

Conf.dr.ing.abil.Daniel FODOREAN – Listă publicații

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Cărți/ capitole cărți	Articole jurnal ISI- WoS	Articole jurnal indexate BDI / altele	Articole conferințe indexate BDI	Brevete	Indice Hirsch în WoS
4 / 2	14	10 / 3	83	3	13

Sumar rezultate principale

Cărți și articole științifice:

- **6 cărți și capitole:** 4 cărți (3 în română, 1 în engleză) și 2 capitole de carte (în engleză).
- **27 articole de jurnal:** 14 ISI-WoS / 10 indexate BDI / 3 altele.
- **90 articole de conferință:** 83 indexate BDI (dintre care 48 ISI_Proc) / 7 altele.

Brevete: 2 brevete naționale și 1 propunere de brevet național.

TEZA DE DOCTORAT

- ✓ Teză de doctorat în co-tutelă între UTCN și Université de Technology de Belfort-Montbéliard (UTBM)-Franța (prezentare publică în Franceză în 12/07/2005, la Belfort), titlul tezei: "**Conception et réalisation d'une machine synchrone à double excitation : Application à l'entraînement direct**".

Cărți (6)

- B1.** D.Fodorean, *State of the art of Magnetic Gears, their design and characteristics with respect to EV application*, INTECH book chapter (volume Electric Vehicles), 2016.
- B2.** D. Fodorean, F.Jurca, M.Ruba and D.C. Popa. *Motorization Variants for Light Electric Vehicles – design, magnetic, mechanical and thermal aspects*, AlmaMater, June 2013, ISBN 978-606-504-160-8 –172 pages.
- B3.** D.Fodorean: *Global Design and Optimization of a Permanent Magnet Synchronous Machine used for Light Electric Vehicle*, Intech, June 2011 – book chapter of 24 pages in monograph: *Electric Vehicles – Modelling and Simulations*, edited by Serif Soylu, ISBN 978-953-307-477-1.
- B4.** D.Fodorean: *Inițiere în programarea procesoarelor digitale de semnal din clasa TMS320LF2407(A)*, UT Press, Cluj-Napoca, Romania, 2010, ISBN 978-973-662-533-6–210 pages.
- B5.** L.Szabo and D.Fodorean: *Simularea ansamblului convertor-masina utilizat in sisteme electromecanice*, UT Press 2009, ISBN 978-973-662-480-3 – 210 pages.
- B6.** I-A.Viorel, D.Fodorean, F.N.Jurca: *Masini Electrice Speciale – Aplicatii*, Mediamira 2007, Cluj-Napoca, Romania, ISBN 978-973-713-183-6 – 114 pages.

Articole de Jurnal (27)

Articole de jurnal ISI-WoS (14)

- J1. Claudia Violeta Pop, D. Fodorean, C. Husar, C. Irimia, "Structural behavior evaluation of an in-wheel motor based on numerical and experimental approach", *Electrical Engineering (Springer)*, 2019, DOI: 10.1007/s00202-019-00774-0, Volume 102, Nr.1, pp.65-74, March 2020, ISSN 0948-7921.
- J2. D. Fodorean, L. Idoumghar, M. Brevilliers, P. Minciunescu, C. Irimia, "Hybrid Differential Evolution Algorithm employed for the Optimum Design of a High-Speed PMSM used for EV Propulsion", *IEEE Transactions on Industrial Electronics*, 2017, vol.64, n.12, pp.9824-9833, DOI:10.1109/TIE.2017.2701788, ISSN 0278-0046.
- J3. D. Fodorean, M. Sarrazin, Claudia Steluta Marțis, J. Anthonis and H. Van der Auweraer, "Electromagnetic and Structural Analysis for a Surface Mounted PMSM used for Light-EV", *IEEE Transactions on Industry Applications*, vol.52, n.4, pp.2892-2899, July-August 2016, ISSN 0093-9994, DOI:10.1109/TIA.2016.2537784.
- J4. D.Fodorean: "Study of a High Speed Motorization with Improved Performances dedicated for an Electric Vehicle", *IEEE Transactions on Magnetics*, vol.50, n°2, paper no.7022804, Feb.2014, ISSN 0018-9464.
- J5. D. Fodorean, 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.
- J6. M. Ruba and D. Fodorean, "Analysis of Fault-Tolerant Multiphase Power Converter for a Nine-Phase Permanent Magnet", *IEEE Transaction on Industry Applications*, vol.48, nr.6, pp.2092-2101, November/December 2012, ISSN 0093-9994.
- J7. D.Fodorean, 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.
- J8. A.R. Matyas, K.A. Biro and D. Fodorean, "Multi-Phase Synchronous Motor Solution for Steering Applications", *Progress In Electromagnetics Research*, vol.131, pp.63-80, Sept. 2012, ISSN 1559-8985.
- J9. D. Fodorean, 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.
- J10. T.Raminosa, B.Blunier, D.Fodorean 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, September 2010, ISSN 0278-0046.
- J11. D.Fodorean, S.Giurcea, A.Djerdir and A.Miraoui: "Numerical Approach for Optimum Electromagnetic Parameters of Electrical Machines used in Vehicle Traction Applications", *Energy Conversion and Management (Elsevier)*, vol.50, pp.1288-1294, Mai 2009, ISSN 0196-8904.
- J12. S.Giurcea, D.Fodorean, G.Cirrincone, A.Miraoui and M. Cirrincone: "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, Septembre 2008, ISSN 0018-9464.
- J13. D.Fodorean, I.A.Viorel, A.Djerdir and 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.

