzzy Systems, Vol. 18, Issue 5, 2010, pg 1016-1022, ISSN 1063-6706</p>	Web of Science	8/3=2,66
<p><b>Bizon N, Iana G., Oproescu, Fuzzy Interpolation of the Average Signal Steps, INTERNATIONAL SYMPOSIUM ON SIGNALS, CIRCUITS AND SYSTEMS, VOLS 1 AND 2, PROCEEDINGS, pg. 213-216, Iasi ROMANIA</b></p> <p>Ying Bai, Nailong Guo, Gerald Agbegha, Fuzzy Interpolation and Other Interpolation Methods Used in Robot Calibrations, Journal of Robotics, Vol 2012, Article ID 376293, 9 pages</p>	Web of Science	8/3=2,66

<p><b>Bizon, N., Oproescu, M., Raceanu, M. Efficient energy control strategies for a Standalone Renewable/Fuel Cell Hybrid Power Source, ENERGY CONVERSION AND MANAGEMENT, Volume: 90, Pages: 93-110</b></p> <p>G. Bruni, S. Cordiner, V. Mulone, , V. Rocco, F. Spagnolo, A study on the energy management in domestic micro-grids based on Model Predictive Control strategies, Energy Conversion and Management, Volume 102, 15 September 2015, Pages 50–58</p>	Web of Science	8/3=2,66
<p><b>Bizon, N., Oproescu, M., Raceanu, M. Efficient energy control strategies for a Standalone Renewable/Fuel Cell Hybrid Power Source, ENERGY CONVERSION AND MANAGEMENT, Volume: 90, Pages: 93-110</b></p> <p>Power grand composite curves shaping for adaptive energy management of hybrid microgrids Giaouris, D., Papadopoulos, A.I., Seferlis, P., Voutetakis, S., Papadopoulou, S. Renewable Energy, volume 95, issue , year 2016, pp. 433 - 448</p>	Web of Science	8/3=2,66
<p><b>Bizon, N., Oproescu, M., Raceanu, M. Efficient energy control strategies for a Standalone Renewable/Fuel Cell Hybrid Power Source, ENERGY CONVERSION AND MANAGEMENT, Volume: 90, Pages: 93-110</b></p> <p>Hassan Fathabadi, Fuel cell/back-up battery hybrid energy conversion systems: Dynamic modeling and harmonic considerations, Energy Conversion and Management, Volume 103, October 2015, Pages 573–584</p>	Web of Science	8/3=2,66
<p><b>Bizon, N., Oproescu, M., Raceanu, M. Efficient energy control strategies for a Standalone Renewable/Fuel Cell Hybrid Power Source, ENERGY CONVERSION AND MANAGEMENT, Volume: 90, Pages: 93-110</b></p> <p>S. Nižetića, I. Tolja, A.M. Papadopoulos, Hybrid energy fuel cell based system for household applications in a Mediterranean climate, Energy Conversion and Management, Volume 105, 15 November 2015, Pages 1037–1045</p>	Web of Science	8/3=2,66
<p><b>Bizon, N., Oproescu, M., Raceanu, M. Efficient energy control strategies for a Standalone Renewable/Fuel Cell Hybrid Power Source, ENERGY CONVERSION AND MANAGEMENT, Volume: 90, Pages: 93-110</b></p> <p>Kibria K. Roman, , Jedediah B. Alvey, Selection of prime mover for combined cooling, heating, and power systems based on energy savings, life cycle analysis and environmental consideration, Energy and Buildings, Volume 110, 1 January 2016, Pages 170–181</p>	Web of Science	8/3=2,66
<p><b>Bizon, N., Oproescu, M., Raceanu, M. Efficient energy control strategies for a Standalone Renewable/Fuel Cell Hybrid Power Source, ENERGY CONVERSION AND MANAGEMENT, Volume: 90, Pages: 93-110</b></p> <p>Tareq Alnejailia, Said Drida, Driss Mehdib, Larbi Chrifi-Alaouic, Rafik Belarbid, Aziz Hamdouni, Dynamic</p>	Web of Science	8/3=2,66

