

**FODOREAN Daniel - Rezultatele activității didactice și de cercetare -- Decembrie 2013**

<b>Indicatori</b>	<b>A1</b>	<b>A2</b>	<b>A3</b>	<b>A1+A2+A3</b>
<b>Punctaj minim solicitat</b>	<b>80</b>	<b>300</b>	<b>60</b>	<b>440.00</b>
<b>Punctaj realizat</b>	<b>136.88</b>	<b>701.54</b>	<b>120.42</b>	<b>958.83</b>

**Verificarea criteriilor cantitative:** **Carti minim 4; realizat 4. / Suport de curs minm 2, din care 1 ca prim autor; realizat 2, din care 1 ca prim autor. / Îndrumător laborator minim 2, din care 1 ca prim autor; realizat 3, din care 2 ca prim autor. / Articole și brevete indexate ISI minim 11; realizat 23. / Articole indexate BDI minim 16; realizat 26. / Director de granturi câștigate minim 2; realizate 3. / Citări în ISI și BDI minim 40; realizat 65.**

**Activitate didactică și profesională (A1)**
**PUNCTAJ criteriul A1: 136.875**

	Tip	Autor(i), titlu, editură, dată publicare, ISBN (nr.pagini)	Nr. pagini	Nr. autori	Coefficient categorie (Național:1/5; Internațional: 1/2; Suport curs: 1/10; Îndrumător laborator: 1/20)	Indicatori kpi (Punctaj)	
<b>Activitate didactică și profesională - A1</b>	<b>1.1 Carte de specialitate</b>	1. <u>D.Fodorean</u> , F.Jurca, M.Ruba, D.C. Popa. Motorization Variants for Light Electric Vehicles – design, magnetic, mechanical and thermal aspects, AlmaMater, Cluj-Napoca, June 2013, ISBN 978-606-504-160-8.	172	4	0.2	<b>8.6</b>	
		2. <u>D.Fodorean</u> : Global Design and Optimization of a Permanent Magnet Synchronous Machine used for Light Electric Vehicle, Intech, June 2011 – <i>book chapter in monograph: Electric Vehicles – Modelling and Simulations</i> , edited by Serif Soylu, ISBN 978-953-307-477-1.	24	1	0.5	<b>12</b>	
		3. <u>D.Fodorean</u> : Inițiere în programarea procesoarelor digitale de semnal din clasa TMS320LF2407(A), UT Press, Cluj-Napoca, Romania, 2010, ISBN 978-973-662-533-6.	210	1	0.2	<b>42</b>	
		4. L.Szabo, <u>D.Fodorean</u> : Simularea ansamblului convertor-masina utilizat in sisteme electromecanice. UT Press 2009 ISBN 978-973-662-480-3.	210	2	0.2	<b>21</b>	
	<b>1.2 Suport Didactic</b>						
	<b>1.2.1 Suport de curs</b>	1. <u>D.Fodorean</u> , Szabo: Modelarea mașinilor electrice și a convertoarelor statice - suport de curs, disponibil la <a href="http://memm.utcluj.ro">http://memm.utcluj.ro</a>	308	2	0.1	<b>15.4</b>	
		2. L. Szabo, <u>D.Fodorean</u> : Mașini electrice speciale - suport de curs disponibil la <a href="http://memm.utcluj.ro">http://memm.utcluj.ro</a>	691	2	0.1	<b>34.55</b>	
	<b>1.2.1 Îndrumător laborator</b>	1. I-A.Viorel, <u>D.Fodorean</u> , F.N.Jurca: Masini Electrice Speciale – Aplicatii, Mediamira 2007, Cluj-Napoca. ISBN 978-973-713-183-6.	114	3	0.05	<b>1.9</b>	
		2. <u>D.Fodorean</u> , C. Martiş: Mentenanța sistemelor industriale – Aplicatii, UTCluj 2011.	26	2	0.05	<b>0.65</b>	
		3. <u>D.Fodorean</u> , L. Szabo: Modelarea sistemelor electromecanice – Aplicatii, UTCluj 2012.	31	2	0.05	<b>0.775</b>	
					<b>TOTAL A1: 136.875</b>		

