

Universitatea *Transilvania* din Braşov
Facultatea: Inginerie Electrică şi Ştiinţa Calculatoarelor
Departamentul: Inginerie Electrică şi Fizică Aplicată

Poz. Postului: 15.

Disciplinele postului: Electrotehnică şi maşini electrice, Sisteme de stocare a energiei electrice, Centrale eoliene, Centrale solare şi sisteme hibride de energie, Interfeţe electronice pentru sisteme de putere, Surse de energie.

FIŞA DE VERIFICARE A ÎNDEPLINIRII STANDARDELOR UNIVERSITĂŢII
Conferenţiar, poziţia 15

publicat în Monitorul Oficial al României nr. 662 din data de 24 Noiembrie 2014

Candidat: Luminiţa BAROTE

Data naşterii: 17.11.1982

Funcţia actuală: Şef lucrări

Instituţia: Universitatea Transilvania din Braşov.

1. Studii universitare (licenţă şi masterat)

Nr. crt.	Instituţia de învăţământ superior şi facultatea	Domeniul	Perioada	Titlul acordat
1.	Universitatea Transilvania Braşov, Facultatea de Inginerie Electrică şi Ştiinţa Calculatoarelor	Inginerie Electrică Specializarea: <i>Electrotehnică Generală</i>	Oct. 2000 - Iunie 2005	Inginer diplomat
2.	Universitatea Transilvania Braşov, Facultatea de Inginerie Electrică şi Ştiinţa Calculatoarelor	Inginerie Electrică Specializarea: <i>Management Energetic</i>	Oct. 2005 - Feb. 2007	Diplomă Master

2. Studii de doctorat

Nr. crt.	Instituţia organizatoare de doctorat	Domeniul	Perioada	Titlul ştiinţific acordat
1.	Universitatea Transilvania din Braşov	Inginerie Electrică	Oct. 2005 - Oct. 2009	Doctor inginer

3. Studii şi burse postdoctorale (stagii de cel puţin 6 luni)

Nr. crt.	Instituţia	Domeniul/ Specializarea	Perioada	Tipul de bursă
1.	Universitatea Transilvania din Braşov	Energie	Iunie 2010–Iunie 2013	Burse postdoctorale pentru dezvoltare durabila - POSDRU/89/1.5/S/59323.

4. Realizările profesional-științifice

Calitatea activităților didactice/ profesionale	Din Fișa de evaluare și din Propunerea de dezvoltare a carierei universitare
Lucrări publicate în reviste de specialitate recunoscute național internațional	<ol style="list-style-type: none"> 1. <i>Software Method for Harmonic Content Evaluation of Grid Connected Converters from Distributed Power Generation Systems</i>, Journal of Energy, vol. 66, ISSN: 0360-5442, pp. 401-412, 2014 – FI: 4.159, SRI: 2.327. 2. <i>Control Structure for Single Phase Stand Alone Wind Based Energy Sources</i>, IEEE Transaction on Industrial Electronics, vol. 60, no. 2, ISSN: 0278-0046, pp. 764-772, 2013 – FI: 6.5, SRI: 3.908. 3. <i>Modeling and Operational Testing of an Isolated Variable Speed PMSG Wind Turbine with Battery Energy Storage</i>, Advances in Electrical and Computer Engineering, vol. 12, no. 2, ISSN: 1582-7445, pp. 81-88, 2012 – FI: 0.642, SRI: 0.215. 4. <i>Energy Storage for a Stand-Alone Wind Energy Conversion System</i>, Rev. Roum. Sci. Techn. – Électrotechn. Et Énerg., vol. 55, no. 3, ISSN: 0035-4066, pp. 235-242, 2010 – FI: 0.368, SRI: 0.019. 5. <i>Control System for Small Power Wind Turbines</i>, Annals of the University of Craiova, Electrical Engineering series, no. 34, 2010, vol. II, ISSN: 1842-4805, pp. 89-94, 7-8 Octombrie 2010 – CNCSIS “Clasa B”. 6. <i>Wind energy probability estimation using Weibull distribution function</i>, Annals of the Oradea University, Fascicle of Management and Technological Engineering, Vol. VII(XVII), ISSN: 1583-0691, May 29 – May 30, Baile Felix, Oradea, Romania, 2008, pp. 1896-1905 – CNCSIS “Clasa B+”. 7. <i>Life Cycle Cost Method Calculation for a Small Hybrid System Pv-Wind</i>, Annals of the Oradea University, Fascicle of Management and Technological Engineering, Vol. VI(XVI), ISSN:1583-0691, May 31 - June 1, Baile Felix, Oradea, Romania, 2007, pp. 2276-2281 – CNCSIS “Clasa B+”. 8. <i>MPPT Control of a Variable-Speed Wind Turbine</i>, Bulletin of the Transilvania University of Brasov– Vol.13(48), Series A1, ISSN: 123-9631, Brasov, Romania 2006, pp. 195-201 – CNCSIS “Clasa B”. 9. <i>Two Generators Micro-Grid Based on RES</i>, Proceedings of the 8th International Conference on Applied and Theoretical Electricity, ICATE 2006, ISSN: 1842-4805, Băile Herculane, Romania, October 26-28, 2006, pp. 250-254 – CNCSIS “Clasa B”.
Lucrări prezentate la conferințe naționale/ internaționale în profilul postului	<ol style="list-style-type: none"> 1. <i>Control of Variable Speed PMSG Wind Stand-Alone System</i>, OPTIM 2006 http://optim.8m.com/.