# ANEXA 1 Fisa de verificare criterii minimale naționale

control and advanced load management of a stand-alone hybrid renewable power system for remote housing, Energy Conversion and Management, Volume 105, 15 November 2015, Pages 377–392		
<b>Bizon, N., Oproescu, M., Raceanu, M. Efficient energy control strategies for a Standalone Renewable/Fuel Cell Hybrid Power Source, ENERGY CONVERSION AND MANAGEMENT, Volume: 90, Pages: 93-110</b>  Nicu Bizon, Global Maximum Power Point Tracking (GMPPT) of Photovoltaic array using the Extremum Seeking Control (ESC): A review and a new GMPPT ESC scheme, Renewable and Sustainable Energy Reviews, Volume 57, May 2016, Pages 524–539	Web of Science	8/3=2,66
<b>Bizon, N., Oproescu, M., Raceanu, M. Efficient energy control strategies for a Standalone Renewable/Fuel Cell Hybrid Power Source, ENERGY CONVERSION AND MANAGEMENT, Volume: 90, Pages: 93-110</b>  Danijel Pavković, , Mihael Lobrović , Mario Hrgetić , Ante Komljenović, A design of cascade control system and adaptive load compensator for battery/ultracapacitor hybrid energy storage-based direct current microgrid, Energy Conversion and Management, Volume 114, 15 April 2016, Pages 154–167	Web of Science	8/3=2,66
<b>Bizon, N., Oproescu, M., Raceanu, M. Efficient energy control strategies for a Standalone Renewable/Fuel Cell Hybrid Power Source, ENERGY CONVERSION AND MANAGEMENT, Volume: 90, Pages: 93-110</b>  You, Shi; Liu, Zongyu ; Zong, Yi, Model predictive control for power fluctuation suppression in hybrid wind/PV/battery systems, Model predictive control for power fluctuation suppression in hybrid wind/PV/battery Systems, 2015, Danmark	Web of Science	8/3=2,66
<b>Bizon, N., Oproescu, M., Raceanu, M. Efficient energy control strategies for a Standalone Renewable/Fuel Cell Hybrid Power Source, ENERGY CONVERSION AND MANAGEMENT, Volume: 90, Pages: 93-110</b>  Harun Or Rashid Howlader, Hidehito Matayoshi, Tomonobu Senjyu, Distributed generation incorporated with the thermal generation for optimum operation of a smart grid considering forecast error, Energy Conversion and Management, Volume 96, 15 May 2015, Pages 303–314	Web of Science	8/3=2,66

