

## LISTA LUCRĂRILOR ȘTIINȚIFICE

1. Viorel I.A. – Szabó L. – H. Hedeșiu: **Proiectarea asistată de calculator a unui cuplaj electromagnetice cu alunecare**, Analele Universității din Oradea, 1991, vol. I., Fascicola electrotehnică și energetică, pp. 74-79.
2. Viorel I.A. – Kovács Z. – Szabó L.: **Sawyer Type Linear Motor Dynamic Modelling**, Proceedings of the International Conference on Electrical Machines (ICEM), Manchester, 1992, vol. 2., pp. 697-701.
3. Viorel I.A. – Kovács Z. – Szabó L.: **Dynamic Modelling of a Closed-Loop Drive System of a Sawyer Type Linear Motor**, Proceedings of the International Conference on Power Conversion & Intelligent Motion (PCIM), Nürnberg, 1992, vol. Intelligent Motion, pp. 251-257.
4. Viorel I.A. – Szabó L. – Kovács Z.: **Comportarea dinamică a unui motor de tip Sawyer comandat în buclă închisă**, Analele Universității din Oradea, 1992, vol. II., Fascicola Electrotehnică și energetică, pp. 233-240.
5. Szabó L. – Fărăgău R.: **Asupra modelării matematice a caracteristicilor de magnetizare folosind funcții spline**, Analele Universității din Oradea, 1992, vol. II., Fascicola Electrotehnică și energetică, pp. 84-91.
6. Szabó L.: **Magneți permanenți folosiți în construcția mașinilor electrice**, Analele Universității din Oradea, 1993, Fascicola Energetică, pp. 130-137.
7. Viorel I.A. – Szabó L. – Kovács Z.: **Quadrature Field-Oriented Control of a Linear Stepper Motor**, Proceedings of the International Conference on Power Conversion & Intelligent Motion (PCIM), Nürnberg, 1993, vol. Intelligent Motion, pp. 64-73. ISBN: 3-928643-06-1. (ISIProc)
8. Szabó L. – Viorel I.A. – Kovács Z.: **Computer Simulation of a Closed-Loop Linear Positioning System**, Proceedings of the International Conference on Power Conversion & Intelligent Motion (PCIM), Nürnberg, 1993, vol. Intelligent Motion, pp. 142-151. ISBN: 3-928643-06-1. (ISIProc)
9. Szabó L. – Viorel I.A. – Kovács Z.: **Variable Speed Conveyer System Using E.M.F. Sensing Controlled Linear Stepper Motor**, Proceedings of the International Conference on Power Conversion & Intelligent Motion (PCIM), Nürnberg, 1994, vol. Intelligent Motion, pp. 183-190. ISBN: 3-928643-08-8.
10. Viorel I.A. – Csapo-Martinescu E. – Szabó L.: **Claw Pole Brushless D.C. Motor for a Variable Speed Drive System**, Proceedings of the International Conference on Power Conversion & Intelligent Motion (PCIM), Nürnberg, 1994, vol. Intelligent Motion, pp. 127-131. ISBN: 3-928643-08-8.
11. Viorel I.A. – Bíró K. – Szabó L.: **Transformer Transient Behavior Simulation by a Coupled Circuit-Field Model**, Proceedings of the International Conference on Electrical Machines (ICEM), Paris, 1994, pp. 654-659.
12. Szabó L.: **Proiectarea cu ajutorul calculatorului numeric a motorului pas cu pas liniar sincron cu magnet permanent și reluctanță variabilă**, Analele Universității din Oradea, 1994, Fascicola energetică, pp. 92-99. ISSN: 1223-2106.
13. Csapo-Martinescu E. – Viorel I.A. – Szabó L.: **Motor de curent continuu fără perii cu indus blindat**, Analele Universității din Oradea, 1994, Fascicola energetică, pp. 57-61. ISSN: 1223-2106.
14. Szabó L. – Viorel I.A. – Kovács Z.: **E.M.F. Sensing Controlled Variable Speed Drive System of a Linear Stepper Motor**, Proceedings of the Power Electronics, Motion Control Conference (PEMC), Warsaw, 1994, pp. 366-371. ISBN: 83-901814-0-1.
15. Viorel I.A. – Szabó L.: **Permanent-Magnet Variable-Reluctance Linear Motor Control**, Electromotion, vol. 1., no. 1. (1994), pp. 31-38. ISSN: 1223-057X.
16. Viorel I.A. – Szabó L. – Kovács Z.: **On the Linear Stepper Motor Control Basics**, Proceedings of the International Conference on Power Conversion & Intelligent Motion (PCIM), Nürnberg, 1995, vol. Intelligent Motion, pp. 481-494. ISBN: 3-928643-10-X.
17. Szabó L. – Viorel I.A. – Kovács Z.: **Computer Simulation of a Constant Velocity Contouring System Using x-y Surface Motor**, Proceedings of the International Conference on Power Conversion & Intelligent Motion (PCIM), Nürnberg, 1995, vol. Intelligent Motion, pp. 375-384. ISBN: 3-928643-10-X.
18. Viorel I.A. – Szabó L.: **The Control Strategy of a Drive System with Variable Reluctance Permanent-Magnet Linear Motor**, Proceedings of the International Conference on Optimization of Electric and Electronic Equipments (OPTIM), Brașov, 1996, pp. 1593-1600. ISBN: 973-97549-7-X. URL: <http://users.utcluj.ro/~szabol/Szabol/Papers/OPTIM96.pdf>.