- J14.** D.Fodorean, A.Djerdir, I.A.Viorel and 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.

Articole de jurnal indexate BDI (10)

- Ji15.** Claudia V. Pop, D. Fodorean, "*Magnetic Gear Topologies and their Applications in Electric Vehicles*", Electrotehnică, Electronică, Automatică, 65 (2017), nr.4, pp.24-29, ISSN 1582-5175.
- Ji16.** D.C. Popa, B. Vărățeanu, Daniel Fodorean, P. Minciunescu, Claudia Marțiș, *High Speed Induction Motor used in an Electric Vehicle*, *Electrotehnica, Electronica, Automatica*, vol. 64 (2016), nr.3, pp.5-11, ISSN 1582-5175.
- Ji17.** S. Breban, F. Maes, F. Boutoille, D. Fodorean, "*Experimental analysis of a hybrid energy source used in vehicular applications*", Acta Electrotehnica, vol.57, nr.3-4, pp.355-358, Nov.2016, ISSN 2344-5637.
- Ji18.** Claudia V. Pop, D. Fodorean, "*Magnetic multiplier for EV transmission – analytical and numerical aspects*", Acta Electrotehnica, vol.57, nr.3-4, pp.529-533, Nov.2016, ISSN 2344-5637.
- Ji19.** J. Lepagnet, L. Idoumghar, D. Fodorean, *Hybrid Nelder-Mead Imperialist Competitive Algorithm Applied to Electric Motor Design*, Computational and Applied Mathematics Journal. Vol. 1, No. 5, 2015, pp. 307-318, ISSN: 2381-1218 e-ISSN: 2381-1226.
- Ji20.** L. Szabo, L. M. Ruba, D. Fodorean, P. Rafajdus, P. Dubravka, P., *Torque smoothing of a fault tolerant segmental stator switched reluctance motor*, Komunikacie, vol.17, n.1A, 2015, pp.95-101, ISSN 1335-4205.
- Ji21.** B-D. Vărățeanu, P. Minciunescu, D. Fodorean, *Mechanical design and analysis of a permanent magnet rotors used in high-speed synchronous motor*, Electrotehnica, Electronica, Automatica, vol. 62 (2014), nr.1, pp.9-16, ISSN 1582-5175.
- Ji22.** Claudia Martis, D. Fodorean, 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.
- Ji23.** D. Fodorean, L. Szabo, *Analytical Design, Numerical Computation and Optimization of a PMSM used for Electric Vehicle Propulsion*, BULETINUL INSTITUTULUI POLITEHNIC DIN IAȘI, ELECTROTEHNICĂ, ENERGETICĂ, ELECTRONICĂ, 2011, vol.6, pp.73-80, ISSN 1223-8139.
- Ji24.** D.Fodorean, 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 IJECE, vol.5, n°1, Winter-Spring 2006, pp.63-68, ISSN 1682-0053.