	<ol style="list-style-type: none"> 2. <i>Energy Storage for Stand-Alone Wind Systems</i>, ICIE 2007, http://www.estiatn.net/ICIE2007/ICIE2007_CALL_FOR_PAPERS.pdf 3. <i>Performance Comparison of a LAB – VRB – PEMFC for a wind stand-alone system</i>, SIELMEN 2007, http://elth.ucv.ro/fisiere/anale/2007/13.pdf 4. <i>Stand-Alone Wind System with Vanadium Redox Battery Energy Storage</i>, OPTIM 2008, http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=4594620 5. <i>A new control method for VRB SOC estimation in stand-alone wind energy systems</i> – ICCEP 2009 http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=5204039 6. <i>VRB Modelling for Storage in Stand-Alone Wind Energy Systems</i> – PowerTech 2009, http://ewh.ieee.org/conf/powertech/2009/ 7. <i>Smart Storage Solution for Wind Systems</i>, – PowerTech 2009, http://ewh.ieee.org/conf/powertech/2009/ 8. <i>Li-Ion Modeling for Storage in Stand-Alone Wind Energy Systems</i>, SIELMEN 2009, http://www.sielmen2009.tuiasi.ro/ 9. <i>Stand-Alone Wind Energy System Using a Lead Acid Battery for Energy Storage</i>, SNET 2009, http://snet.elth.pub.ro/snet2009/ 10. <i>Storage Analysis for Stand-Alone Wind Energy Applications</i>, OPTIM 2010, http://www.info-optim.ro/2010/index.php 11. <i>Smart Electrical Energy Storage System for Small Power Wind Turbines</i>, OPTIM 2010, http://www.info-optim.ro/2010/index.php 12. <i>PMSG Wind Turbine System for Residential Applications</i>, SPEEDAM 2010, http://webuser.unicas.it/speedam/default.htm 13. <i>Energy Storage Systems Operating in Autonomous Microgrid</i>, SmartGrid 2010, http://www.stsb.ro/arhiva/SMART-GRID2010/SMART-GRID2010.htm 14. <i>Current control of single-phase inverter for wind turbine applications</i>, ATEE 2011, http://atee2011.elth.pub.ro/ 15. <i>Renewable Hybrid System with Battery Storage for Safe Loads Supply</i>, PowerTech 2011, http://ewh.ieee.org/conf/powertech/2011/. 16. <i>Autonomous micro-grid based on RES</i>, 8th International Conference on Electromechanical and Power Systems – SIELMEN 2011, http://www.em.ucv.ro/sielmen2011 17. <i>Current controller considering harmonics</i>
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	<p><i>compensation for grid connected converter in DPGS applications</i>, Proceedings of the IEEE International Conference on Optimization of Electrical and Electronic Equipments, OPTIM 2012, http://www.info-optim.ro.</p> <p>18. <i>PI current controller for grid connected VSI in DPGS applications</i>, 9th World Energy System Conference – WESC 2012, http://www.wesc.usv.ro/</p> <p>19. <i>VRB model validation in RES applications</i>, European Workshop on Renewable Energy Systems (EWRES), 2013, http://www.ewres.info/.</p> <p>20. <i>Reactive power influence on power quality for grid connected converter in GPGS application</i>, Proceedings of the IEEE International Conference on Optimization of Electrical and Electronic Equipments, OPTIM 2014, http://www.info-optim.ro./index.php.</p>
Volum(e) de specialitate publicat(e) în edituri recunoscute național	<ol style="list-style-type: none"> 1. C. Marinescu, M. Georgescu, L. Clotea, C. P. Ion, I. Șerban, L. Barote, D. M. Valcan, „SURSE REGENERABILE DE ENERGIE. ABORDĂRI ACTUALE”, ISBN 978-973-598-430-4, Editura Universității „Transilvania” din Brașov, 2009. 2. C. Marinescu, I. Serban, L. Clotea, D. Marinescu, C.P. Ion, M. Georgescu, L. Barote, A. Forcos, „REȚELE HIBRIDE CU SURSE REGENERABILE DE ENERGIE. EVOLUȚII MODERNE”, ISBN 978-973-598-949-1, Editura Universității „Transilvania” din Brașov, 2011. 3. L.E. Aciu, D. Bidian, L. Barote, „BAZELE ELECTROTEHNICII: TEORIA CIRCUITELOR ELECTRICE”, ISBN 978-505-19-0277-4, Editura Universității „Transilvania” din Brașov, 2013.