**ANEXA 1 Fisa de verificare criterii minimale naționale**

<p><b>Bizon, N., Oproescu, M., Raceanu, M. Efficient energy control strategies for a Standalone Renewable/Fuel Cell Hybrid Power Source, ENERGY CONVERSION AND MANAGEMENT, Volume: 90, Pages: 93-110</b></p> <p>Mahdi Kiaeea, Andrew Crudena, Petr Chladekb, David Infield, Demonstration of the operation and performance of a pressurised alkaline electrolyser operating in the hydrogen fuelling station in Porsgrunn, Norway, Energy Conversion and Management, Volume 94, April 2015, Pages 40–50</p>	Web of Science	8/3=2,66
<p><b>Bizon, N., Oproescu, M., Raceanu, M. Efficient energy control strategies for a Standalone Renewable/Fuel Cell Hybrid Power Source, ENERGY CONVERSION AND MANAGEMENT, Volume: 90, Pages: 93-110</b></p> <p>João P. Trovãoa, Carlos Henggeler Antunes, A comparative analysis of meta-heuristic methods for power management of a dual energy storage system for electric vehicles, Energy Conversion and Management Volume 95, 1 May 2015, Pages 281–296</p>	Web of Science	8/3=2,66
<p><b>Bizon Nicu, M. Oproescu, Control Performances of the Bi-Buck Interface used for Inverter Current Ripple Compensation, International Journals on Technical and Physical Problems of Engineering (IJTPE, ISSN 2077-3528), 1(1) 2010, 5-10, <a href="http://www.iotpe.com/TPE-Journal/IJTPE-2010/IJTPE-2010.html">http://www.iotpe.com/TPE-Journal/IJTPE-2010/IJTPE-2010.html</a></b></p> <p>N. Bizon, A new topology of fuel cell hybrid power source for efficient operation and high reliability, Journal of Power Sources, Volume 196, Issue 6, 15 March 2011, Pages 3260–3270</p>	Web of Science	8/2=4
<p><b>Bizon N, Oproescu Mihai, Raducu M, Fuzzy bang-bang control of a switching voltage regulator, IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR 2008), pg. 192-197, Cluj Napoca, ROMANIA</b></p> <p>N. Bizon, On tracking robustness in adaptive extremum seeking control of the fuel cell power plants, Applied Energy, Volume 87, Issue 10, October 2010, Pages 3115–3130</p>	Web of Science	8/3=2,66
<p><b>Bizon N, Oproescu Mihai, Raducu M, Constantinescu, LM, On the search speed for the extremum seeking control 2D-schemes. Part I signal processing using orthogonal dither signals, 2013 INTERNATIONAL CONFERENCE ON ELECTRONICS, COMPUTERS AND ARTIFICIAL INTELLIGENCE (ECAI), JUN 27-29, 2013</b></p> <p>N. Bizon, Improving the PEMFC energy efficiency by optimizing the fueling rates based on extremum seeking algorithm, International Journal of Hydrogen Energy, Volume 39, Issue 20, 3 July 2014, Pages 10641–10654</p>	Web of Science	8/4=2
<p><b>N. Bizon, E. Sofron, M. Raducu, Mihai Oproescu, “Nonlinear control for buck switching power supplies</b></p>	Web of	8/4=2

<b>using optocouplers in the stabilization feedback loop”, Optoelectronics and Advanced Materials - Rapid Communications 4(6) (2010) 788 – 794</b>	<b>Science</b>	
N. Bizon, Nonlinear control of fuel cell hybrid power sources: Part II – Current control, Applied Energy, Volume 88, Issue 7, July 2011, Pages 2574–2591		

**A3.1.2. BDI**

<b>Articolul citat / articolul in care s-a făcut citarea</b>	<b>Justificare</b>	<b>Număr de puncte</b>
<b>Bizon Nicu, M. Oproescu, Control Performances of the Bi-Buck Interface used for Inverter Current Ripple Compensation, International Journals on Technical and Physical Problems of Engineering (IJTPE, ISSN 2077-3528), 1(1) 2010, 5-10, <a href="http://www.iotpe.com/TPE-Journal/IJTPE-2010/IJTPE-2010.html">http://www.iotpe.com/TPE-Journal/IJTPE-2010/IJTPE-2010.html</a></b>  A. Boudaghi, B. Tousi, COMPARATIVE STUDY THD AND AMPLITUDE OUTPUT VOLTAGE VIA INVERTED SINUSOIDAL PULSE WIDTH MODULATION TECHNIQUES FOR NINE LEVEL DIODE CLAMPED MULTILEVEL INVERTER, International Journal on “Technical and Physical Problems of Engineering”, (IJTPE), Issue 12, Vol. 4, No. 3, pg. 56-64, ISSN 2077-3528	<b>Google Scholar</b>	<b>4/2=2</b>
<b>Bizon, N., Oproescu, M., Raceanu, M. Efficient energy control strategies for a Standalone Renewable/Fuel Cell Hybrid Power Source, ENERGY CONVERSION AND MANAGEMENT, Volume: 90, Pages: 93-110</b>  Mihaescu Mihai, Multiport converters - a brief review, 7 International Conference on ELECTRONICS, COMPUTERS and ARTIFICIAL INTELLIGENCE – ECAI-2015, IEEE Xplore® database, Pages 27-30, June 2015	<b>Google Scholar</b>	<b>4/3=1,33</b>
<b>Bizon, N., Oproescu, M., Raceanu, M. Efficient energy control strategies for a Standalone Renewable/Fuel Cell Hybrid Power Source, ENERGY CONVERSION AND MANAGEMENT, Volume: 90, Pages: 93-110</b>  Sergio Ignacio Serna Garcés, Carlos Andrés Ramos Paja, Daniel González Montoya, Hybrid linear/non-linear	<b>Google Scholar</b>	<b>4/3=1,33</b>