19. Szabó L. – Viorel I.A. – Kovács Z.: **Computer Aided Design of a Linear Positioning System**, Proceedings of the Power Electronics, Motion Control Conference (PEMC), Budapest, 1996, vol. II., pp. 263-267. ISBN: 963-420-478-2.
20. Viorel I.A. – Szabó L. – Hedeşiu H.C. – Kovács Z.: **Sensorless Adaptive Control of a Linear Stepper Motor**, Proceedings of the International Conference on Power Conversion & Intelligent Motion (PCIM), Nürnberg, 1997, vol. Intelligent Motion, pp. 429-438. ISBN: 3-928643-15-0.
21. Szabó L. – Viorel I.A.: **Variable Reluctance Permanent Magnet Linear Motor Computer Aided Design**, Proceedings of the International Conference on Optimization of Electric and Electronic Equipments (OPTIM), Braşov, 1998, pp. 305-310. ISBN: 973-98511-2-6.  
URL: <http://users.utcluj.ro/~szabol/Szabol/Papers/OPTIM98.pdf>.
22. Viorel I.A. – Szabó L.: **Hybrid Linear Stepper Motors**, Editura Mediamira, Cluj-Napoca, 1998. ISBN 973-9358-12-8. 85 pagini.
23. Szabó L. – Viorel I.A.: **Comparison of Precise Positioning Systems Using Switched Reluctance and Hybrid Linear Stepper Motors by Means of Computer Simulation**, Proceedings of the International Conference on Automation and Quality Control (A&Q), Cluj-Napoca, 1998, Vol. Quality, Design, Development, pp. Q472-Q477. ISBN: 973-9358-15-2.
24. Viorel I.A. – Szabó L. – Kovács Z.: **On the Switched Reluctance Linear Motor Positioning System Control**, Proceedings of the International Conference on Power Conversion & Intelligent Motion (PCIM), Nürnberg, 1998, vol. Intelligent Motion, pp. 21-30. ISBN: 3-928643-20-7.
25. Rösler E.R – Viorel I.A. – Hedeşiu H.C. – Szabó L.: **Drive System with Permanent Magnet Synchronous Motor. Simulation and tests**, Proceedings of the Power Electronics, Motion Control Conference (PEMC), Prague, 1998, vol. 4., pp. 204-209. ISBN: 3-928643-20-7.
26. Szabó L.: **On the Optimal Teeth Geometry of a Hybrid Linear Stepper Motor**, Analele Universităţii din Oradea, 1998, Fascicola Electrotehnică, Session A, pp. 109-114. ISSN: 1223-2106.
27. Viorel I.A. – Chişu I. – Szabó L.: **On the Switched Reluctance Linear Motor Mathematical Model**, Analele Universităţii din Oradea, 1998, Fascicola Electrotehnică, Session A, pp. 143-148. ISSN: 1223-2106.
28. Szabó L. – Viorel I.A. – Chişu I. – Kovács Z.: **A Novel Double Salient Permanent Magnet Linear Motor**, Proceedings of the International Conference on Power Conversion & Intelligent Motion (PCIM), Nürnberg, 1999, vol. Intelligent Motion, pp. 285-290. ISBN: 3-928643-23-1.
29. Viorel I.A. – Szabó L.: **A Modular Hybrid Linear Stepper Motor**, Analele Universităţii din Oradea, 1999, Fascicola Electrotehnică, Secţiunea C, pp. 187-192. ISSN: 1223-2106.  
URL: <http://users.utcluj.ro/~szabol/Szabol/Papers/Oradea99.pdf>.
30. Viorel I.A. – Ivan D.M. – Szabó L.: **Metode numerice cu aplicaţii în ingineria electrică**, Editura Universităţii din Oradea, 2000. ISBN 973-8083-29-X. 202 pagini.
31. Viorel I.A. – Szabó L.: **On the Computation of the Double-Salient Machines Air-Gap Variable Equivalent Permeance**, Proceedings of the International Computer Science Conference MicroCAD '2000, Miskolc, Ungaria, Section F (Electrotehnics-Electronics), pp. 89-94. ISBN: 963-661-419-9.
32. Szabó L. – Viorel I.A. – Józsa J.: **Dynamic Simulation of a Novel Hybrid Linear Stepper Motor by Means of Matlab/Simulink®**, Analele Universităţii din Oradea, Fascicola Electrotehnică, 2000, pp. 49-54. ISSN: 1223-2106. URL: <http://users.utcluj.ro/~szabol/Szabol/Papers/Oradea2000.pdf>.
33. Szabó L. – Viorel I.A. – Józsa J.: **Modalităţile de îmbunătăţire a eficienţei motoarelor liniare pas cu pas hibride**, (în limba maghiară), Conferinţa de energetică şi electrotehnică ENELKO 2000, Cluj, pp.50-56. ISSN: 1454-0746. URL: <http://users.utcluj.ro/~szabol/Szabol/Papers/ENELKO2000.pdf>.
34. Szabó L. – Bíró K.Á. – Barz V. – Hedeşiu H.C.: **Parameter Estimation of a Synchronous Machine by Means of LabView Environment**, Proceedings of the International Computer Science Conference MicroCAD '2001, Miskolc, Ungaria, Section G (Electrotehnics-Electronics), pp. 87-92. ISBN: 963-661-457-1. URL: <http://users.utcluj.ro/~szabol/Szabol/Papers/MicroCAD2001.pdf>.