Director de departament,
Prof. dr. ing. Dănuț Nicolae ILEA

Candidat,
Șef lucr. dr. ing. Luminița BAROTE

Îndeplinirea condițiilor de promovare la funcția de **Conferentiar, poziția 15**

Facultatea de Inginerie Electrică și Știința Calculatoarelor

Departamentul de Inginerie Electrică și Fizică Aplicată

Conform OMEN 4204 din 18 Iulie 2013, Anexa 9, Comisia Inginerie Electrică

Condiții minimale			
Domeniu de activitate	Condiții Conferentiar	Punctaj realizat	Justificare
Activitatea didactică/profesională (A1)	Minim 40 puncte	76.05	Anexa 1
Activitatea de cercetare (A2)	Minim 150 puncte	398.39	Anexa 2
Recunoașterea impactului activității (A3)	Minim 30 puncte	324.25	Anexa 3
Total	Minimum 220 puncte	798.69	

Anexa 1

A.1. Activitatea didactică și profesională (A1)

1.1. Cărți și capitole în cărți de specialitate

1.1.1. Cărți cu ISBN/capitole ca autor didactice sau monografii pentru Conferențiar - minim 2

1.1.1.2. nationale nr.pagini/(5*nr.autori)

Nr.p ag	Nr. aut	Pct	
380	7	10.85	C. Marinescu, M. Georgescu, L. Clotea, C. P. Ion, I. Șerban, L. Barote , D. M. Valcan, „ SURSE REGENERABILE DE ENERGIE. ABORDĂRI ACTUALE ”, ISBN 978-973-598-430-4, Editura Universității „Transilvania” din Brașov, 2009.
380	8	9.5	C. Marinescu, I. Șerban, L. Clotea, D. Marinescu, C.P. Ion, M. Georgescu, L. Barote , A. Forcos, „ REȚELE HIBRIDE CU SURSE REGENERABILE DE ENERGIE. EVOLUȚII MODERNE ”, ISBN 978-973-598-949-1, Editura Universității „Transilvania” din Brașov, 2011.
348	3	23.2	L.E. Aciu, D. Bidian, L. Barote , „ Bazele Electrotehnicii: Teoria Circuitelor Electrice ”, ISBN 978-505-19-0277-4, Editura Universității „Transilvania” din Brașov, 2013.