**ANEXA 1 Fisa de verificare criterii minimale naționale**

adaptive controller for battery charger/discharger in renewable power systems, International Symposium on Power Quality, revistas.unal.edu.co		
<b>Bizon, N., Oproescu, M., Raceanu, M. Efficient energy control strategies for a Standalone Renewable/Fuel Cell Hybrid Power Source, ENERGY CONVERSION AND MANAGEMENT, Volume: 90, Pages: 93-110</b>  Adrian Chmielewski <sup>1</sup> , Kamil Lubikowski <sup>2</sup> , Stanisław Radkowski, ENERGY STORAGE TECHNOLOGIES: REVIEW, PROCEEDINGS OF THE INSTITUTE OF VEHICLES 2(102)/2015, Pages 13-21	<b>Google Scholar</b>	<b>4/3=1,33</b>
<b>Bizon, N., Oproescu, M., Raceanu, M. Efficient energy control strategies for a Standalone Renewable/Fuel Cell Hybrid Power Source, ENERGY CONVERSION AND MANAGEMENT, Volume: 90, Pages: 93-110</b>  C. A. Ramos-Paja ; F. Bolanos ; D. Gonzalez ; F. Ramirez, Reducing the Fuel Consumption of Hybrid Fuel Cell/Photovoltaic Power Systems Using PBIL-Based Reconfiguration, Asia-Pacific Conference on Computer Aided System Engineering (APCASE), July 2015, Pages:90-95	<b>Google Scholar</b>	<b>4/3=1,33</b>
<b>Bizon, N., Oproescu, M., Raceanu, M. Efficient energy control strategies for a Standalone Renewable/Fuel Cell Hybrid Power Source, ENERGY CONVERSION AND MANAGEMENT, Volume: 90, Pages: 93-110</b>  Nicu Bizon, Global maximum power point tracking based on new extremum seeking control scheme, Progress in Photovoltaics: Research and Applications, November 2015,	<b>Google Scholar</b>	<b>4/3=1,33</b>
<b>Bizon, N., Oproescu, M., Raceanu, M. Efficient energy control strategies for a Standalone Renewable/Fuel Cell Hybrid Power Source, ENERGY CONVERSION AND MANAGEMENT, Volume: 90, Pages: 93-110</b>  Mihaescu Mihai, Multiport Converters – a brief review, IEEEExplore, Int. conf on Electronics, Computers and Artificial Intelligence - ECAI'15, <a href="http://ecai.ro/">http://ecai.ro/</a> , ISSN – 1843 – 2115	<b>Google Scholar</b>	<b>4/3=1,33</b>
<b>N. Bizon, Mihai Oproescu, Power Converters for Energy Generation Systems (Convertoare de Putereutilizate in Sistemele de Generare a Energiei), Publishing house of the University of Pitesti, Pitesti, 2007, ISBN 978-973-690-644-2.</b>	<b>Google Scholar</b>	<b>4/2=2</b>