Activitate de cercetare	Autor(i), titlu, editură, dată publicare, ISSN (DOI)	Factor impact	Nr. autori	Tip articol	Indicatori kpi (Punctaj)
		(2012, conform ISI Web of Knowledge)			
2.1 Articole în extenso în reviste cotate și în volume proceedings indexate ISI Thomson Reuters, brevete de invenție	1. <u>D.Fodorean</u> : "Study of a High Speed Motorization with Improved Performances dedicated for an Electric Vehicle", IEEE Transactions on Magnetics, vol.50, n°2, Feb.2014, ISSN 0018-9464, DOI 10.1109/TMAG.2013.2279240.	1.363	1	Articol publicat in jurnal indexat în ISI Thomson Reuters	52.26
	2. <u>D. Fodorean</u> , L. Idoumghar, and L. Szabo: "Motorization for electric scooter by using permanent magnet machines optimized based on hybrid metaheuristic algorithm", IEEE Transaction on Vehicular Technology, vol.62, n.1, pp.39-49, January 2013, ISSN 0018-9545.	1.921	3		21.14
	3. A. R. Matyas, K. A. Biro, <u>D. Fodorean</u> , "Multi-Phase Synchronous Motor Solution for Steering Applications", Progress In Electromagnetics Research, vol.131, pp.63-80, September 2012, ISSN 1559-8985.	5.298	3		43.65
	4. M. Ruba, <u>D. Fodorean</u> , "Analysis of Fault-Tolerant Multiphase Power Converter for a Nine-Phase Permanent Magnet", IEEE Transaction on Industry Applications, vol.48, n.6, pp.2092-2101, Nov.-Dec. 2012, ISSN 0093-9994.	1.657	2		29.07
	5. <u>D.Fodorean</u> , L.Idoumghar, A.N'diaye, D.Bouquain and A.Miraoui: "Simulated Annealing Algorithm for the Optimisation of an Electrical Machine", IET Electric Power Applications, vol.6, n°9, pp.735-742, November 2012, ISSN 1751-8660.	1.173	5		9.69
	6. <u>D. Fodorean</u> , D.C. Popa, M. Ruba, "On the Fault-Tolerance of Permanent Magnet Synchronous Machines and Drives used in Hybrid Vehicle Application", International Review of Electrical Engineering, vol.7, n.2, pp.3795-3803, March-April 2012, ISSN 1827-6660.	0	3		8.33
	7. T.Raminosoa, B.Blunier, <u>D. Fodorean</u> and A.Miraoui, " Design and optimisation of a Switched Reluctance Motor driving a Compressor for a PEM Fuel Cell System for Automotive Applications", IEEE Transactions on Industrial Electronics, vol.57, n°9, pp.2988-2997, Sept.2010, ISSN 0278-0046.	5.16	4		32.05
	8. <u>D.Fodorean</u> , S.Giurcea, A.Djerdir, A.Miraoui: "Numerical Approach for Optimum Electromagnetic Parameters of Electrical Machines used in Vehicle Traction Applications", Energy Conversion and Management, vol.50, pp.1288-1294, Mai 2009, ISSN 0196-8904.	2.216	4		17.33
	9. S.Giurcea, <u>D.Fodorean</u> , G. Cirrincione, A.Miraoui, M. Cirrincione : "Multimodel Optimization Based on the Response Surface of the Reduced FEM Simulation Model With Application to a PMSM ", IEEE Transactions on Magnetics, vol.44, n°9, pp.2153-2157, Sept.2008, ISSN 0018-9464.	1.363	5		10.45

Activitate de cercetare - A2

<b>2.1 Articole în extenso în reviste cotate și în volume proceedings indexate ISI Thomson Reuters, brevete de invenție</b>	10. <u>D.Fodorean</u> , I.A.Viorel, A.Djerdir, A.Miraoui: "Performances for a Synchronous Machine with Optimized Efficiency while Wide Speed Domain is Attempted", IET Electric Power Applications, vol.2, n°1, pp.64-70, January 2008, ISSN 1751-8660.	1.173	4	Articol publicat in jurnal indexat în ISI Thomson Reuters	<b>12.12</b>
	11. <u>D.Fodorean</u> , A.Djerdir, I.A.Viorel, A.Miraoui: "A Double Excited Synchronous Machine for Direct Drive Application - Design and Prototype Tests", IEEE Transactions on Energy Conversion, vol.22, n.3, pp.656-665, September 2007, ISSN 0885-8969.	2.272	4		<b>17.61</b>
	12. <u>D. Fodorean</u> , L. Szabo: "Study of Permanent Magnet Synchronous Machine Topologies for Electric Scooter Application", Advanced Engineering Forum, vol.8-9, pp.397-404, March 2013, ISSN 2234-9898.	0	2		<b>12.50</b>
	1. M. RUBA, <u>D. FODOREAN</u> , "Mașină cu reluctanță comutată cu autoventilație internă la rotor", nr. A00884/2012 - in ISI thomson ca: Machine with commuted reluctance motor, with internal rotor self-ventilation .... Accession Nr: DIIDW:2013L53290.	0	2	Brevet indexat în ISI Thomson Reuters	<b>12.50</b>
	1. <u>D.Fodorean</u> , D. Bouquain, M.B. Camara and A.Miraoui, "Energy Management on board of a Reduced Scale Hybrid Automobile", Proceedings of the International Electrical Machines and Drives Conference, May 2009, pp.197-201, ISBN 9781424442515.	0	4	Articol publicat in volum proceedings indexat in ISI Thomson Reuters	<b>6.25</b>
	2. <u>D.Fodorean</u> , L. Szabo and A.Miraoui: "Generator Solutions For Stand Alone Pico-Electric Power Plants", Proceedings of the International Electrical Machines and Drives Conference, May 2009, pp.434-438, ISBN 9781424442515.	0	3		<b>8.33</b>
	3. L.Szabo, M.Ruba, <u>D.Fodorean</u> : "Simple converter structure for fault tolerant motors", Proceedings of the IEEE International Conference on Automation Quality and Testing Robotics – AQTR'08, Cluj-Napoca, Romania, 22-25 May 2008, pp.244-249, ISBN:978-1-4244-2576-1.	0	3		<b>8.33</b>
	4. <u>D.Fodorean</u> , M.Ruba, L.Szabo, A.Miraoui: "Comparison of the Main Types of Fault-Tolerant Electrical Drives used in Automobile Applications", Proceedings of the IEEE International Symposium on Power Electronics, Electrical Drives, Automation and Motion – SPEEDAM'08, Ischia, Italy, 11-13 June 2008, pp.895-900, ISBN 978-1-4244-1664-6.	0	4		<b>6.25</b>
	5. M.B.Camara, <u>D.Fodorean</u> , H.Gualous, D; Bouquain, A.Miraoui: "Hybrid Sources Control for Electric Drives Traction Applications", Proceedings of the IEEE International Symposium on Power Electronics, Electrical Drives, Automation and Motion – SPEEDAM'08, Ischia, Italy, 11-13 June 2008, pp.744-749, ISBN 978-1-4244-1664-6.	0	5		<b>5.00</b>
	6. <u>D.Fodorean</u> , A.Miraoui: "Permanent Magnets Thermal Operation Limits in a Hybrid Excited Synchronous Machine used on Wide Speed Applications", Proceedings of the 11th IEEE International Conference on Optimization of Electrical and Electronic Equipment – OPTIM'08, Brasov, Romania, 22-24 May 2008, pp.21-26, ISBN 978-973-131-028-2.	0	2		<b>12.50</b>