Total **43.55 p**

1.2. Suport didactic

1.2.1. Suport de curs inclusiv electronic pentru Conferențiar – minim 1, nr.pag/(10*nr.autori)_

Nr.p ag	Nr. aut	Pct	
200	1	20	L. Barote , „ Electrotehnică și mașini electrice ”, ISBN 978-505-19-0277-4, Editura Universității „Transilvania” din Brașov, 2014.

Total **20 p**

1.2.2. Îndrumare de laborator /aplicații pentru Conferențiar – minim 1; nr.pag /(20*nr.autori)

Nr.p ag	Nr. aut	Pct	
50	1	2.5	L. Barote , „ Electrical Energy Storage Systems ” – Laboratory Handbook, Editura Universității „Transilvania” din Brașov, 2013.

Total **2.5 p**

1.3. Coordonare de programe de studii, coordonare programe de formare continuă și proiecte educaționale (POS, ERASMUS, etc), 10p (punctaj unic pentru fiecare activitate)

Pct	
10	Coordonator program de studii, Managementul energiei – IFR , din cadrul Departamentului de Inginerie Electrică și Fizică Aplicată, Facultatea de Inginerie Electrică și Știința Calculatoarelor, Universitatea Transilvania din Brașov.

Total **10 p**

Total A1: 76.05 p

Anexa 2

A.2. Activitatea de cercetare (A2)

2.1. Articole în extenso în reviste cotate și în volume proceedings indexate ISI, brevete de invenție – **Minim 5 pentru Conferentiar – (25+20*factor impact) / nr.autori**

Nr.	Nr. aut	Pct	
1	3	10.78	L. Barote , C. Marinescu, I. Serban, <i>Energy Storage for a Stand-Alone Wind Energy Conversion System</i> , Rev. Roum. Sci. Techn. – Électrotechn. Et Énerg., vol. 55, no. 3, pp. 235–242, Bucharest, 2010 – FI: 0.368, SRI: 0.019 .
2	2	18.92	L. Barote , C. Marinescu, <i>Modeling and Operational Testing of an Isolated Variable Speed PMSG Wind Turbine with Battery Energy Storage</i> , Advances in Electrical and Computer Engineering, vol. 12, no. 2, pp. 81–88, Suceava, May 2012 – FI: 0.642, SRI: 0.215 .
3	3	51.66	L. Barote , C. Marinescu, M. N. Cirstea, <i>Control Structure for Single Phase Stand Alone Wind Based Energy Sources</i> , IEEE Transaction on Industrial Electronics, vol. 60, no. 2, pp. 764-772, 2013 – FI: 6.5, SRI: 3.908 .
4	2	54.09	L. Barote , C. Marinescu, <i>Software Method for Harmonic Content Evaluation of Grid Connected Converters from Distributed Power Generation Systems</i> , Journal of Energy, vol. 66, pp. 401-412, March 2014 (acceptat Dec. 2013) – FI: 4.159, SRI: 2.327 .
5	2	12.5	L. Barote , C. Marinescu, <i>Control of Variable Speed PMSG Wind Stand-Alone System</i> , Proceedings of the 10 th International Conference on Optimization of Electrical and Electronic Equipments, OPTIM'06, 18-19 May, Brasov, Romania, 2006, pp. 243-248.
6	5	5	L. Barote , R. Weissbach, R. Teodorescu, C. Marinescu, M. Cirstea, <i>Stand-Alone Wind System with Vanadium Redox Battery Energy Storage</i> , Proceedings of the IEEE International Conference on Optimization of Electrical and Electronic Equipments, OPTIM'08, 22-24 May, Brasov, Romania, 2008, pp. 407 – 412.
7	2	12.5	L. Barote , C. Marinescu, <i>A new control method for VRB SOC estimation in stand-alone wind energy systems</i> , Proceedings of the IEEE International Conference on Clean Electrical Power – Renewable Energy Resources Impact, 9-11 June 2009, Capri, Italia, pp. 248 – 252.
8	3	8.33	L. Barote , C. Marinescu, M. Georgescu, <i>VRB Modelling for Storage in Stand-Alone Wind Energy Systems</i> , Proceedings of the IEEE International Conference – PowerTech 2009, 28 June – 2 July 2009, Bucharest, Romania, pp. 1078-1083.
9	3	8.33	L. Barote , M. Georgescu, C. Marinescu, <i>Smart Storage Solution for Wind Systems</i> , Proceedings of the IEEE International Conference – PowerTech 2009, 28 June – 2 July 2009, Bucharest, Romania, pp. 1476-1481.
			L. Barote , C. Marinescu, <i>Storage Analysis for Stand-Alone Wind Energy Applications</i> , Proceedings of the IEEE International Conference on Optimization of Electrical and