35. Bíró K.Á. – Szabó L. – Iancu V. – Hedeşiu H.C. – Barz V.: **On the Synchronous Machine Parameter Identification**, Proceedings of the Workshop on Electrical Machine's Parameters, Cluj, 2001, pp. 87-90.  
URL: [http://www.geocities.com/szabol2003/WorkshopParamEM/Paper16\\_Biro.pdf](http://www.geocities.com/szabol2003/WorkshopParamEM/Paper16_Biro.pdf).
36. Szabó L.: **Aparate electrice de comutaţie şi de comandă**, (în limba maghiară), Curs de terminologie în limba maghiară pentru studenţii Facultăţii de Electrotehnică (anul universitar 2000-2001), Societatea Maghiară Tehnico-Ştiinţifică din Transilvania, 2001, pp. 20-31.

37. Szabó L.: **Reprezentări grafice tridimensionale în MATLAB**, (în limba maghiară), Curs de terminologie în limba maghiară pentru studenții Facultății de Electrotehnică (anul universitar 2000-2001), Societatea Maghiară Tehnico-Științifică din Transilvania, 2001, pp. 80-92.
38. Szabó L.: **Analiza câmpului electromagnetic utilizând calculatorul**, (în limba maghiară), Curs de terminologie în limba maghiară pentru studenții Facultății de Electrotehnică (anul universitar 2000-2001), Societatea Maghiară Tehnico-Științifică din Transilvania, 2001, pp. 93-107.
39. Szabó L.: **Metoda Monte Carlo pentru calculul de câmp**, (în limba maghiară), Curs de terminologie în limba maghiară pentru studenții Facultății de Electrotehnică (anul universitar 2000-2001), Societatea Maghiară Tehnico-Științifică din Transilvania, 2001, pp. 108-117.
40. Szabó L. – Viorel I.A.: **An Integrated CAD Environment for Designing and Simulating Double Salient Permanent Magnet Linear Motors**, Proceedings of the International Conference on Power Conversion & Intelligent Motion (PCIM), Nürnberg, 2001, vol. Intelligent Motion, pp. 417-422. ISBN: 3-928643-28-2.
41. Viorel I.A. – Szabó L.: **On a Three-Phase Modular Double Salient Linear Motor's Optimal Control**, Proceedings of the 9<sup>th</sup> European Conference on Power Electronics and Applications (EPE), Graz (Austria), 2001, pe CD: PP00237.pdf. ISBN: 90-75815-06-9.  
URL: <http://users.utcluj.ro/~szabol/SzaboL/Papers/EPE2001.pdf>.
42. Lelkes A. – Szabó L.: **Micromotor sincron cu pornire electronică având eficiență energetică mărită**, (în limba maghiară), Conferința de energetică și electrotehnică ENELKO 2001, Cluj, pp. 81-86. ISSN: 1454-0746.  
URL: <http://users.utcluj.ro/~szabol/SzaboL/Papers/ENELKO2001Lelkes.pdf>.
43. Bíró K.Á. – Bartos F.J. – Szabó L.: **Mașini electrice cu eficiență energetică**, (în limba maghiară), Conferința de energetică și electrotehnică ENELKO 2001, Cluj, pp. 20-32. ISSN: 1454-0746. URL: <http://users.utcluj.ro/~szabol/SzaboL/Papers/ENELKO2001Biro.pdf>.
44. Szabó L. – Dobai J.B. – Füleki M.: **Motor modular cu deplasare în plan de eficiență mărită**, (în limba maghiară), Conferința de energetică și electrotehnică ENELKO 2001, Cluj, pp. 168-173. ISSN: 1454-0746. URL: <http://users.utcluj.ro/~szabol/SzaboL/Papers/ENELKO2001Szabo.pdf>.
45. Lelkes A. – Szabó L.: **Power Economic Small Synchronous Motor with Electronic Starter**, (în limba maghiară), ELEKTROTECHNIKA, vol. 94 (2001), nr. 12, pp. 422-428. ISSN: 0367-0708.
46. Szabó L.: **Proiectarea unui motor sincron liniar cu reluctanță variabilă și magnet permanent – Îndrumător de proiectare pentru uzul studenților**, Universitatea Tehnică din Cluj-Napoca, 2002.
47. Szabó L. – Dobai J.B. – Füleki M.: **Proiectare și simularea unui motor cu deplasare în plan modular**, (în limba maghiară), în volumul Cărțile Sapienția 6, Științe inginerești (editor: Köllő Gábor), Editura Scientia, Cluj, 2002, pp. 209-271. ISBN 973-85422-5-1.
48. Szabó L. – Dobai J.B.: **Combined FEM and SIMULINK Model of a Modular Surface Motor**, Proceedings of the IEEE-TTTC International Conference on Automation, Quality and Testing, Robotics A&QT-R 2002 (THETA 13), Cluj, tome I., pp. 277-282, pe CD: 1\_2\_29\_Szabo Lorand.pdf. ISBN: 9739357-10-3. URL: <http://users.utcluj.ro/~szabol/SzaboL/Papers/AQTR2002.pdf>.