2.1 Articole în extenso în reviste cotate și în volume proceedings indexate ISI Thomson Reuters, brevete de invenție	7. L.Szabo, M.Ruba, <u>D.Fodorean</u> : "Study on a Simplified Converter Topology for Fault Tolerant Motor Drives", Proceedings of the 11th IEEE International Conference on Optimization of Electrical and Electronic Equipment – OPTIM'08, Brasov, Romania, 22-24 May 2008, pp.197-202, ISBN 978-973-131-028-2.	0	3	Articol publicat in volum proceedings indexat in ISI Thomson Reuters	8.33
	8. <u>D.Fodorean</u> , A.Djerdir, A.Miraoui, I.A.Viorel: "FOC and DTC Techniques for Controlling a Double Excited Synchronous Machine", Proceedings of the IEEE International Electric Machines and Drives Conference – IEMDC'07, Antalya, Turkey, 3-5 May 2007, pp.1258-1263, ISBN:1-4244-0743-5.	0	4		6.25
	9. <u>D.Fodorean</u> , I.A.Viorel, A.Djerdir, A.Miraoui: "Mechanical and Thermal Designing Aspects for a PM Synchronous Machine with Wound Rotor", Int. Aegean Conf. on Electric Machines, Power Electronics and Electromotion Joint Conference - Electromotion'07, Bodrun, Turkey, 10-12 Sept. 2007, pp.502-506, ISBN 978-975-93410-2-2.	0	4		6.25
	10. I.A.Viorel, R.Munteanu, <u>D.Fodorean</u> , L.Szabo: "On the possibility to use a Hybrid Synchronous Machine as an Integrated Starter-Generator", Proc. of the 5th IEEE International Conference on Industrial Technology -ICIT '06, Mumbai, India, 15-17 Dec. 2006, pp. 1195-1200, ISBN 1-4244-0726-5.	0	4		6.25
	1. Claudia Martis, <u>D. Fodorean</u> , A. Popp, R. Gyselinck, "Coupled Electromagnetic Structural Analysis of a Permanent Magnet Synchronous Machine", Electromotion, vol.20, n°1-4 (2013), pp.42-47, ISSN 1223-057X.	0	4		Articol publicat in jurnal indexat BDI
	2. <u>D.Fodorean</u> and A. Miraoui, "Rapid design of permanent magnet synchronous machines (original title in French: Dimensionnement rapide des Machines Synchrones à Aimants Permanents (MSAP))", Technique de l'Ingénieur, Paris, France, 2009, Document D3554 – 24 pages, ISSN:1963-062X.	0	2	10.00	
	3. <u>D.Fodorean</u> , I.A.Viorel, A.Djerdir and A.Miraoui: "On a Double-Excited Synchronous Motor with Wide Speed Range, Numerical and Experimental Results", Iranian Journal of Electrical and Computer Engineering, vol.5, n°1, Winter-Spring 2006, pp.63-68, ISSN 1682-0053	0	4	5.00	
	4. J. Lepagnet, L. Idoumghar, <u>D. Fodorean</u> , "Hybrid Imperialist Competitive Algorithm with Simplex approach: Application to Electric Motor Design", IEEE International Conference on Systems, Man, and Cybernetics, Manchester, UK, 13-16 October 2013, pp.2454-2459.	0	3	Articol publicat in volum proceedings indexat in BDI	6.67
	5. M. Ruba, <u>D. Fodorean</u> , Design, analysis and torque control of low voltage high current SRM for small automotive applications, IEEE EUROCON 2013 Conference, Zagreb, Croatia, July 1-4, 2013, pp.1499-1503, ISBN:978-1-4673-2232-4/13.	0	2		10.00
	6. F. Jurca, <u>D. Fodorean</u> , Analysis and Control of an Axial Flux Motor for Small Electric Traction System, IEEE EUROCON 2013, Zagreb, Croatia, July 1-4, 2013, pp.1044-1048, ISBN:978-1-4673-2232-4/13.	0	2		10.00