10	2	12.5	Electronic Equipments, OPTIM 2010, 20-22 May, Brasov, Romania, 2010, pp. 1180-1185.
11	4	6.25	M. Georgescu, L. Barote , C. Marinescu, L. Clotea, <i>Smart Electrical Energy Storage System for Small Power Wind Turbines</i> , Proceedings of the IEEE International Conference on Optimization of Electrical and Electronic Equipments, OPTIM 2010, 20-22 May, Brasov, Romania, 2010, pp. 1192-1197.
12	2	12.5	L. Barote , C. Marinescu, <i>Current control of single-phase inverter for wind turbine applications</i> , Proceedings of the IEEE International Conference – Advanced Topics in Electrical Engineering – ATEE, Bucuresti, 12-14 Mai 2011, pp. 205-208.
13	2	12.5	L. Barote , C. Marinescu, <i>Reactive power influence on power quality for grid connected converter in GPGS application</i> , Proceedings of the IEEE International Conference on Optimization of Electrical and Electronic Equipments, OPTIM 2014, Brasov, Romania, 2014.
14	2	12.5	L. Barote , C. Marinescu, <i>METHOD AND SOFTWARE FOR EVALUATING THE CONTENT OF HARMONICS PRODUCED BY CONVERTERS</i> , Patent Number: RO129131-A0, UNIV BRASOV TRANSILVANIA, 2013.

Total **238.23 p**

2.2. Articole în reviste și volumele unor manifestări științifice indexate în alte baze de date internaționale – **Minim 8 pentru Conferentiar – 20 / nr.autori**

Nr.	Nr. aut	Pct	
1	5	4	L. Barote , I. Șerban, C. Ion, C. Marinescu, M. Georgescu, <i>Two Generators Micro-Grid Based on RES</i> , Proceedings of the 8th International Conference on Applied and Theoretical Electricity, ICATE 2006, ISSN 1842-4805, Băile Herculane, Romania, October 26-28, 2006, pp. 250-254.
2	2	10	L. Barote , L. Clotea, <i>MPPT Control of a Variable-Speed Wind Turbine</i> , Bulletin of the Transilvania University of Brasov– Vol.13(48), Series A1, ISSN 123-9631, Brasov, Romania 2006, pp. 195-201.
3	4	5	L. Barote , C. Ion, Maria Antonoaie, C. Marinescu, <i>Energy Storage for Stand-Alone Wind Systems</i> , Proceedings of the 3rd International Conference on Interdisciplinarity in Education ICIE'07, ISBN 978-960-89028-4-8, ISSN 1790-661x, March 15-17, Athens, Greece, 2007.
4	2	10	I. Negrea, L. Barote , <i>Life Cycle Cost Method Calculation for a Small Hybrid System Pv-Wind</i> , Annals of the Oradea University, Fascicle of Management and Technological Engineering, Vol. VI(XVI), ISSN 1583-0691, May 31 – June 1, Baile Felix, Oradea, Romania, 2007, pp. 2276-2281.
5	2	10	L. Barote , I. Serban, <i>Performance Comparison of a LAB – VRB – PEMFC for a wind stand-alone system</i> , Proceedings of the 6th International Conference on Electromechanical and Power Systems, ISSN 1842-4805, October 4-6, Chișinău, Rep. Moldova, 2007, pp. 328-333.
6	2	10	L. Barote , I. Negrea, <i>Wind energy probability estimation using Weibull distribution function</i> , Annals of the Oradea University, Fascicle of Management and Technological Engineering, Vol. VII(XVII), ISSN 1583-0691, May 29 – May 30, Baile Felix, Oradea, Romania, 2008, pp. 1896-1905.
7	2	10	L. Barote , C. Marinescu, <i>Li-Ion Modeling for Storage in Stand-Alone Wind Energy Systems</i> , 7th International Conference on Electromechanical and Power Systems – SIELMEN'09, October 8-9, Iași – Chișinău, Rep. Moldova, 2009, pp. 347-353.
8	2	10	M. Georgescu, L. Barote , <i>Control System for Small Power Wind Turbines</i> , Annals of the University of Craiova, Electrical Engineering series, no. 34, 2010, vol. II, ISSN 1842-4805, pp. 89-94, 7-8 Octombrie 2010.
			L. Barote , C. Marinescu, <i>PMSG Wind Turbine System for Residential Applications</i> ,