49. Viorel I.A. – Husain I. – Chișu Ioana – Hedeșiu H.C. – Mădescu Gh. – Szabó L.: **Reluctance Synchronous Machine with a Particular Cageless Segmental Rotor**, Conference Record of the International Conference on Electrical Machines ICEM '2002, Brugge (Belgium), pe CD: 592.pdf. ISBN: 90-76019-18-5.
50. Szabó L. – Viorel I.A.: **On a High Force Modular Surface Motor**, abstract în Proceedings of the 10<sup>th</sup> International Power Electronics and Motion Control Conference (PEMC '2002), Cavtat & Dubrovnik (Croatia), 2002, pp. 384. Articol pe CD: T8-052.pdf. ISBN: 953-184-046-6. URL: <http://users.utcluj.ro/~szabol/SzaboL/Papers/EPE-PEMC2002.pdf>.
51. Viorel I.A. – Szabó L. – Ciorba R.C.: **Compact Variable Speed Drive System for Industrial Applications**, Oradea University Annals, Electrotechnical Fascicle, 2002, pp. 82-87. ISSN: 1223-2106. URL: <http://users.utcluj.ro/~szabol/SzaboL/Papers/Oradea2002Viorel2.pdf>.
52. Viorel I.A. – Husain I. – Chișu Ioana – Hedeșiu H.C. – Bíró K.Á. – Szabó L.: **Magnetic Field Analysis for a Reluctance Synchronous Machine**, Oradea University Annals, Electrotechnical Fascicle, 2002, pp. 78-81. ISSN: 1223-2106. URL: <http://users.utcluj.ro/~szabol/SzaboL/Papers/Oradea2002Viorel1.pdf>.
53. Szabó L.: **Field Analysis of a Three Phase Modular Double Salient Linear Motor by Means of FEM**, Oradea University Annals, Electrotechnical Fascicle, 2002, pp. 72-77. ISSN: 1223-2106. URL: <http://users.utcluj.ro/~szabol/SzaboL/Papers/Oradea2002Szabo.pdf>.

54. Viorel I.A. – Szabó L. – Ciorba R.C.: **Integrated Motor and Control Unit for Industrial Variable Speed Drive Systems**, Proceedings of the First International Workshop on Electrical Drives and Control Systems in Industry, Cluj, 2002, pp. 40-47.  
URL: <http://users.utcluj.ro/~szabol/Szabol/Papers/FROSysConf2002.pdf>.
55. Szabó L.: **Metodele prelucrării datelor obținute pe cale experimentală** (în limba maghiară), Curs de terminologie în limba maghiară pentru studenții Facultății de Electrotehnică (anul universitar 2001-2002), Societatea Maghiară Tehnico-Științifică din Transilvania, 2002, pp. 3-13. ISBN: 973-85809-5-1.
56. Szabó L.: **Tendințe noi în domeniul producției mașinilor electrice** (în limba maghiară), Curs de terminologie în limba maghiară pentru studenții Facultății de Electrotehnică (anul universitar 2001-2002), Societatea Maghiară Tehnico-Științifică din Transilvania, 2002, pp. 42-54. ISBN: 973-85809-5-1.
57. Szabó L. – Bíró K.Á. – Dobai J.B.: **Dispozitive destinate diagnostizării mașinilor de inducție în vederea măririi eficienței utilizării lor**, (în limba maghiară), Conferința de energetică și electrotehnică ENELKO 2002, Cluj, pp. 127-134. ISBN: 973-85809-7-8.
58. Szabó L. – Lelkes A.: **Variable Reluctance PM Synchronous Motors: A Short History and New Developments**, Proceedings of the Workshop on Variable Reluctance Electrical Machines, Cluj, 2002, pp. 22-27. ISBN: 973-662-120-0.  
URL: [http://szabol0.tripod.com/WorkshopVRM/Workshop\\_VRM\\_5.pdf](http://szabol0.tripod.com/WorkshopVRM/Workshop_VRM_5.pdf).
59. Szabó L. – Viorel I.A. – Szépi I.: **FEM Analysis of a Three-Phase Modular Doubly Salient Linear Motor**, Proceedings of the Workshop on Variable Reluctance Electrical Machines, Cluj, 2002, pp. 48-51. ISBN: 973-662-120-0.  
URL: [http://szabol0.tripod.com/WorkshopVRM/Workshop\\_VRM\\_10.pdf](http://szabol0.tripod.com/WorkshopVRM/Workshop_VRM_10.pdf).
60. Szabó L. – Viorel I.A. – Dobai J.B.: **Multi-Level Modelling of a Modular Double Salient Linear Motor**, Proceedings of the 4<sup>th</sup> International Symposium on Mathematical Modelling (MATHMOD '2003), Viena (Austria), pp. 739-745, pe CD: 115-Text-Lorand-Szabo.pdf. ISBN: 3-901-608-24-9.
61. Szabó L.: **Medii de programare uzuale în ingineria electrică – MATLAB**, Editura MEDIAMIRA, Cluj-Napoca, 2003. ISBN: 973-9357-23-7. 191 pagini.
62. Szabó L. – Dobai J.B.: **Coupled SIMULINK-SIMPLORER Model of a Modular Hybrid Linear Stepper Motor**, Proceedings of the International Scientific Conference MicroCAD '2003, Miskolc, Ungaria, Section J (Electrotehnics and Electronics), pp. 75-80. ISBN: 963-661-556-X.
