

Cărți/ capitole cărți	Articole de jurnal WoS	Articole de revistă indexate BDI / altele	Articole de conferință BDI	Brevete	Director proiecte cercetare (national / international)	Indice Hirsch WoS
4 / 3	18	13 / 3	93	3	6 / 2	13

Rezumat publicații

Cărți și articole:

- **7 cărți și/sau capitole de carte:** 4 cărți (3 în română, 1 în engleză) și 3 capitole (în engleză).
- **34 articole de jurnal:** 18 articole WoS, 13 articole de în BDI + alte 3 articole de revistă.
- **93 articole de conferință internațională indexată BDI.**

Teză de Doctorat (în co-tutelă)

Realizată în cadrul colaborării dintre Universitatea Tehnică din Cluj-Napoca și Université de Technology de Belfort-Montbéliard (Franța). Susținere publică în 12 Iulie 2005, la Belfort, France. Titlu: "*Conception et réalisation d'une machine synchrone à double excitation: Application à l'entraînement direct*".

Cărți / capitole (7)

- B1.** R.C. Nacu, D. Fodorean, (book chapter, 24 pages) "*Virtual Reality Utilization in Electrical Vehicle Development*" published in monograph "*Multidisciplinary Perspectives on Green Electromobility and Charging Stations*", INTECH 2023, DOI: 10.5772/intechopen.109076.
- B2.** 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, ISBN 978-953-51-2636-2.
- B3.** 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.
- B4.** 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.
- B5.** D.Fodorean: *Initiation in programming digital signal processors of TMS320LF2407(A) type* (original title in Romanian: *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.
- B6.** L.Szabo and D.Fodorean: *Simulation of the converter-machine assembly used in electromechanical systems* (original title in Romanian: *Simularea ansamblului convertor-masina utilizat in sisteme electromecanice*), UT Press 2009, ISBN 978-973-662-480-3 – 210 pages.
- B7.** I-A.Viorel, D.Fodorean, F.N.Jurca: *Special Electrical Machines - Applications* (original title in Romanian: *Masini Electrice Speciale – Aplicatii*), Mediamira 2007, Cluj-Napoca, Romania, ISBN 978-973-713-183-6 – 114 pages.

Articole de Revistă (34)

Articole de Revistă WoS (18)

- J1. Claudia. V. Pop, D. Fodorean, "Purely electromagnetic propulsion system with two transmission levels – design, numerical and experimental results", *IEEE Transactions on Industrial Electronics*, ISSN 0278-0046, DOI: 10.1109/TIE.2022.3187582, Vol.70, Issue: 5, pp.4494-4504, May 2023.
- J2. Nacu, R.C., Fodorean, D. "Lithium-Ion Cell Characterization, Using Hybrid Current Pulses, for Subsequent Battery Simulation in Mobility Applications", *Processes*, 2022, 10, 2108. <https://doi.org/10.3390/pr10102108>, eISSN 2227-9717.
- J3. Claudia. V. Pop, D. Fodorean, D.C. Popa, "Structural Analysis of an In-Wheel Motor with Integrated Magnetic Gear Designed for Automotive Applications", *Sustainability* 2022, 14, 12007. <https://doi.org/10.3390/su141912007>, ISSN 2071-1050.
- J4. Claudia V. Pop, M. Essaid, L. Idoumghar, D. Fodorean, "Novel Differential Evolutionary Optimization Approach for an Integrated Motor-Magnetic Gear used for Propulsion Systems", *IEEE Access*, vol.9, pp.142114-142128, DOI: 10.1109/ACCESS.2021.3119523, October 2021, ISSN 2169-3536.
- J5. 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), DOI: 10.1007/s00202-019-00774-0, Volume 102, Nr.1, pp.65-74, March 2020, ISSN 0948-7921.
- J6. 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, vol64, n.12, pp.9824-9833, DOI:10.1109/TIE.2017.2701788, ISSN 0278-0046.
- J7. 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.
- J8. 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.
- J9. 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.
- J10. M. Ruba and D. Fodorean, "Analysis of Fault-Tolerant Multiphase Power Converter for a Nine-Phase Permanent Magnet Synchronous Machine", *IEEE Transaction on Industry Applications*, vol.48, nr.6, pp.2092-2101, November/December 2012, ISSN 0093-9994.
- J11. 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.
- J12. 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.
- J13. 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.
- J14. T.Raminosoa, 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.
- J15. D.Fodorean, S.Giurgea, 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.
- J16. S.Giurgea, D.Fodorean, G.Cirrincione, A.Miraoui and 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, Septembre 2008, ISSN 0018-9464.
- J17. 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.
- J18. 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.