**2.2 Articole în reviste și în volume unor manifestări științifice indexate în baze de date internaționale**

7. <u>D. Fodorean</u> , L. Szabo, "Control of a permanent magnet synchronous motor for electric scooter application", International Symposium on Power Electronics, Electrical Drives, Automation and Motion - SPEEDAM 2012, Sorrento, Italy, June 20-22, 2012, pp.1178-1181, ISBN-978-1-4673-1300-1.	0	2
8. M. Ruba, L. Szabo, <u>D. Fodorean</u> , "Design and analysis of low voltage high current SRM for small automotive applications", International Symposium on Power Electronics, Electrical Drives, Automation and Motion - SPEEDAM 2012, Sorrento, Italy, June20-22 2012, pp.341-346, ISBN-978-1-4673-1300-1.	0	3
9. F. Jurca, <u>D. Fodorean</u> , "Axial Flux Interior Permanent Magnet Synchronous Motor for Small Electric Traction Vehicle", International Symposium on Power Electronics, Electrical Drives, Automation and Motion - SPEEDAM 2012, Sorrento, Italy, June20-22 2012, pp.365-368, ISBN-978-1-4673-1300-1.	0	2
10. F. Jurca, C. Martis, <u>D. Fodorean</u> , "Analysis of a radial flux synchronous machine with outer rotor for integrated starter-alternator", International Symposium on Power Electronics, Electrical Drives, Automation and Motion - SPEEDAM 2012, Sorrento-Italy, June 20-22, 2012, pp.496-500, ISBN-978-1-4673-1300-1.	0	3
11. <u>D.Fodorean</u> , M.Ruba, D.C.Popa and A.Miraoui: "Fault Tolerant Permanent Magnet Machines used in Automobile Applications", Proc. of the 19th International Conference on Electrical Machines, 6-8 September 2010, Rome, Italy, pp.1-6, ISBN 978-1-4244-4175-4.	0	4
12. L.Idoumghar, <u>D.Fodorean</u> and A.Miraoui: "Using Hybrid Constricted Particles Swarm and Simulated Annealing Algorithm for Electric Motor Design", Proc. of the 14th Biennial IEEE Conference on Electromagnetic Field Computation, Chicago, Illinois, USA, May 2010.	0	3
13. <u>D.Fodorean</u> , I.A.Viorel, A.Djerdir, A.Miraoui: "Improved Efficiency for an In-Wheel Motor in Large Speed Operating", Proceedings of the 12th IEEE Conference on Electromagnetic Field Computation, Miami, Florida-USA, 29-03 May,2006, Digest-Book, pp.313, ISBN 1-4244-0319-7.	0	4
14. <u>D. Fodorean</u> , F. Jurca, C. Oprea, L. Szabo: "Permanent Magnet Synchronous Machines with Improved Energetic Performances and Reduced Torque Ripples used for Electric Vehicles", Proceedings of the 3rd International Conference on Clean Electrical Power, 14-16 June 2011, pp.289-292.	0	4
15. F. Jurca, Claudia S. Martis, C. Oprea, <u>D. Fodorean</u> : "Claw-Pole Machine Design and Tests for Small Scale Direct Driven Applications", Proceedings of the 3rd International Conference on Clean Electrical Power, 14-16 June 2011, pp.237-242.	0	5
16. C. Oprea, Claudia S. Martis, F. Jurca, <u>D. Fodorean</u> , L. Szabo: "Permanent Magnet Linear Generator for Renewable Energy Applications: Tubular vs. Four-Sided Structures", Proceedings of the 3rd International Conference on Clean Electrical Power, 14-16 June 2011, pp.588-592.	0	5

Articol publicat in volum proceedings indexat in BDI

**10.00**

**6.67**

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**2.2 Articole în reviste și în volume unor manifestări științifice indexate în baze de date internaționale**