Alte articole de jurnal internațional (3)

- Ji25.** D.Fodorean 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.
- Ji26.** M.Gutman, I.A.Viorel, D.Fodorean and C.Stet: "Different variants of permanent magnet synchronous motors with field weakening possibilities", University Oradea Annals, Electrotehnical Section, Oradea, Romania, 2005, pp. 150-154, ISSN 1223-2106.
- Ji27.** D.Fodorean, I.A.Viorel, A.Miraoui, A.Djerdir and M.Gutman: "On the performances of a synchronous motor with different rotor configurations", University Oradea Annals, Electrotehnical Section, Oradea, Romania, 2004, pp. 105-109, ISSN 1223-2106.

Articole de conferință (90)

Articole de conferință internațională indexate BDI (83)

- C1. M. Essaid, M. Brévilliers, J. Lepagnet, L. Idoumghar and D. Fodorean, *An eigenvector-enhanced parallel adaptive differential evolution for electric motor design*, IEEE ICTAI 2019, 4-6 November 2019, Portland, Oregon, USA, pp.713-720, DOI 10.1109/ICTAI.2019.0010.
- C2. D. Fodorean, F. Carlea, S. Raboaca, C. Filote, *Mobile charging station for urban and resort areas*, EV2019, 3-4 October 2019, Bucharest, Romania, ISBN 978-1-7281-0791-2.
- C3. D. Fodorean, L. Idoumghar, *Motor variants for light EV optimized based on hybrid evolutionary algorithm*, EV2019, 3-4 October 2019, Bucharest, Romania 2019, ISBN 978-1-7281-0791-2.
- C4. R.C. Nacu, D. Fodorean, *Battery cells characterization for subsequent operation in battery models used in mobile charging station designing*, EV2019, 3-4 October 2019, Bucharest, Romania 2019, ISBN 978-1-7281-0791-2.
- C5. A. Kacenska, A.-C. Pop, I. Vintiliu, D. Fodorean, *Lumped Parameter Thermal Modeling of Permanent Magnet Synchronous Motor*, Electric Vehicle International Conference & Show (EV2019), Bucharest, 3-4 October 2019, DOI 10.1109/EV.2019.8892937, ISBN 978-1-7281-0791-2.
- C6. M. Essaid, M. Brévilliers, J. Lepagnet L. Idoumghar and D. Fodorean, *Hybrid parameter adaptation strategy for differential evolution to solve real-world problems*, IEEE International Congress on Evolutionary Computation 2019, Wellington, New Zealand, 10-13 June 2019, pp.3031-3036, DOI: 10.1109/CEC.2019.8790079, ISBN 978-1-7281-2153-6.
- C7. Claudia Violeta Pop, D. Fodorean, C. Husar, C. Irimia, *Noise and vibration analysis of an in-wheel motor with integrated magnetic gear dedicated for light electric application*, 2019 8th International Conference on Modern Power Systems (MPS), May 21-23 2019, Cluj-Napoca, paper nr. 109, ISBN 978-1-7281-0750-9/19.
- C8. C. Filote, Raluca-Andreea Felseghi, F. Cârlea, M. Rață, Claudia Steluța Martiș, A. Lavric, D. Fodorean and Maria Simona Răboacă, *Green Hybrid Energy System for Office Building*, CLIMA 2019, Bucharest, Romania, May 2019, pp.1-6, DOI:10.1051/e3sconf/201911104026, eISSN: 2267-1242.
- C9. Claudia Violeta Pop, D. Fodorean, C. Husar, C. Irimia, *Structural numerical and experimental comparison of an in-wheel motor dedicated for electric scooter application*, IEEE ELEKTRO, Mikulov, Czeck Republick, 21-23 May 2018, paper TCP3-15, pp.1-5, DOI: 10.1109/ELEKTRO.2018.8398293, ISBN 978-1-5386-4759-2/18.
- C10. M. Essaid, L. Idoumghar, J. Lepagnet, M. Brevilliers and D. Fodorean, *A hybrid optimization algorithm for electric motor design*, Computational Science – ICCS 2018. ICCS 2018. Lecture Notes in Computer Science, vol 10861, pp 501-517, Wuxi, China, 11 – 13 June 2018, ISBN 978-3-319-93700-7.
- C11. D. Fodorean, R.C. Nacu, V. Chindris, *Development of High-Frequency Modular Power Control Unit for Real-Time Testing of a High-Speed Electric Motor*, SPEEDAM 2018, Amalfi, Italy, 20 – 22 June 2018, pp.920-925, ISBN ISBN: 978-1-5386-4940-4.
- C12. R.C. Nacu, D. Fodorean, C. Husar, M. Grovu, C. Irimia, *Towards autonomous EV by using Virtual Reality and Prescan-Simulink simulation environments*, SPEEDAM 2018, Amalfi, Italy, 20 – 22 June 2018, pp.402-407, ISBN: 978-1-5386-4940-4.
- C13. M. Essaid, L. Idoumghar, J. Lepagnet, M. Brevilliers and D. Fodorean, *A hybrid differential evolution algorithm for real world problems*, IEEE Congress on Evolutionary Computation (CEC), Rio de Janeiro, Brasil, 8-13 July 2018, pp.1-7, ISBN 978-1-5090-6017-7/18.
- C14. T. Gyorgy, D. Fodorean, *Human-in-the-Loop simulation of an electric vehicle drivetrain*, IEEE ICEM 2018, Alexandrion, Greece, 3-6 September 2018, pp.1545-1550, ISBN 978-1-5386-2476-0.