63. Szabó L. – Bíró K.Á. – Dobai J.B.: **On the Rotor Bar Faults Detection in Induction Machines**, Proceedings of the International Scientific Conference MicroCAD '2003, Miskolc, Ungaria, Section J (Electrotehnics and Electronics), pp. 81-86. ISBN: 963-661-556-X.
64. Viorel I.A. – Szabó L. – Ciorba R.C. – Barz V.: **Reluctance Synchronous Machine Based Compact Variable Speed Drive System**, Oradea University Annals, Electrotechnical Fascicle, 2003, pp. 340-347. ISSN: 1223-2106.
65. Szabó L. – Bíró K.Á. – Dobai J.B.: **Non-Invasive Rotor Bar Faults Diagnosis of Induction Machines Using Virtual Instrumentation**, Oradea University Annals, Electrotechnical Fascicle, 2003, pp. 313-320. ISSN: 1223-2106.
66. Szabó L. – Dobai J.B.: **On the Usefulness of Coupling Different Simulation Environments**, Oradea University Annals, Electrotechnical Fascicle, 2003, pp. 321-328. ISSN: 1223-2106.
67. Viorel I.A. – Szabó L. – Steț C.: **Dynamic Regime of the Transverse Flux Reluctance Motor**, Zilele Academice Timișene, Simpozion de Electrotehnică și Energetică, Timișoara, 2003, pe CD: Dynamic Regime.pdf.
68. Fodor D. – Szalay L. – Vass J. – Bíró K. – Szabó L.: **Experimental Investigation on Robust Control of Induction Motor Using  $H_{\infty}$  Output Feedback Controller**, Proceedings of the International Conference on Electrical Drives and Power Electronics (EDPE' 2003), Podbanské (Slovakia), pp. 602-607, pe CD: 086.pdf. ISBN: 80-89061-46-X.
69. Fodor D. – Szalay L. – Vass J. – Bíró K.Á. – Szabó L. – Dobai B.J.: **Controlul motorului de inducție cu ajutorul controlerului  $H_{\infty}$** , (în limba maghiară), Conferința de energetică și electrotehnică ENELKO 2003, Cluj, pp. 64-72. ISBN: 973-86097-5-5.
70. Szabó L. – Szabó G.S.: **Celule de combustie pentru automobile**, (în limba maghiară), Conferința de energetică și electrotehnică ENELKO 2003, Cluj, pp. 197-208. ISBN: 973-86097-5-5.
71. Szabó L. – Dobai J.B. – Bíró K.Á.: **Rotor Faults Detection in Squirrel-Cage Induction Motors by Current Signature Analysis**, Proceedings of the 2004 IEEE-TTTC - International Conference on Automation, Quality and Testing, Robotics, A&QT-R 2004 (THETA 14), Cluj, Tome I., pp. 353-358, pe CD: 2569\_Szabo.pdf. ISBN: 973-713-046-4.

72. Szabó L. – Bíró K.Á. – Dobai B.J. – Fodor D. – Vass J.: **Wound Rotor Induction Machine's Rotor Faults Detection Method Based on Wavelet Transform**, Oradea University Annals, Electrotechnical Fascicle, 2004, pp. 127-133. ISSN: 1223-2106. URL: <http://users.utcluj.ro/~szabol/Szabol/Papers/Oradea2004Szabo1.pdf>
73. Szabó L. – Viorel I.A. – Iancu V. – Popa D.C.: **Soft Magnetic Composites Used in Transverse Flux Machines**, Oradea University Annals, Electrotechnical Fascicle, 2004, pp. 134-141. ISSN: 1223-2106. URL: <http://users.utcluj.ro/~szabol/Szabol/Papers/Oradea2004Szabo2.pdf>
74. Şteţ C. – Viorel, I.A. – Szabó L. – Löwenstein L.: **Hybrid Electric Vehicles Based on Switched Reluctance Motor Drives**, Oradea University Annals, Electrotechnical Fascicle, 2004, pp. 167-171. ISSN: 1223-2106. URL: <http://users.utcluj.ro/~szabol/Szabol/Papers/Oradea2004Stet.pdf>.
75. Viorel I.A. – Szabó L. – Ciorba R.C. – Barz V. – Puklus Z.: **Synchronous Reluctance Machine Based Compact Variable Speed Drive System**, Proceedings of the International Conference on Power Conversion & Intelligent Motion (PCIM), Nürnberg, 2004, vol. 2, pp. 201-206, pe CD: S2c-4.pdf. ISBN: 3-928643-39-8.
76. Szabó L. – Viorel I.A. – Szépi I.: **Linear and Planar Variable Reluctance Motors for Flexible Manufacturing Cells**, Advances in Electrical and Electronic Engineering (Slovakia), no. 2, vol. 3, 2004, pp. 39-42. ISSN: 1336-1376.
77. Viorel I.A. – Szabó L. – Ciorba R.C. – Barz V.: **Intelligent Compact Drive System with a Synchronous Variable Reluctance Motor**, Advances in Electrical and Electronic Engineering (Slovakia), no. 2, vol. 3, 2004, pp. 47-50. ISSN: 1336-1376.
78. Szabó L. – Dobai J.B. – Bíró K.Á.: **Virtual Instruments for Detecting Rotor Faults in Induction Motors**, Advances in Electrical and Electronic Engineering (Slovakia), no. 2, vol. 3, 2004, pp. 119-122. ISSN: 1336-1376.