17. <u>D.Fodorean</u> , A.N'diaye, D.Bouquain and A.Miraoui: "Characterization and control of a permanent magnet synchronous motor used in vehicle application", Proceedings of the IEEE International Conference on Automation Quality and Testing Robotics, 28-30 May 2010, pp.1-6, ISBN9781424467242.	0	4	Articol publicat in volum proceedings indexat în BDI	<b>5.00</b>
18. L.Idoumghar, <u>D.Fodorean</u> , A.Miraoui: "Simulated Annealing Algorithm for Multi-Objective Optimization: Application to Electric Motor Design", Proc. of the 29th IASTED International Conference: Modeling, Identification and Control'10 February 2010, pp.190-196.	0	3		<b>6.67</b>
19. <u>D. Fodorean</u> , Study of a High Speed Motorization with Improved Performances dedicated for an Electric Vehicle, The 19th Conference on the Computation of Electromagnetic Fields, Hungary, June 30-July 4, 2013, PA6-22.	0	1		<b>20.00</b>
20. D.C. Popa, <u>D. Fodorean</u> , Analysis of a High Speed Induction Machine used for the Propulsion of an Electric Vehicle, The 19th Conf. on the Computation of Electromagnetic Fields, Budapest, Hungary, June 30-July 4, 2013, PA6-12.	0	2		<b>10.00</b>
21. <u>D. Fodorean</u> , D.C. Popa, F. Jurca, M. Ruba: "Optimizing the Design of Radial/Axial PMSM and SRM used for Powered Wheel-Chairs", Proc. of the Int. Conference on Electrical, Computer, Electronics and Communication Engineering (ICECECE'11), Paris, France, 14-16 November 2011, pp.120-125.	0	4		<b>5.00</b>
22. T.Raminosa, B.Blunier, <u>D.Fodorean</u> , A. Miraoui: "Design and Comparison of High Speed Switched and Synchronous Reluctance Machines to Drive the Compressor of an Automotive PEM Fuel Cell", Proceedings of the IEEE International Conference on Electrical Machines – ICEM'08, Vilamoura, Portugal, 6-9 September 2008, paper ID 792, ISBN: 978-1-4244-1736-0.	0	4		<b>5.00</b>
23. <u>D.Fodorean</u> , S. Giurgea, I.A.Viorel, A.Djerdir, A.Miraoui: "Adequate Parameters Determination for Three Types of Electric Machines with Enlarged Speed Domain via an Optimization Procedure and Magnetic Field Calculation", Proceedings of the 16th Conference on the Computation of the Electromagnetic Fields, Aachen, Germany, 24-28 July 2007, pp.371-372	0	5		<b>4.00</b>
24. S.Giurgea, <u>D.Fodorean</u> , G.Cirincione, A.Miraoui, M.Cirincione: "Multi Model Optimization Strategies Applied to a PMSM", Proceedings of the 16th Conference on the Computation of the Electromagnetic Fields - COMPUMAG'07, Aachen, Germany, 24-28 July 2007, pp.1129-1130.	0	5		<b>4.00</b>
25. <u>D.Fodorean</u> , I.A.Viorel, A.Djerdir, A.Miraoui: "Wide Speed Control of a Hybrid Excited Synchronous Machine", Proceedings of the 17th International Conference on Electrical Machines, Chania, Greece, 2-5 Sep. 2006, pp. 290, on CD.	0	4		<b>5.00</b>
26. I.A.Viorel, <u>D.Fodorean</u> , A.Viorel, L.Szabó: "Stand-Alone Double Excited Synchronous Generator Operating on a Variable Load", Proceedings of the International Conference on Power Electronics, Intelligent Motion and Power Quality, Nürnberg-Germany, 30May-1June2006,pp.675-680 ISBN3928613436	0	4		<b>5.00</b>