- C15.** M. Essaid, L. Idoumghar, J. Lepagnet, M. Brevilliers and D. Fodorean, *A Parallel Adaptive Differential Evolution Algorithm for Electric Motor Design*, Proceedings of 7th International Conference on Metaheuristics and Nature Inspired computing (META 2018), Marakech, Maroc, 2018, pp.204-206, Nov.2018.
- C16.** C. Irimia, M. Grovu, C. Husar, D. Fodorean, Antonya Csaba, *Co-simulation Analysis for an Electric Vehicle Powered by a High-Speed Electrical Machine*, IEEE VPPC 2017, Belfort, France, 11-14 December 2017, ISBN 978-1-5386-1317-7.
- C17.** Ioana-C. Gros, D. Fodorean, I.-C. Marginean, *FPGA Real-Time Implementation of a Vector Control Scheme for a PMSM used to propel an Electric Scooter*, ISEEE 2017, Galati, Romania, Oct.2017, DOI: 10.1109/ISEEE.2017.8170666, ISBN 978-1-5386-2059-5.
- C18.** T. Gyorgy, D. Fodorean, *Model in the Loop Simulation of an Electric Propulsion System Using Virtual Reality*, UPEC 2017 52nd International Universities' Power Engineering Conference, Heraklion, Greece, 29 August - 1 September 2017, , DOI: 10.1109/UPEC.2017.8232024, ISBN 978-1-5386-2344-2.
- C19.** D. Fodorean, *Study of electric propulsion by using virtual reality software*, UPEC 2017 52nd International Universities' Power Engineering Conference, Heraklion, Greece, 29 August - 1 September 2017, DOI: 10.1109/UPEC.2017.8231999, ISBN 978-1-5386-2344-2.
- C20.** Claudia V. Pop, D. Fodorean, *Noise and Vibrations Analysis of a Permanent Magnet Synchronous Machine for Light Electric Vehicle*, UPEC 2017 52nd International Universities' Power Engineering Conference, Heraklion, Greece, 29 August - 1 September 2017, DOI: 10.1109/UPEC.2017.8232035.
- C21.** D. Fodorean, L. Idoumghar, *Hybrid Optimization Design of a High-Speed Permanent Magnet Machine Used for EV Traction*, IEEE EPE 2016, Iasi, Romania, 20-22 October 2016, paper1707, pp.1-6, ISBN 978-1-5090-6128-0.
- C22.** M. Ruba, D. Fodorean, *Development of a Complete Motor-Drive Solution for Light EV Based on a SRM*, IEEE EPE 2016, Iasi, Romania, 20-22 October, 2016, paper 1514, pp.1-8, ISBN 978-1-5090-6128-0.
- C23.** D.C. Popa, D. Fodorean, *Electrical Machines Solutions for Air Conditioning System in Automotive Industry*, IEEE EPE 2016, Iasi, Romania, 20-22 October 2016, paper 1788, pp.1-6, ISBN 978-1-5090-6128-0.
- C24.** Claudia V. Pop, D. Fodorean, *Modelling of an In-Wheel Motor with Integrated Magnetic Gear for Electric Vehicle Applications*, IEEE EPE 2016, Iasi, Romania, 20-22 Oct.2016, paper 1703, pp.1-5, ISBN 978-1-5090-6128-0.
- C25.** L.Szabo, D. Fodorean, Alexandra Vasilache, *Bearing Fault Detection of Electrical Machines Used in Automotive Applications*, IEEE ICEM 2016, Lausanne, Switzerland, 2016, pp. 2186-2192, ISBN 978-1-5090-2537-4.
- C26.** Claudia V. Pop, D. Fodorean, *In-Wheel Motor with Integrated Magnetic Gear for Extended Speed Applications*, IEEE SPEEDAM'16, Capri, Italy, 2016, pp.413-418, ISBN: 978-1-5090-4181-7.
- C27.** D. Fodorean, Călin Husar, Cristi Irimia, *Noise and Vibration Behavior Evaluation of DC Motor and PMSM in Electric Traction Application*, IEEE SPEEDAM'16, Capri, Italy, 2016, pp.1186-1191, ISBN 978-1-5090-4181-7.
- C28.** M. Ruba, D. Fodorean, *Motor-drive solution for light electric vehicles based on a switched reluctance machine*, IEEE AQTR-2016, 19-21 May, 2016, Cluj-Napoca, Romania, paper 97, ISBN 978-1-4673-8691-3.
- C29.** A. Popp, M.Sarrazin, H. Van Der Auweraer, D. Fodorean, O. Birte, Karoly, B., Martis, C., *Real-time co-simulation platform for electromechanical vehicle applications*, 2015 9th International Symposium on Advanced Topics in Electrical Engineering, ATEE 2015, 7-9 May 2015, pp.240-243, Bucharest, Romania, DOI:10.1109/ATEE.2015.7133772.