79. Viorel I.A. – Szabó L. – Gutman M. – Puklus Z.: **Transverse Flux Motor Drive Dynamics**, Proceedings of the 8<sup>th</sup> IEEE International Conference on Intelligent Engineering Systems INES '2004, Cluj (Romania), 2004, pp. 393-396. ISBN: 973-662-120-0.
80. Szabó L. – Bíró K.Á. – Dobai B.J. – Fodor D. – Vass J.: **Wavelet Transform Approach to Rotor Faults Detection in Induction Motors**, Proceedings of the 8<sup>th</sup> IEEE International Conference on Intelligent Engineering Systems INES '2004, Cluj (Romania), 2004, pp. 397-402. ISBN: 973-662-120-0.
81. Viorel I.A. – Crivii M. – Löwenstein L. – Szabó L. – Gutman M.: **Direct Drive Systems with Transverse Flux Reluctance Motors**, Acta Electrotehnica, vol. 44, no. 3, 2004, pp. 33-40. ISSN: 1841-3323.
82. Viorel I.A. – Szabó L. – Löwenstein L. – Şteţ C.: **Integrated Starter-Generators for Automotive Applications**, Acta Electrotehnica, vol. 44, no. 3, 2004, pp. 255-260. ISSN: 1841-3323.
83. Szabó L.: **Tendinţe noi în acţionarea automobilelor nepoluante** (în limba maghiară), Műszaki Szemle, vol. 25, Cluj (Romania), 2004, pp. 44-54. ISSN: 1454-0746.
84. Szabó L. – Viorel I.A. – Dobai B.J. – Szépi I.: **Optimal Trajectory Generation for a Modular Planar Motor Used in Flexible Manufacturing Systems**, Proceedings of the 11<sup>th</sup> International Power Electronics and Motion Control Conference (EPE-PEMC '2004), Riga (Lituania), pe CD: A53272.pdf. ISBN: 9984-32-070-7.
85. Szabó L.: **Motoarele pas cu pas** (în limba maghiară), Dezvoltări şi modelări în domeniul ingineriei electrice – Curs de terminologie în limba maghiară pentru studenţii Facultăţii de Electrotehnică (anul universitar 2002-2003), Societatea Maghiară Tehnico-Ştiinţifică din Transilvania, Cluj (Romania), 2004, pp. 65-74. ISBN: 973-86852-6-5.
86. Szabó L.: **Defectele maşinilor electrice şi diagnosticarea lor** (în limba maghiară), Dezvoltări şi modelări în domeniul ingineriei electrice – Curs de terminologie în limba maghiară pentru studenţii Facultăţii de Electrotehnică (anul universitar 2002-2003), Societatea Maghiară Tehnico-Ştiinţifică din Transilvania, Cluj (Romania), 2004, pp. 75-85. ISBN: 973-86852-6-5.
87. Fodor D. – Vass J. – Tóth R. – Bíró K.Á. – Szabó L. – Dobai B.J.: **Comanda LPV H<sub>∞</sub> fără senzori de viteză a motorului de inducţie**, (în limba maghiară), Conferinţa de energetică şi electrotehnică ENELKO 2004, Cluj (Romania), pp. 73-85. ISBN: 973-86852-9-X.
88. Szabó L.: **Starter-generator integrat pentru vehicule hibride**, (în limba maghiară), Conferinţa de energetică şi electrotehnică ENELKO 2004, Cluj (Romania), pp. 172-178. ISBN: 973-86852-9-X. URL: <http://users.utcluj.ro/~szabol/Szabol/Papers/ENELKO2004.pdf>.
89. Dobai B.J. – Szabó L. – Bíró K.Á.: **FEM Based Transient Motion Analysis of Induction Machines Having Broken Rotor Bars**, Proceedings of the International Scientific Conference MicroCAD '2005, Miskolc, Ungaria, Section J (Electrotehnics and Electronics), pp. 13-18. ISBN: 963-661-656-6.

90. Szabó L.: **Defectele tipice ale mașinilor electrice și diagnosticarea lor** (în limba maghiară), A XV-a Conferință și Expoziție de Diaagnoză, Lajosmizse (Ungaria), 2005, pp. 19-33. ISBN: 963-217-741-X.
91. Szabó L. – Viorel I.A. – Tóth F. – Szépi I.: **High Performance Linear and Surface Motors for Advanced Flexible Manufacturing Systems**, Oradea University Annals, Electrotechnical Fascicle, 2005, pp. 170-175. ISSN: 1223-2106.
92. Viorel I.A. – Popan A.D. – Szabó L. – Ciorba R.C.: **Direct Drive System with Two Phase Transverse Flux Disc-Type Motor**, Proceedings of the International Conference on Power Electronics, Intelligent Motion and Power Quality (PCIM 2005), Nürnberg, 2005, pp. 303-308. ISBN 3-928643-41-X.
93. Bíró K.Á. – Viorel I.A. – Szabó L. – Henneberger G.: **Mașini electrice speciale**, Editura Mediamira, Cluj-Napoca, 2005. ISBN: 973-713-055-3. 258 pagini.
94. Szabó L. – Dobai B.J. – Bíró K.Á. – Fodor D. – Tóth F.: **Study on Squirrel Cage Faults of Induction Machines by Means of Advanced FEM Based Simulations**, Proceedings of the International Conference on Electrical Drives and Power Electronics (EDPE' 2005), Dubrovnik (Croatia), pe CD: E05-78.pdf. ISBN: 953-6037-43-2.