9	2	10	Proceedings of the IEEE International Symposium on Power Electronics, Electrical Drives, Automation and Motion, SPEEDAM 2010, 14-16 June, Pisa, Italy, 2010, pp. 772 – 777.
10	2	10	L. Barote , C. Marinescu, <i>Renewable Hybrid System with Battery Storage for Safe Loads Supply</i> , Proceedings of the IEEE International Conference – PowerTech 2011, 19 – 23 June 2011, Trondheim, Norway, pp. 1-5.
11	2	10	L. Barote , C. Marinescu, <i>Autonomous micro-grid based on RES</i> , 8th International Conference on Electromechanical and Power Systems – SIELMEN 2011, 13-15 October, Chişinău, Rep. Moldova, 2011, pp. 202-207.
12	3	6.66	L. Barote , C. Marinescu, R. Teodorescu, <i>Current controller considering harmonics compensation for grid connected converter in DPGS applications</i> , Proceedings of the IEEE International Conference on Optimization of Electrical and Electronic Equipments, OPTIM 2012, 24-26 May, Brasov, Romania, 2012, pp. 899-905.
13	2	10	L. Barote , C. Marinescu, <i>PI current controller for grid connected VSI in DPGS applications</i> , 9 th World Energy System Conference – WESC 2012, 28-30 June 2012, Suceava, Romania, pp. 31 – 39.
14	2	10	C. Marinescu, L. Barote , <i>VRB MODEL VALIDATION IN RES APPLICATIONS</i> , European Workshop on Renewable Energy Systems (EWRES), 2013 , 20-22 SEPTEMBER 2013.

Total **125.66 p**

2.3. Granturi/proiecte câştigate prin competiție

2.3.1. Director/responsabil – Minim 1 pentru Conferentiar

2.3.1.2. naționale: 10*ani de desfășurare

Nr.ani	Pct	
0.25	2.5	Contract de cercetare CNCIS TD nr. 144/2007 – “Centrale eoliene de mică putere și sisteme distribuite de generare”.

Total **2.5 p**

2.3.2. Membru în echipă

2.3.2.1 internationale: 4*ani de desfășurare

Nr.ani	Pct	
2	8	Contract internațional de cercetare tip FP6 nr. 038406/2007-2009 – „Control of renewable integrated systems targeting advanced landmarks – CRISTAL”.

Total **8 p**

2.3.2.2 naționale: 2*ani de desfășurare

Nr.ani	Pct	
3	6	Contract de cercetare CNCIS tip IDEI nr. 134/2007-2010 „Surse regenerabile de energie electrică și conectarea lor în rețele hibride inteligente”.
3	6	Contract de cercetare tip PARTENERIATE nr. 110004/2007-2010 – „Sistem inteligent distribuit pentru managementul resurselor tehnologice ale amenajărilor hidroenergetice – MAREA”.
3	6	Contract de cercetare tip PARTENERIATE nr. 21-062/2007-2010 – „Structura energetică hibridă hidro-eoliană.; modelare și tuning pe stație pilot – HIDROEOL”.
3	6	Contract de cercetare tip PARTENERIATE nr. 22134/2008-2011 „Sistem informatic suport pentru proiectarea, implementarea și controlul fermelor energetice hibride – E-FARM”.