2.3 Granturi /proiecte câștigate prin competiție		Director(1) /membru(0)	Ani derulare	Coeficient contract: <b>Director:</b> Național (10) / Internațional (20); <b>Membru:</b> Național (2) / Internațional (4)		Indicatori kpi (Punctaj)
<b>2.3.1 Director /responsabil</b>	1. Project name: Hardware-in-the-Loop Modular Platform for Testing the Energy Management of Competitive & Highly-Efficient Hybrid-Electric Vehicles. PCCA grant, code 191/2012. Project manager: Daniel FODOREAN. Approved state budget for July 2012 – June 2015: 2 809 700lei (+ 949 200 lei private cofinancing).	1	3		10	<b>30.00</b>
	2. Vehicul Hibrid Inteligent pentru Transportul Individual al Persoanelor cu Mobilitate Redusă). PN II-CNCSIS, TE-250, project number 32/28.07.2010. Manager: Daniel FODOREAN. Budget for 28 July 2010 – 27 July 2013: 813 700lei.	1	3		10	<b>30.00</b>
	3. Proiectarea si controlul unei masini sincrone dublu excitate. Funder: National Agency for Science, Technology and Innovation (CNCSIS); Grant type TD-39, grant number nr: 33532/2002-2005. Project manager: D. Fodorean. Budget 9 900 lei.	1	3		10	<b>30.00</b>
<b>2.3.2 Membru în echipă</b>	1. Design, Modelling And Testing Tools For Electrical Vehicles Powertrain Drives, 324345/2012, tip FP7 IAPP, 2013-2016 - Project manager: prof. Martis Claudia.	0	4		4	<b>16.00</b>
	2. Optimal Low-Noise Energy-Efficient Electrical Machines and Drives for Automotive Applications 324329/2012,FP7 IAPP,2013-2016.Manager Martis C.	0	4		4	<b>16.00</b>
	3. Advanced Reluctance Motors for Electric Vehicle Applications - ARMEVA, Collaborative Project – Small or Medium-Scale Focused, 2013-2016, research project (CP-FP). 2013-2016. Project manager: prof. Martis Claudia.	0	4		4	<b>16.00</b>
	4. Advanced Electric Powertrain Technology - ADEPT, 607361/2013, tip FP7 ITN, 2013-2016 (www.adept-itn.eu). Project manager: prof. Martis Claudia	0	4		4	<b>16.00</b>
	5. Automotive Low-Noise Electrical Machines and Drives Optimal Design and Development. Beneficiar UEFISCDI, contract PCCA181/2012. Durată: 2012-15. Manager Prof. Marțiș Claudia.	0	3		2	<b>6.00</b>
	6. Mașini cu reluctanță comutată electronic destinate aplicațiilor auto avansate, Contract de colaborare științifică și tehnologică bilaterală româno-slovacă dintre Universitatea din Zilina (Republica Slovacia) și UTCN. Finanțatori: UEFISCDI și Agenția pentru Cercetare și Dezvoltare din Republica Slovacă. Durata 2013-2014, contract tip Capacități modulul III (nr.647/15.04.13). Manager. Prof. Szabo Lorand.	0	3		2	<b>6.00</b>
<b>2.4 Contracte de cercetare (valoare echivalentă minim 2000€)</b>	1. "Design of two types of special electrical machine". Industry project between Technical University of Cluj-Napoca and XANTOS (Switzerland). Manager: Daniel FODOREAN. Project duration: 1 March – 31 May 2011. Budget: 15 387 €.	1	0.25		5	<b>1.25</b>
	2."Assistance for the manufacturing and the testing phases of special electrical machines". Industry project between Technical University of Cluj-Napoca and HYTEN (Switzerland). Manager: Daniel FODOREAN. Duration: 1 July-31 December 2011. Budget: 6 486 €.	1	0.5		5	<b>2.50</b>
				<b>TOTAL A2:</b>		<b>701.54</b>



**Recunoașterea și impactul activității (A3)**
**PUNCTAJ criteriul A3: 120.42**

	Tip	Referința articolului care citează	Nr. autori articol citat	Coef. publicația care citează (5-ISI, 3-BDI)	Referință articol citat	Indicatori kpi (Punctaj)
Recunoașterea și impactul activității - A3	3.1 Citări în reviste și volumele conferințelor indexate ISI și BDI	1. Amara, Y., Vido, L., Gabsi, M., Hoang, E., Hamid Ben Ahmed, A., Lecrivain, M., "Hybrid Excitation Synchronous Machines: Energy-Efficient Solution for Vehicles Propulsion", IEEE Transactions on Vehicular Technology, pp.2137-2149, Vol. 58 Issue: 5, Jun 2009, ISSN 0018-9545.	4	5	D.Fodorean , A.Djerdir, I.A.Viorel, A.Miraoui: "A Double Excited Synchronous Machine for Direct Drive Application - Design and Prototype Tests", IEEE Transactions on Energy Conversion, vol.22, n.3, pp.656-665, September 2007, ISSN 0885-8969.	1.25
		2. Yee-Pien Yang, Cheng-Ju Wu, "Design of a Flux-Shunt Permanent Magnet DC Motor With Hybrid Magnetomotive Force and Anti-Demagnetization Property", IEEE Trans. on Magnetics, pp.3920-3927, Vol.46, nr.11, Nov. 2010, ISSN 0018-9464.	4	5		1.25
		3. Fukami, Tadashi Hayamizu, Takahito Matsui, Yasuhiro Shima, Kazuo Hanaoka, Ryoichi Takata, Shinzo "Steady-State Analysis of a Permanent-Magnet-Assisted Salient-Pole Synchronous Generator", IEEE Transactions on Energy Conversion, Vol.25, Iss.2, pp.388, 2010, ISSN 0885-8969.	4	5		1.25
		4. Boldea, I. ; Coroban-Schramel, V. ; Andreescu, G.-D. ; Blaabjerg, F. ; Scridon, S. ; BEGA Starter/Alternator—Vector Control Implementation and Performance for Wide Speed Range at Unity Power Factor Operation, IEEE Transactions on Industry Applications, Jan.-feb. 2010 , Vol.46, nr.1 , pp.150-158, ISSN 0093-9994.	4	5		1.25
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		7. Lin, H.; Liu, X.; Zhu, Z.Q.; Fang, S.; Analysis and control of a dual-stator hybrid excitation synchronous wind generator. IET Electric Power Applications, Sept.2011, Vol.5 Is:8, pp.628-635, ISSN:1751-8660.	4	5		1.25
		8. Hosoi, T.; Watanabe, H.; Shima, K.; Fukami, T.; Hanaoka, R.; Takata, S.; Demagnetization Analysis of Additional Permanent Magnets in Salient-Pole Synchronous Machines with Damper Bars Under Sudden Short Circuits; IEEE Transactions on Industrial Electronics, Vol.59, Issue 6, June 2012, pp.2448-2456 ISSN 0278-0046.	4	5		1.25