- C30.** C. Irimia, C. Husar, M. Grovu, D. Fodorean, *Overall performances of a high-speed propulsion system through simulation approach*, ACEMP-OPTIM-Electromotion 2015, Side, Turkey, 2-5 September 2015, pp. 482-487, DOI:10.1109/OPTIM.2015.7427019.
- C31.** D. Fodorean, L. Idoumghar, *Improved performances of a PMSM with reduced torque ripples, optimized based on hybrid algorithm, dedicated for light EV*, VPPC-2015, Montreal, Canada, 19-22 October 2015, pp.1-6, DOI: 10.1109/VPPC.2015.7352965.
- C32.** M. Ruba, D. Fodorean, *Investigation of Switched Reluctance Machine for EV Propulsion Unit with Torque Smoothing Strategy*, Progress In Electromagnetics Research Symposium, Prague, Czech Republic, 06-09 July, 2015, pp.463-468 ISBN 978-193414230-1.
- C33.** F. Jurca, D. Fodorean, *Steady-state Analysis of Permanent Magnet Synchronous Machine for Integrated Starter-alternator Applications*, Progress In Electromagnetics Research Symposium, Prague, Czech Republic, 06-09 July, 2015, pp.658-663, ISBN 978-193414230-1.
- C34.** D. Fodorean, C. Irimia, P. Minciunescu, *Performances Evaluation of a Magnetic Gear with High Transmission Ratio Used for High Speed Applications*, Progress In Electromagnetics Research Symposium, Prague, Czech Republic, 06-09 July, 2015, pp.627-631, ISBN 978-193414230-1.
- C35.** D. Fodorean, A. Popp, O. Birte, C. Martis, M. Sarrazin, H. van der Auweraer, *Noise and vibration behavior and analysis conditions of a 45kW induction motor*, IEEEIC, Rome, Italy, 10-13 June, 2015, pp. 2147-2152, ISBN: 978-1-4799-7992-9.
- C36.** P.C. Irimia, M. Grovu, C. Husar, D. Fodorean, *Control Analysis through Co-Simulation approach of a High-Speed Electrical Machine*, International Conference on Electrical and Power Engineering, 16-18 Oct., 2014, Iasi Romania, pp.1-6, ISBN: 978-1-4799-5848-1.
- C37.** V. Chindris, M. Ruba, D. Fodorean, *Design and testing of a low voltage high current drive for SRMs in light electric vehicles*, PEMC 2014, 21-24 September 2014, Antalya, Turkey, pp.137-142, ISBN: 978-1-4799-2062-4.
- C38.** M. Sarrazin, D. Fodorean, S. Gillijns, B. Peeters, H. Van der Auweraer, C. Martis, *Multiphysical analysis of a three-phase PWM-supplied PMSM for light vehicle applications*, ISMA 2014, 15-17 September, Leuven, Belgium, pp.1401-1414, ISBN: 978-9-0738-0291-9.
- C39.** D. Fodorean, O. Birte, A. Popp, S. Gillijns, J. Anthonis, H. van der Auweraer, Claudia Martis, *Structural Analysis of PMSM-radial flux, PMSM-axial flux and SRM Drives for an Electric Scooter*, ISMA 2014, 15-17 September, Leuven, Belgium, pp.1361-1370, ISBN: 978-9-0738-0291-9.
- C40.** C. Martis, D. Fodorean, P.C. Irimia, C.I. Husar, *Vibroacoustic Behaviour Analysis of a Permanent Magnet Synchronous Machine for Automotive Applications*, IEEE UPEC 2014, Cluj-Napoca, Romania, 2-5 September 2014.
- C41.** D. Fodorean, M Sarrazin, Claudia Steluta Martis, J. Anthonis, H. Van der Auweraer, *Characterizing the Motorization of a Light Electric Vehicle through FEM and NVH Tests*, ICEM 2014, 2-5 September 2014, Berlin, Germany, pp.2398-2403, ISBN: 978-1-4799-4775-1.
- C42.** D. Fodorean, D.C. Popa, P. Minciunescu, C. Irimia, L. Szabó, *High-Speed Motorization for Electric Vehicle based on PMSM, IM and VRSM*, ICEM 2014, 2-5 September 2014, Berlin, Germany, pp.2565-2570, ISBN: 978-1-4799-4775-1.
- C43.** D.C. Popa, D. Fodorean, *Design and performances evaluation of a high speed induction motor used for the propulsion of an electric vehicle*, SPEEDAM 2014 - Symposium on Power Electronics, Electrical Drives, Automation and Motion - Ischia (Italy) - June 18-20th, 2014, pp.88-93, ISBN: 978-1-4799-4750-8.
- C44.** M. Ruba, V. Chindris, D. Fodorean, *Design and experimental validation of a low voltage high current SRM for light electric vehicles*, SPEEDAM 2014 - Symposium on Power Electronics,