**ANEXA 1 Fisa de verificare criterii minimale naționale**

Hoarcă Ioan Cristian, Marian Raducu, Performance comparison of three MPPT algorithms: aESC, mESC and P&O, IEEEExplore, Int. conf on Electronics, Computers and Artificial Intelligence - ECAI'15, <a href="http://ecai.ro/">http://ecai.ro/</a> , ISSN – 1843 – 2115		
<b>N. Bizon, M. Oproescu, 2007, Convertoare de Putere utilizate in Sistemele de Generare a Energiei, 160 pag, Editura Universității din Pitești, Pitești, ISBN 978-973-690-644-2</b>	<b>Google Scholar</b>	<b>4/2=2</b>
Mihaescu Mihai, Multiport Converters – a brief review, IEEEExplore, Int. conf on Electronics, Computers and Artificial Intelligence - ECAI'15, <a href="http://ecai.ro/">http://ecai.ro/</a> , ISSN – 1843 – 2115		
<b>Bizon Nicu, M. Oproescu, Control Performances of the Bi-Buck Interface used for Inverter Current Ripple Compensation, International Journals on Technical and Physical Problems of Engineering (IJTPE, ISSN 2077-3528), 1(1) 2010, 5-10, <a href="http://www.ijtp.com/TPE-Journal/IJTPE-2010/IJTPE-2010.html">http://www.ijtp.com/TPE-Journal/IJTPE-2010/IJTPE-2010.html</a></b>	<b>Google Scholar</b>	<b>4/2=2</b>
J.A. Ramos Hernanz, .J. Campayo, F. Oterino Echavarri, E. Zulueta, O. Barambones, U. Fernandez Gamiz, J. Sancho Saiz, I. Zamora, CALCULATION AND SIMULATION OF THE MAIN DC-DC CONVERTERS USED IN PHOTOVOLTAIC SYSTEMS, International Journal on “Technical and Physical Problems of Engineering”, (IJTPE), Issue 14, Vol. 5, No. 1, pg. 144-148, ISSN 2077-3528		
<b>Bizon N, Oproescu M, Clocked hysteretic fuzzy control of the boost converter, International Conference Second Edition - Electronics, Computers and Artificial Intelligence - ECAI'05, nr. 1/2005,Pitești, ISSN 1843–2115</b>	<b>Google Scholar</b>	<b>4/2=2</b>
N.Bizon, Intelligent Control of the Energy Generation System, Intelligent Information Systems and Knowledge Management for Energy, Book-Applications for Decision Support, Usage, and Environmental Protection, Kostas Metaxiotis, Hershey, New York		
<b>Bizon N, Iana G., Oproescu, Fuzzy Interpolation of the Average Signal Steps, INTERNATIONAL SYMPOSIUM ON SIGNALS, CIRCUITS AND SYSTEMS, VOLS 1 AND 2, PROCEEDINGS, pg. 213-216, Iasi ROMANIA</b>	<b>Google Scholar</b>	<b>4/3=1,33</b>
Gerald Agbegha, Nailong Guo and Ying Bai, Compare Fuzzy Interpolation Algorithm with Other Interpolation Methods Used in Industrial Applications, 2011, Hawaii University International Conference		

## ANEXA 1 Fisa de verificare criterii minimale naționale

<p><b>Bizon Nicu, Sofron Emil, Oproescu Mihai, An Investigations into the Fast-and Slow–Scale Instabilities of an Energy Generation System with a Fuzzy Hysteretic Control, Advances in Intelligent Systems and Technologies Proceedings ECIT2006–4th European Conference on Intelligent Systems and Technologies Iasi, Romania, Septembrie, pg. 21-23</b></p> <p>Corcau, J.-I., Dinca, L., Numerical modeling of a Dc to Dc boost converter, 2014 International Conference on Applied and Theoretical Electricity (ICATE), pg. 1-6, INSPEC Accession Number: 14791553</p>	<p><b>IEEE Xplore Digital Library</b></p>	<p><b>4/3=1,33</b></p>
<p><b>Mihai Oproescu, N. Bizon, “Some aspects about implementation of an emulator for the Photovoltaic panel”, Scientific Bulletin on Electronics and Computers Science, University of Pitesti, ISSN-1453-1119 (B+), 10(2), pp. 57-62, 2010.</b></p> <p>Hoarcă Ioan Cristian, Marian Raducu, Energy efficiency analysis of various topologies, control techniques and technologies used for photovoltaic panels, IEEEExplore, Int. conf on Electronics, Computers and Artificial Intelligence - ECAI'14, <a href="http://ecai.ro/">http://ecai.ro/</a>, ISSN – 1843 – 2115, Vol. 5, pg. 23-28</p>	<p><b>Google Scholar</b></p>	<p><b>4/2=2</b></p>
<p><b>N. Bizon, E. Sofron, M. Raducu, Mihai Oproescu, “Nonlinear control for buck switching power supplies using optocouplers in the stabilization feedback loop”, Optoelectronics and Advanced Materials - Rapid Communications 4(6) (2010) 788 – 794</b></p> <p>Hoarcă Ioan Cristian, Marian Raducu, Energy efficiency analysis of various topologies, control techniques and technologies used for photovoltaic panels, IEEEExplore, Int. conf on Electronics, Computers and Artificial Intelligence - ECAI'14, <a href="http://ecai.ro/">http://ecai.ro/</a>, ISSN – 1843 – 2115, Vol. 5, pg. 23-28</p>	<p><b>Google Scholar</b></p>	<p><b>4/2=2</b></p>