95. Szabó L. – Dobai B.J. – Bíró K.Á.: **Discrete Wavelet Transform Based Rotor Faults Detection Method for Induction Machines**, Intelligent Systems at the Service of Mankind, vol. 2., (eds: Elmenreich, W., Machado, J.T., Rudas, I.J.), Ubooks, Augsburg (Germania), 2005, pp. 63-74. ISBN: 3-86608-052-2.
96. Popa D.C. – Iancu V. – Viorel I.A. – Szabó L.: **C.A.D. of Linear Transverse Flux Motors**, Buletinul Institutului Politehnic Iași, Tomul LI (LV), Fasc. 5, Electrotehnică, Energetică, Electronică, 2005, pp. 79-84. ISSN: 1223-8139.
97. Tóth F. – Szabó L.: **Comentariu asupra expresiei care descrie câmpul magnetic al mașinilor electrice** (în limba maghiară), Conferința internațională de energetică și electrotehnică ENELKO 2005, Cluj (Romania), 2005, pp. 181-186. ISBN: 973-7840-06-2.
98. Dobai B.J. – Szabó L. – Bíró K.Á. – Fodor D.: **Analiza mașinii de inducție cu bare rotorice rupte prin metoda elementelor finite** (în limba maghiară), Conferința internațională de energetică și electrotehnică ENELKO 2005, Cluj (Romania), 2005, pp. 27-32. ISBN: 973-7840-06-2.
99. Szabó L.: **Generatoare liniare destinate centralelor electrice bazate pe energia valurilor** (în limba maghiară), Conferința internațională de energetică și electrotehnică ENELKO 2005, Cluj (Romania), 2005, pp. 161-168. ISBN: 973-7840-06-2.
100. Viorel I.A. – Szabó L. – Tomescu Ilinca: **Electrical Machines Computer Simulation by Using Circuit-Field Models**, Acta Electrotehnica, vol. 45, no. 4, 2005, pp. 195-203. ISSN: 1841-3323.
101. Szabó L. – Popa D.C. – Iancu V. – Kovács E. – Tóth F.: **3D FEM Models of Linear Electrical Machines Used in Fault Detection Studies**, Proceedings of the International Scientific Conference MicroCAD '2006, Miskolc (Ungaria), Section J (Electrotehnics and Electronics), pp. 89-94. ISBN: 963-661-710-4.
102. Viorel I.A. – Fodorean D. – Viorel A. – Szabó L.: **Stand-Alone Double-Excited Synchronous Generator Operating on a Variable Load**, Proceedings of the International Conference on Power Electronics, Intelligent Motion and Power Quality (PCIM '2006), Nürnberg, 2006, pp. 675-680. ISBN: 3-928643-43-6.
103. Szabó L. – Viorel I.A. – van Duijsen P.: **Developing Control Techniques for Two-Coordinate Planar Positioning Systems by Means of Coupled Advanced Simulation Tools**, Proceedings of the International Conference on Power Electronics, Intelligent Motion and Power Quality (PCIM '2006), Nürnberg, 2006, pp. 705-710. ISBN: 3-928643-43-6.
104. Szabó L. – Popa D.C. – Iancu V. – Kovács E. – Tóth F.: **On the Usefulness of Simulation in Designing a Permanent Magnet Modular Surface Motor for Advanced Mechatronic Systems**, Proceedings of the 2006 IEEE International Conference on Mechatronics (ICM '2006), Budapest (Ungaria), 2006, pp. 88-93. ISBN: 1-4244-9712-6. (SCOPUS, IEEE Xplore)
105. Szabó L. – Popa D.C. – Iancu V.: **Compact Double Sided Modular Linear Motor for Narrow Industrial Applications**, Proceedings of the 12<sup>th</sup> International Power Electronics and Motion Control Conference (EPE PEMC '2006), Portoroz (Slovenia), 2006, pp. 1064-1069. ISBN: 1-4244-0121-6. (ISIProc)
106. Martiș Claudia – Hedeșiu H.C. – Szabó L. – Tătăranu B. – Jurcă F. – Oprea C.: **Electrical Machines Virtual Laboratory: Grid Connection of a Synchronous Generator**, Proceedings of the 12<sup>th</sup> International Power Electronics and Motion Control Conference (EPE-PEMC '2006), Portoroz (Slovenia), 2006, pp. 1709-1714. ISBN: 1-4244-0121-6. (ISIProc)

107. Szabó L. – Oprea C.: **Linear Generators for Wave Power Plants to Be Set up Near the Romanian Coasts of the Black Sea**, Oradea University Annals, Electrotechnical Fascicle, Computer Science and Control Systems Session, 2006, pp. 120-125. ISSN: 1841-7213.
108. Szabó L. – Bíró K.Á. – Fodor D. – Kovács E.: **Improved Condition Monitoring System for Induction Machines Using a Model-Based Fault Detection Approach**, Oradea University Annals, Electrotechnical Fascicle, Computer Science and Control Systems Session, 2006, pp. 126-131. ISSN: 1841-7213.
109. Iancu V. – Popa D.C. – Szabó L. – Ruba M. – Trifu E.: **Comparative Study on Linear Transverse Flux Reluctance Machines**, Oradea University Annals, Electrotechnical Fascicle, Electrical Engineering Session, 2006, pp. 136-139. ISSN: 1841-7221.