Total **24 p**

Total A2: 398.39 p

A.3. Recunoașterea impactului activității**3.1. Citări în reviste și volumele conferințelor ISI și BDI****3.1.1. ISI (5 / nr.autori ai art. citat)**

Nr crt	Nr. aut	Pct	
1	2	2.5	M. Monfared, S. Golestan, “ Control strategies for single-phase grid integration of small-scale renewable energy sources: A review ”, Journal of Renewable and Sustainable Energy Reviews vol. 16, 2012, pp. 4982–4993 (ISI).
2	2	2.5	Abdorreza Rabiee, Hossein Khorramdel, Jamshid Aghaei, „ A review of energy storage systems in microgrids with wind turbines ”, Journal of Renewable and Sustainable Energy Reviews vol. 18, 2013, pp. 316–326 (ISI).
3	2	2.5	Xin Qiu, Tu Nguyen, M. L. Crow, A. C. Elmore, and B. McMillin, „ Computer Models for Microgrid Applications ”, General Meeting of the IEEE-Power-and-Energy-Society (PES) Detroit, JUL 24-28, 2011, (ISI).
4	2	2.5	Francisco Díaz-González, Andreas Sumper, Oriol Gomis-Bellmunt, Roberto Villafafila-Robles, „ A review of energy storage technologies for wind power applications ”, Journal of Renewable and Sustainable Energy Reviews vol.16, 2012, pp. 2154– 2171, (ISI).
5	5	1	Robert S. Weissbach Remus E. Teodorescu James R. Sonnenmeier, „ Comparison of Time-Based Probability Methods for Estimating Energy Storage Requirements for an Off-Grid Residence ”, Energy 2030 Conference, 2008, pp. 1 – 4, (ISI).
6	5	1	Serban, I.; Teodorescu, R.; Guerrero, J. M.; et al., „ Modeling of an Autonomous Microgrid for Renewable Energy Sources Integration ”, 35th Annual Conference of the IEEE Industrial Electronics Porto, PORTUGAL, NOV 03-05, 2009, pp. 4311-4316, (ISI).
7	5	1	Weissbach, Robert S.; Cheers, Jason M., „ Markov Based Estimation of Energy Storage Requirements Accounting for Seasonal Variations ”, IEEE-Power-and-Energy-Society General, Minneapolis, MN, JUL 25-29, 2010 (ISI).
8	5	1	Hu, Guozhen; Duan, Shanxu; Tao, Cai; et al., „ Techno-economical Analysis of Vanadium redox and Lead-acid batteries in Stand-alone Photovoltaic systems ”, 2nd IEEE International Symposium on Power Electronics for Distributed Generation Systems (PEDG) JUN 16-18, 2010, pp. 868-872 (ISI).
9	5	1	Gimenez Alvarez, Juan Manuel; Gomez Targarona, Juan Carlos, „ WIND GENERATION USING DIFFERENT GENERATORS CONSIDERING THEIR IMPACT ON POWER SYSTEM ”, DYNA-COLOMBIA, Volume: 78, Issue: 169, Pages: 95-104, OCT 2011, (ISI).
10	5	1	Dunn, B; Kamath, H , Tarascon, JM, „ Electrical Energy Storage for the Grid: A Battery of Choices ”, SCIENCE, Volume: 334, Issue: 6058, Pages: 928-935, NOV 18 2011 (ISI).
11	5	1	Ma Yiwei; Yang Ping; Guo Hongxia, „ Distributed Generation System Development Based on Various Renewable Energy Resources ”, 30th Chinese Control Conference, Yantai, JUL 22-24, pp. 6203-6207, 2011 (ISI).
			Jiang, Bingnan; Fei, Yunsi, „ Dynamic Residential Demand Response and Distributed

12	5	1	Generation Management in Smart Microgrid with Hierarchical Agents ", 1st International Conference on Smart Grid and Clean Energy Technologies (ICSGCE), SEP 27-30, Energy Procedia, Volume: 12, 2011 (ISI).
13	5	1	Hu, Guozhen; Duan, Shanxu; Cai, Tao; et al. „ Sizing Analysis of PV System with VRB Storage ”, ELEKTRONIKA IR ELEKTROTECHNIKA, Issue: 2, pp. 43-48, 2012 (ISI).
14	5	1	Francisco Díaz-González, Andreas Sumper, Oriol Gomis-Bellmunt, Roberto Villafafila-Robles, „ A review of energy storage technologies for wind power applications ”, Journal of Renewable and Sustainable Energy Reviews vol.16, 2012, pp. 2154– 2171, (ISI).
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93	3	1	Patsamatla, Haritha ; Karthikeyan, V.; Gupta, Rajesh, Universal maximum power point tracking in wind-solar hybrid system for battery storage application , 2014 International Conference on Embedded Systems (ICES), 3-5 July 2014, pp. 194 – 199. (BDI – IEEE Explore) .