### A3.2. Prezentări invitate in plenul unor manifestări științifice naționale si internaționale și Profesor invitat

#### A3.2.1. Prezentări invitate in plenul unor manifestări științifice internaționale și Profesor invitat

Manifestarea stiintifica si calitatea	Justificare	Număr de puncte
The II. European Workshop on Renewable Energy Systems, 20-29 SEPTEMBER 2013, Antalya, Turcia	KEYNOTE LECTURERS <a href="http://www.ewres.info/2013/p5.html">http://www.ewres.info/2013/p5.html</a>	<b>10</b>
EWRES - European Workshop on Renewable Energy Systems, 17-28 SEPTEMBER 2012, Antalya, Turcia	KEYNOTE LECTURERS <a href="http://www.ewres.info/2012/p5.html">http://www.ewres.info/2012/p5.html</a>	<b>10</b>

**A3.3. Membru in colectivele de redacție sau comitete științifice al revistelor, organizator de manifestări științifice, internaționale indexate ISI**

**A.3.3.1 ISI**

<b>Manifestarea stiintifica si calitatea</b>	<b>Justificare</b>	<b>Număr de puncte</b>
5 International Conference on ELECTRONICS, COMPUTERS and ARTIFICIAL INTELLIGENCE – ECAI-2013	Program chair, Sections chair Membru in Local Organizing Committee <a href="http://www.ecai.ro">www.ecai.ro</a>	<b>10</b>
7 International Conference on ELECTRONICS, COMPUTERS and ARTIFICIAL INTELLIGENCE – ECAI-2015, IEEE Xplore® database	Program chair, Sections chair Membru in Local Organizing Committee <a href="http://www.ecai.ro">www.ecai.ro</a>	<b>10</b>
2nd International Workshop on Applied Electronics (IWAE-2015)	Organizator <a href="http://www.ecai.ro">www.ecai.ro</a>	<b>10</b>
3rd International Workshop on Systems Safety & Security, IWSSS'2015	Membru International Scientific Committee <a href="http://www.iwsss.org/2015/">http://www.iwsss.org/2015/</a>	<b>10</b>

**A.3.3.2 BDI**

<b>Manifestarea stiintifica si calitatea</b>	<b>Justificare</b>	<b>Număr de puncte</b>

## ANEXA 1 Fisa de verificare criterii minimale naționale

6 International Conference on ELECTRONICS, COMPUTERS and ARTIFICIAL INTELLIGENCE – ECAI-2014, IEEE Xplore® database	Program chair, Sections chair Membru in Local Organizing Committee <a href="http://www.ecai.ro">www.ecai.ro</a>	<b>6</b>
Journal of Electrical Engineering, Electronics, Control and Computer Science	Chief & Executive Web Administrators	<b>6</b>
1st International Workshop on Applied Electronics (IWAE-2014)	Organizator <a href="http://www.ecai.ro">www.ecai.ro</a>	<b>6</b>
8 International Conference on ELECTRONICS, COMPUTERS and ARTIFICIAL INTELLIGENCE – ECAI-2016, IEEE Xplore® database	Program chair, Sections chair Membru in Local Organizing Committee <a href="http://www.ecai.ro">www.ecai.ro</a>	<b>6</b>
3th International Workshop on Applied Electronics (IWAE-2016)	Organizator <a href="http://www.ecai.ro">www.ecai.ro</a>	<b>6</b>
4th International Workshop on Systems Safety & Security, IWSSS'2016	Membru International Scientific Committee <a href="http://www.iwsss.org/2016/">http://www.iwsss.org/2016/</a>	<b>6</b>
The 1st International Conference on Electrical, Instrumentation and Control Engineering (EICE2014), Chicago, Illinois, USA, October 24-25, 2014	Membru Organizing Committee <a href="http://www.eice-conf.org/OrganizingCommittee.aspx">http://www.eice-conf.org/OrganizingCommittee.aspx</a>	<b>6</b>