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- C45.** L. Szabó, M. Ruba, D. Fodorean, P. Rafajdus, P. Dubravka, *Direct Instantaneous Torque Controlled Modular Switched Reluctance Motor Designed for Automotive Applications*, Proceedings of the 10th International Conference ELEKTRO 2014, Rajecké Teplice (Slovakia), 2014, pp. 239-244, ISBN: 978-1-4799-3720-2.
- C46.** D. Fodorean and L. Szabo, "Study of Permanent Magnet Synchronous Machine Topologies for Electric Scooter Application", Advanced Engineering Forum, vols.8-9 (2013) pp.397-404, ISSN 2234-9898.
- C47.** J. Lepagnot, L. Idoumghar, D. Fodorean, *Hybrid Imperialist Competitive Algorithm with Simplex approach: Application to Electric Motor Design*, IEEE International Conference on Systems, Man, and Cybernetics (SMC 2013), Manchester, UK, 13-16 October 2013, pp.2454-2459.
- C48.** M. Ruba, D. Fodorean, *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.
- C49.** F. Jurca, D. Fodorean, *Analysis and Control of an Axial Flux Motor for Small Electric Traction System*, IEEE EUROCON 2013 Conference, Zagreb, Croatia, July 1-4, 2013, pp.1044-1048, ISBN:978-1-4673-2232-4/13.
- C50.** D. Fodorean, *Study of a High Speed Motorization with Improved Performances dedicated for an Electric Vehicle*, the - COMPUMAG 2013, 19th Conference on the Computation of Electromagnetic Fields, Budapest, Hungary, June 30 – July 4, 2013, PA6-22.
- C51.** D.C. Popa, D. Fodorean, *Analysis of a High Speed Induction Machine used for the Propulsion of an Electric Vehicle*, the - COMPUMAG 2013, 19th Conference on the Computation of Electromagnetic Fields, Budapest, Hungary, June 30 – July 4, 2013, PA6-12.
- C52.** D. Fodorean, 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.
- C53.** M. Ruba, L. Szabo, D. Fodorean, "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, June 20-22, 2012, pp.341-346, ISBN-978-1-4673-1300-1.
- C54.** F. Jurca, D. Fodorean, "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, June 20-22, 2012, pp.365-368, ISBN-978-1-4673-1300-1.
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