Total **90 p**

3.3. Recenzor pentru reviste și manifestări naționale și internaționale

3.3.1. ISI – 10 p (punctaj unic pentru fiecare activitate)

Nr. crt	Pct	Recenzii reviste internaționale
1	10	ECM-D-12-01269 , Comparative analysis of two configurations for DFIG-based wind turbine integrating battery energy storage system, Energy Conversion and Management , 2012.
2	10	PEL-2013-0690 A control strategy for a Hybrid Autonomous Power System (HAPS) with a Battery Management Scheme (BMS), IET Power Electronics , 2013
3	10	PEL-2013-0353.R2 Sub-Proportion Control of Double-Input Buck Converter for a Fuel-Cell/Battery Hybrid Power Supply System, IET Power Electronics , 2013.
4	10	13-TIE-2906 Hardware in the loop simulation for testing the performance of energy storage systems in renewable energy applications, IEEE Transaction on Industrial Electronics , 2014.
5	10	14-TIE-0845 Dynamic performance improvement and peak power limiting using ultracapacitor storage system for hydraulic mining shovels, IEEE Transaction on Industrial Electronics , 2014.
6	10	EGY-D-14-02752 Modified PI controller for a bidirectional boost input stage equipped with an LCL filter, Journal of Energy, Elsevier , 2014.

Total **60 p**

3.3.2. BDI – 6 p (punctaj unic pentru fiecare activitate)

		Recenzii conferințe internaționale
1	6	RD-000531 Overview of Recent Grid Codes for PV Power Integration, IEEE OPTIM , 2012.
2	6	RD-001139 Design and Implementation of an Autonomous Wind/PV/Diesel/Battery Power System, IEEE OPTIM , 2012.
3	6	RD-002348 Short Term Energy Storage for Grid Support in Wind Power Applications, IEEE OPTIM , 2012.
4	6	RD-003344 Development of a thermal simulation and testing model for a superior lithium polymer battery, IEEE OPTIM , 2012.
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5	6	Transient and Steady-State load Performance of Six -Phase Self-Excited Induction Generator, IEEE OPTIM , 2012.
6	6	RD-000094 Comsol Multiphysics Modelling and Analysys of a High Temperature PEM Fuel Cell, IEEE OPTIM , 2014.
7	6	RD-001872 Availability Evaluation of Wind as a Repairable System, IEEE OPTIM , 2014.
8	6	RD-001449 Effect of a semi-cylindrical wind shield on the power output of a vertical axis wind turbine, IEEE OPTIM , 2014.
9	6	RD-002631 Lithium Ion Battery Chemistries from Renewable Energy Storage to Automotive and Back-up Power Applications - An Overview, IEEE OPTIM , 2014.

Total **54 p**

Criterii opționale

3.6. Premii

- premii naționale în domeniu, 5p.

Nr. crt	Pct	Premii
1	5	Premiere CNCSIS pentru articole cotate ISI în reviste cu factor de impact mare, 2012.
2	5	Premiere CNCSIS pentru articole cotate ISI în reviste cu factor de impact mare, 2014.
3	5	Diplomă de excelență din partea Consiliului Județean Brașov pentru rezultate deosebite în activitatea de cercetare științifică, 2013.

Total **15 p**

3.7. Membru în academii, organizații, asociații profesionale de prestigiu, naționale și internaționale

3.7.4. Asociații profesionale

- internaționale – 5p

Membru IEEE din 2007 până în prezent.

Total **5p**

Total A3: 324.25 p

Data: 15.12.2014

Candidat:

Șef lucr. dr. ing. Luminița BAROTE

Director de departament:

Prof. dr. ing. Dănuț Nicolae ILEA