### A.3.3.3 Nationale si internationale neindexate

<b>Manifestarea stiintifica si calitatea</b>	<b>Justificare</b>	<b>Număr de puncte</b>
4 International Conference on ELECTRONICS, COMPUTERS and ARTIFICIAL INTELLIGENCE – ECAI-2011	Membru in Local Organizing Committee <a href="http://www.ecai.ro">www.ecai.ro</a>	<b>3</b>
3 International Conference on ELECTRONICS, COMPUTERS and ARTIFICIAL INTELLIGENCE – ECAI-2009	Membru in Local Organizing Committee <a href="http://www.ecai.ro">www.ecai.ro</a>	<b>3</b>
2 International Conference on ELECTRONICS, COMPUTERS and ARTIFICIAL INTELLIGENCE – ECAI-207	Membru in Local Organizing Committee <a href="http://www.ecai.ro">www.ecai.ro</a>	<b>3</b>
1 International Conference on ELECTRONICS, COMPUTERS and ARTIFICIAL INTELLIGENCE – ECAI-2005	Membru in Local Organizing Committee <a href="http://www.ecai.ro">www.ecai.ro</a>	<b>3</b>
12 The International Conference on “Technical and Physical	Membru in Scientific Committee	<b>3</b>

## ANEXA 1 Fisa de verificare criterii minimale naționale

Problems of Electrical Engineering” (ICTPE), 7-9 September 2016, Bilbao, Spain, <a href="http://www.iotpe.com/">http://www.iotpe.com/</a>	<a href="http://www.iotpe.com/ICTPE/ICTPE-2016/ScientificCommittee.html">http://www.iotpe.com/ICTPE/ICTPE-2016/ScientificCommittee.html</a>	
11 The International Conference on “Technical and Physical Problems of Electrical Engineering” (ICTPE), September 2015, <a href="http://www.iotpe.com/">http://www.iotpe.com/</a>	Membru in Scientific Committee <a href="http://www.iotpe.com/ICTPE/ICTPE-2015/ScientificCommittee.html">http://www.iotpe.com/ICTPE/ICTPE-2015/ScientificCommittee.html</a>	<b>3</b>
10 The International Conference on “Technical and Physical Problems of Electrical Engineering” (ICTPE), September 2014, <a href="http://www.iotpe.com/">http://www.iotpe.com/</a>	Membru in Scientific Committee <a href="http://www.iotpe.com/ICTPE/ICTPE-2014/ScientificCommittee.html">http://www.iotpe.com/ICTPE/ICTPE-2014/ScientificCommittee.html</a>	<b>3</b>
9 The International Conference on “Technical and Physical Problems of Electrical Engineering” (ICTPE), September 2013, <a href="http://www.iotpe.com/">http://www.iotpe.com/</a>	Membru in Scientific Committee <a href="http://www.iotpe.com/ICTPE/ICTPE-2013/ScientificCommittee.html">http://www.iotpe.com/ICTPE/ICTPE-2013/ScientificCommittee.html</a>	<b>3</b>
8 The International Conference on “Technical and Physical Problems of Electrical Engineering” (ICTPE), September 2012, <a href="http://www.iotpe.com/">http://www.iotpe.com/</a>	Membru in Scientific Committee <a href="http://www.iotpe.com/ICTPE/ICTPE-2012/ScientificCommittee.html">http://www.iotpe.com/ICTPE/ICTPE-2012/ScientificCommittee.html</a>	<b>3</b>
7 The International Conference on “Technical and Physical Problems of Electrical Engineering” (ICTPE), September 2011, <a href="http://www.iotpe.com/">http://www.iotpe.com/</a>	Membru in Scientific Committee <a href="http://www.iotpe.com/ICTPE/ICTPE-2011/ScientificCommittee.html">http://www.iotpe.com/ICTPE/ICTPE-2011/ScientificCommittee.html</a>	<b>3</b>
6 The International Conference on “Technical and Physical Problems of Electrical Engineering” (ICTPE), September 2010, <a href="http://www.iotpe.com/">http://www.iotpe.com/</a>	Membru in Scientific Committee <a href="http://www.iotpe.com/ICTPE/ICTPE-2010/ScientificCommittee.html">http://www.iotpe.com/ICTPE/ICTPE-2010/ScientificCommittee.html</a>	<b>3</b>
5 The International Conference on “Technical and Physical Problems of Electrical Engineering” (ICTPE), September 2009, <a href="http://www.iotpe.com/">http://www.iotpe.com/</a>	Membru in Scientific Committee <a href="http://www.iotpe.com/ICTPE/ICTPE-2009/ScientificCommittee.html">http://www.iotpe.com/ICTPE/ICTPE-2009/ScientificCommittee.html</a>	<b>3</b>
International Journal on Technical and Physical Problems of Engineering (IJTPE) 2009-2015	Membru in Scientific Board <a href="http://www.iotpe.com/IJTPE/ScientificBoard.html">http://www.iotpe.com/IJTPE/ScientificBoard.html</a>	<b>3</b>
The II. European Workshop on Renewable Energy Systems, 20-29 SEPTEMBER 2013, Antalya, Turcia	International Scientific Committee <a href="http://www.ewres.info/2013/p1.html">http://www.ewres.info/2013/p1.html</a>	<b>3</b>
EWRES - European Workshop on Renewable Energy Systems, 17-28 SEPTEMBER 2012, Antalya, Turcia	International Scientific Committee <a href="http://www.ewres.info/2012/p1.html">http://www.ewres.info/2012/p1.html</a>	<b>3</b>