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- Ji19.** Maria S. Derban, D.Fodorean, "Study of a 7.5 kW & 18000 r/min Synchronous Reluctance Motor for Fuel Cell Compressor Application", Engineering Proceedings, 2024, 79(1), 14; <https://doi.org/10.3390/engproc2024079014>, November 2024, ISSN 2673-4591.
- Ji20.** Lucian C.A. Ciochinda, D.Fodorean, "Insulated Hybrid Grid based on PV system, Battery and Fuel Cell car – a case study", Engineering Proceedings, 2024, 79(1), 12; <https://doi.org/10.3390/engproc2024079012>, November 2024, ISSN 2673-4591.
- Ji21.** Claudia Violeta Pop, D.Fodorean, *State of the art of Multiport Electrical Machines and Magnetic Gears with respect to Wind Power Generation Application*, Renewable Energy and Power Quality Journal, 2022, ISSN 2172-038 X, Volume No.20, DOI: <https://doi.org/10.24084/repqj20.206>, pp.6-11, September 2022.
- Ji22.** 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.
- Ji23.** D.C. Popa, B. Văriteanu, D. 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.
- Ji24.** 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.
- Ji25.** 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.
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- Ji27.** L. Szabo, L., M. Ruba, D. Fodorean, P. Rafajdus, P. Dubravka, P., *Torque smoothing of a fault tolerant segmental stator switched reluctance motor*, Comunicatie, vol.17, n.1A, 2015, pp.95-101, ISSN 1335-4205.
- Ji28.** B-D. Văriteanu, 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.
- Ji29.** 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.
- Ji30.** 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.
- Ji31.** D.Fodorean, I.A.Viorel, A.Djerdar 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.

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- Ji32.** 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.
- Ji33.** M.Gutman, I.A.Viorel, D.Fodorean and C.Stet: "Different variants of permanent magnet synchronous motors with field weakening possibilities", University Oradea Annals, Electrotechnical Section, Oradea, Romania, 2005, pp. 150-154, ISSN 1223-2106.
- Ji34.** D.Fodorean, I.A.Viorel, A.Miraoui, A.Djerdar and M.Gutman: "On the performances of a synchronous motor with different rotor configurations", University Oradea Annals, Electrotechnical Section, Oradea, Romania, 2004, pp. 105-109, ISSN 1223-2106.

Articole de Conferință Internațională (96)

Articole de Conferință Internațională Indexate BDI (93)