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9. Yamazaki, K.; Nishioka, K.; Shima, K.; Fukami, T.; Shirai, K.; Estimation of Assist Effects by Additional Permanent Magnets in Salient-Pole Synchronous Generators; IEEE Transactions on Industrial Electronics, Vol.59, Issue 6, June 2012, pp.2515-2523 ISSN 0278-0046.	4	5
10. Amara, Y., Hlioui, S., Belkaira, R., Barakat, G., Gabsi, M.; Comparison of open circuit flux control capability of a series double excitation machine and a parallel double excitation machine; IEEE Transactions on Vehicular Technology 60 (9), Eptember 2011, pp. 4194-4207, ISSN 0018-9545.	4	5
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20. Hlioui, S.; Amara, Y.; Hoang, E.; Lecrivain, M.; Gabsi, M. "Overview of hybrid excitation synchronous machines technology", <i>Electrical Engineering and Software Applications (ICEESA), 2013 International Conference on</i> , pp:1-10.	4	3	D.Fodorean , A.Djerdir, I.A.Viorel, A.Miraoui: "A Double Excited Synchronous Machine for Direct Drive Application - Design and Prototype Tests", IEEE Transactions on Energy Conversion, vol.22, n.3, pp.656-665, September 2007, ISSN 0885-8969.	0.75
21. Boldea, I.; Coroban-Schramel, V.; Andreescu, G.; Scridon, S.; Blaabjerg, F. "BEGA Starter/Alternator - Vector Control Implementation and Performance for Wide Speed Range at Unity Power Factor Operation", <i>Industry Applications Society Annual Meeting, 2008. IAS '08. IEEE, On page(s): 1 - 8.</i>	4	3		0.75
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6. Arias, A., Rain, X., Hilairet, M., Enhancing the flux estimation based sensorless speed control for switched reluctance machines, Electric Power Systems Research, Vol.104, 2013, pp.62-70, ISSN 0378-7796.	4	5		<b>1.25</b>
7. M.J. Navardía, B.Babaghorbania, A. Ketabi: Efficiency improvement and torque ripple minimization of Switched Reluctance Motor using FEM and Seeker Optimization Algorithm. Energy Conversion and Management, Vol.78, February 2014, pp.237–244, ISSN 0196-8904.	4	5		<b>1.25</b>
8. Lei Shen; Jianhua Wu; Shiyou Yang "Optimization of variable speed switched reluctance motor using the torque-speed performance map", Electrical Machines and Systems, 2011 International Conference on, pp: 1 - 3.	4	3		<b>0.75</b>
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2. D.-C. Popa, V.-I. Gliga, and L. Szabo, Theoretical and Experimental Study of a Modular Tubular Transverse Flux Reluctance Machine, Progress In Electromagnetics Research, Vol. 139, 41-55, 2013, ISSN 1559-8985.	3	5		<b>1.67</b>
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4. S. Kahourzade, A. Gandomkar, A. Mahmoudi, N.A. Rahim, W.P. Hew, M.N. Uddin, "Design optimization and analysis of AFPM synchronous machine incorporating power density, thermal analysis, and back-EMF THD", Progress in Electromagnetics Research, vol.136, 2013, pp.327-367, ISSN 1559-8985.	3	5		<b>1.67</b>
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2. Nguyen P.; Hoang E.; Gabsi M.; Performance Synthesis of Permanent Magnet Synchronous Machines during the Driving Cycle of a Hybrid Electric Vehicle, IEEE Trans. on Vehicular Technology, 2011, vol.60, nr.5, pp.1991-1998, ISSN 0018-9545.	4	5		<b>1.25</b>
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1. Thounthong, P., Raël, S. The benefits of hybridization: An investigation of fuel cell/battery and fuel cell/supercapacitor hybrid sources for vehicle applications (2009) IEEE Industrial Electronics Magazine, 3 (3), pp. 25-37 ISSN: 1932-4529.	5	5	M.B.Camara, <u>D.Fodorean</u> , H.Gualous, D; Bouquain, A.Miraoui: " Hybrid Sources Control for Electric Drives Traction Applications ", Proc. of the IEEE International SPEEDAM, Ischia, Italy, 11-13 June 2008, pp.744-749.	<b>1</b>
2. Thounthong, P., Rael, S.: The benefits of hybridization. Industrial Electronics Magazine, IEEE (Volume:3 , Issue: 3 ) , Date of Publication: Sept. 2009, Page(s):25 - 37 ISSN 1932-4529.	5	5		<b>1</b>
1. Ionel, D.M., Popescu, M., "Finite-Element Surrogate Model for Electric Machines With Revolving Field—Application to IPM Motors", IEEE Trans. on Industry Applications, pp.2424 - 2433, Vol.46 Issue: 6, Nov.-Dec. 2010, ISSN 0093-9994.	5	5	S.Giurgea, <u>D.Fodorean</u> , G. Cirrincione, A.Miraoui, M. Cirrincione : " Multimodel Optimization Based on the Response Surface of the Reduced FEM Simulation Model With Application to a PMSM ", IEEE Trans. on Magnetics, vol.44, n°9, pp.2153-2157, Sep.2008, ISSN 0018-9464.	<b>1</b>
2. Sizov, G.Y.; Zhang, P.; Ionel, D.M.; Demerdash, N.A.O; Rosu, M., Automated Multi-Objective Design Optimization of PM AC Machines Using Computationally Efficient-FEA and Differential Evolution, IEEE Transactions on Industry Applications, Vol.49, no.5, 2013, pp.2086-2096, ISSN 0093-9994.	5	5		<b>1</b>
1. A.M.A. Haidara, M.F.M. Senana, A. Nomanb, T. Radmanb, Utilization of pico hydro generation in domestic and commercial loads, Renewable and Sustainable Energy Reviews, vol.16, pp.518-524, 2012, ISSN 1364-0321.	3	5	<u>D.Fodorean</u> , L. Szabo and A.Miraoui: "Generator Solutions For Stand Alone Pico-Electric Power Plants", Proceedings of the International Electrical Machines and Drives Conference, May 2009, pp.434-438, ISBN 9781424442515.	<b>1.67</b>
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2. Urresty, J.; Riba, J.; Romeral, L.; Saavedra, H. "Analysis of demagnetization faults in surface-mounted permanent magnet synchronous with inter-turns and phase-to-ground short-circuits", Electrical Machines (ICEM), 2012 XXth International Conference on, On page(s): 2384 - 2389.	4	3	19th Int Conference on Electrical Machines, (ICEM2010), pp.1-6.	<b>0.75</b>
1. Sharifian, M.B.B.; Herizchi, T.; Firouzjah, K.G. "Field oriented control of permanent magnet synchronous motor using predictive space vector modulation", Industrial Electronics & Applications, 2009. ISIEA 2009. IEEE Symposium on, On page(s): 574 - 579 Volume: 2, 4-6 Oct. 2009.	4	3	Fodorean, D.; Djerdir, A.; Miraoui, A.; Viorel, I.-A.: FOC and DTC Techniques for Controlling a Double Excited Synchronous Machine. Electric Machines & Drives Conference, 2007. IEMDC '07. IEEE International Volume: 2, Publication Year: 2007 , Page(s): 1258 - 1263.	<b>0.75</b>