### A3.4. Premii în domeniu

**A3.4.1. Academia Romana, ASTR, academii de ramura, premii internaționale**

**A3.4.2. Premii naționale in domeniu**

# ANEXA 1 Fisa de verificare criterii minimale naționale

## CENTRALIZATOR CRITERII CNATDCU

### OPROESCU MIHAI

#### REZUMAT PE PUNCTAJ

Criterii	Subcriterii	Total puncte	Total	Minimal Conf.
A1. Activitatea didactică și profesională	A1.1. Cărți	125	165	50
	A1.2. Manuale	40		
A2. Activitatea de cercetare	A2.1 Articole reviste cotate ISI	179,4	466,85	250
	A2.2 Articole reviste BDI	241,45		
	A2.3 Brevete de invenție	0		
	A2.4 Granturi/proiecte castigate prin competitie	46		
A3. Recunoașterea și impactul activității	A3.1 Citări în cărți, reviste	85,84	220,84	50
	A3.2 Prezentări în plenul unor manifestări științifice	20		
	A3.3 Membru colective redacție	115		
	A3.4 Premii în domeniu	0		
<b>TOTAL</b>	<b>A= A1+A2+A3</b>	<b>852,69</b>	<b>852,69</b>	
<b>FACTOR DE IMPACT CUMULAT</b>		<b>11,411</b>		<b>3</b>

#### REZUMAT PE CATEGORI

Criterii	Subcriterii	Realizate	Minimal Conf.
A1. Activitatea didactică și profesională	A1.1. Cărți / capitole	7	2
	A1.2. Manuale	5	1
A2. Activitatea de cercetare	A2.1 Articole reviste cotate ISI	13	6
	A2.2 Articole reviste BDI	33	-
	A2.3 Brevete de invenție	0	-
	A2.4 Granturi – director/responsabil	1	1
A3. Recunoașterea și impactul activității	A3.1 Citări în cărți, reviste	39	10
	A3.2 Prezentări în plenul unor manifestări științifice	2	-
	A3.3 Membru colective redacție	26	-
	A3.4 Premii în domeniu	0	-