- C1. D.Fodorean, Ioana Gros, "Multilevel inverter for EV charging via hybrid storage unit (Fuel Cell, Battery, Ultracapacitor)", *Electrical Systems for Aircraft, Railway, Ship Propulsion and Road Vehicles (ESARS) and International Transportation Electrification Conference (ITEC)* 2024, Naples, Italy, pp.1-6, doi:..., 26-29 November 2024.
- C2. D.Fodorean, "Self-Excited Synchronous Machines used for Small Wind Power Applications", 13th International Conference on Renewable Energy Research and Applications (ICRERA) 2024, **BEST PAPER AWARD**, Nagasaki, Japan, pp.1-6, doi:..., 9-13 November 2024, ISBN 979-8-3530-7558-9.
- C3. D.Fodorean, Claudia V. Pop, "Suitability of a Permanent Magnet Synchronous Generator with Magnetic Gear for Wind Power Generation", 13th International Conference on Renewable Energy Research and Applications (ICRERA) 2024, Nagasaki, Japan, pp.1-6, doi:..., 9-13 November 2024, ISBN 979-8-3530-7558-9.
- C4. D. Fodorean, Simina-Maria Derban, *Design and Performances Evaluation of a PMSG used for Pico-Power Plant – a case study*, EPE2022, Iasi, 20-22 October 2022, DOI: 10.1109/EPE56121.2022.9959826.
- C5. Simina-Maria Derban, D.C.Popa, D.Fodorean, *Electromagnetic Performances Evaluation of High Speed Synchronous Reluctance Machines for Turbo Charger Applications*, EPE2022, Iasi, 20-22 October 2022.
- C6. Claudia V. Pop, D. Fodorean, *State of the art of Multiport Electrical Machines and Magnetic Gears with respect to Wind Power Generation Application*, 20th International Conference on Renewable Energies and Power Quality (ICREPQ'22), pp.6-11, <https://doi.org/10.24084/repqj20.206>.
- C7. M.Dranca, M.Chirca, S.Breban and D.Fodorean, *Comparative Design Analysis of Two Modular Permanent Magnet Synchronous Generators*, 7th International Symposium on Electrical and Electronics Engineering, Galati, Romania, 28-30 Oct.2021 (virtual conference).
- C8. R.C.Nacu, D.Fodorean, *Harmonics Mitigation in DC Based Charging Stations for EVs*, IEEE ICRERA, 26-29 Sep.2021, Istanbul, Turkey (hybrid conference), **BEST PAPER AWARD**, pp.226-230, DOI 10.1109/ICRERA52334.2021.9598559, ISBN 978-1-6654-4524-5/21.
- C9. D.Fodorean, Claudia V.Pop, D.C.Popa, *Electromagnetic and Structural Analysis of an Induction Motor With Copper Rotor Bars Used in Automotive Applications*, IEEE RTSI2021, Naples, Italy, 6-9 Sep.2021 (virtual conference), pp.340-345, DOI 10.1109/RTSI50628.2021.9597235.
- C10. A. Kačenka, M. Koch, A. Abedini Mohammadi, Adrian-C. Pop, I. Vintiloiu, D. Fodorean; *A Generic Lumped-Parameter Model for Stator with Tooth-Wound Winding*, ICEM 2020, Goteborg, pp.758-764, 23-26 Aug.2020.
- C11. M. Essaid, M. Brévilliers, J. Lepagnot, 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.
- C12. D Fodorean, F. Carlea, S. Raboaca, C. Filote, *Mobile charging station for urban and resort areas*, IEEE EV2019 conference, 3-4 October 2019, Bucharest, Romania, ISBN 978-1-7281-0791-2.
- C13. 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.
- C14. 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.
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- C16. M. Essaid, M. Brévilliers, J. Lepagnot 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.
- C17. 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.
- C18. 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.
- C19. 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, Czech Republic, 21-23 May 2018, paper TCP3-15, pp.1-5, DOI: 10.1109/ELEKTRO.2018.8398293, ISBN 978-1-5386-4759-2/18.

- C20. M. Essaid, L. Idoumghar, J. Lepagnot, 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.
- C21. 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: 978-1-5386-4940-4.
- C22. 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.
- C23. M. Essaid, L. Idoumghar, J. Lepagnot, 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.
- C24. 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.
- C25. M. Essaid, L. Idoumghar, J. Lepagnot, 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.
- C26. 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.
- C27. 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.
- C28. 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.
- C29. 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.
- C30. Claudia V. Pop, D. Fodorean, O. Birte, *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.
- C31. 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.
- C32. 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.
- C33. 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.
- C34. 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.
- C35. 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.
- C36. 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.
- C37. 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.
- C38. 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.
- C39. 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.
- C40. 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, DOI10.1109/OPTIM.2015.7427019.

- C41. 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.
- C42. 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.
- C43. 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.
- C44. 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.
- C45. 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.
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