Recunoașterea și impactul activității - A3	<b>3.2 Profesor Invitat</b>	Profesor Invitat la Université de Haute-Alsace, Mulhouse (Franța), perioada 1 - 31 Mai 2013, la invitația Conf.dr.ing. Lhassane IDOUMGHAR (abilitat să conducă cercetare).				<b>20</b>	
	<b>3.3 Membru în colectiv de redacție jurnal, recenzor revistă științifică</b>						
	<b>3.3.1 Recenzor revistă ISI</b>	Recenzor revistă ISI: IEEE Transactions on Industrial Electronics					<b>10</b>
		Recenzor revistă ISI: IEEE Transactions on Vehicular Technology					<b>10</b>
	<b>3.3.3 Membru în cloectiv de redacție jurnal științific</b>	Secretar științific al revistenii internaționale (neindexate) International Journal of Electrical Engineering in Transportation, între anii 2007-2009. (www.ijeet.org)					<b>3</b>
	<b>3.4 Experiența de management</b>	Membru în consiliul departamentului (echivalent facultate) Gennie Electriques et Systemes de Commande, al Université de Technologie de Belfort-Montbéliard (Belfort, Franța) - Perioada: 2007-2009.					<b>4</b>
<b>3.7 Membru în asociație internațională de prestigiu</b>	Membru, din anul 2007, la organizația IEEE.					<b>5</b>	
<b>TOTAL A3:</b>						<b>120.42</b>	