110. Iancu V. – Canta T. – Popa D.C. – Szabó L.: **Soft Magnetic Composites Used for the Iron Core of the Electrical Machines**, Proceedings of the 4<sup>th</sup> International Conference on Materials and Manufacturing Technologies, Cluj (Romania), 2006, pp. 125, ISBN: 973-751-300-2.
111. Popa D.C. – Iancu V. – Szabó L.: **Linear Transverse Flux Reluctance Machine with Permanent Magnets**, Proceeding of the International Conference on Transversal Flux Machines (ICTFM '2006), Changwon (Coreea de Sud), pp. 85-90, ISBN: 89-87898-13-5.
112. Fodor A. – Fodor D. – Bíró K.Á. – Szabó L.: **Protocolul de comunicații industriale CAN**, (în limba maghiară), Conferința internațională de energetică și electrotehnică ENELKO 2006, Cluj (Romania), 2006, pp. 23-28. ISSN: 1842-4546.
113. Szabó L. – Bíró K.Á. – Fodor D. – Fodor A.: **Utilizarea metodelor bazate pe model în diagnoza mașinilor de inducție**, (în limba maghiară), Conferința internațională de energetică și electrotehnică ENELKO 2006, Cluj (Romania), 2006, pp. 112-116. ISSN: 1842-4546.
114. Szabó L. – Kovács E. – Bíró K.Á. – Dobai J.B. – Blága Cs.: **Sisteme de achiziții de date avansate utilizate în monitorizarea și diagnoza mașinilor electrice**, (în limba maghiară), Conferința internațională de energetică și electrotehnică ENELKO 2006, Cluj (Romania), 2006, pp. 117-121. ISSN: 1842-4546.
115. Tóth F. – Szabó L.: **Diagnoza echipamentelor electrice bazată pe modificările fluxurilor de scăpări. Partea I-a: Calcularea câmpurilor magnetice exterioare**, (în limba maghiară), Conferința internațională de energetică și electrotehnică ENELKO 2006, Cluj (Romania), 2006, pp. 143-148. ISSN: 1842-4546.
116. Viorel I.A. – Munteanu R. – Fodorean D. – Szabó L.: **On The Possibility To Use A Hybrid Synchronous Machine As An Integrated Starter-Generator**, Proceedings of the IEEE International Conference on Industrial Technology (ICIT '2006), Mumbai (India), 2006, pe CD: IF-004243.pdf, ISBN 1-4244-0726-5. (ISIProc)
117. Dobai B.J. – Szabó L. – Bíró K.Á. – Kovács E.: **Fault Detection Algorithm For Condition Monitoring of Squirrel Cage Induction Machines**, Proceedings of the International Scientific Conference MicroCAD '2007, Miskolc (Ungaria), Section J (Electrotehnics and Electronics), pp. 19-22. ISBN: 978-963-661-751-6.
118. Oprea C. – Szabó L. – Bíró K.Á.: **FEM Based Analysis Of Advanced Linear Generators For Wave Power Plants**, Proceedings of the International Scientific Conference MicroCAD '2007, Miskolc (Ungaria), Section J (Electrotehnics and Electronics), pp. 47-52. ISBN: 978-963-661-751-6.
119. Popa D.C. – Iancu V. – Szabó L.: **Modular Linear Transverse Flux Reluctance Motor**, Proceedings of the International Scientific Conference MicroCAD '2007, Miskolc (Ungaria), Section J (Electrotehnics and Electronics), pp. 53-58. ISBN: 978-963-661-751-6.
120. Szabó L. – Oprea C. – Viorel I.A. – Bíró K.Á.: **Novel Permanent Magnet Tubular Linear Generator for Wave Energy Converters**, Proceedings of the IEEE International Conference on Electrical Machines and Drives (IEMDC '2007), Antalya (Turcia), vol. 2, pp. 983-987. ISBN: 1-4244-0742-7. (ISIProc)
121. Szabó L. – Oprea C.: **Wave Energy Plants for the Black Sea – Possible Energy Converter Structures**, Proceedings of the International Conference on Clean Electrical Power (ICCEP '2007), Capri (Italia), 2007, pp. 306-311 și pe CD: B111.pdf. ISBN: 1-4244-0632-3. (SCOPUS, IEEE Xplore)
122. Szabó L. – Bíró K.Á. – Nicula Cosmina – Jurca F.: **Useful Simulation Tool for Induction Generators Used In Wind Power Plants**, Proceedings of the International Conference on Clean Electrical Power (ICCEP '2007), Capri (Italia), 2007, pp. 574-579 și pe CD: B331.pdf. ISBN: 1-4244-0632-3. (SCOPUS, IEEE Xplore)

123. Szabó L. – Bíró K.Á. – Nicula Cosmina – Jurca F.: **Simulation of Wind Turbine Driven Autonomous Squirrel Cage Induction Generators**, Proceedings of the 11<sup>th</sup> IEEE International Conference on Intelligent Engineering Systems (INES '2007), Budapest (Ungaria), 2007, pp. 213-218, ISBN: 1-4244-1147-5. (ISIProc)
124. Szabó L. – Viorel I.A. – Oprea C.: **Comparative Study By Means Of FEM Based Computations On The Linear Generators To Be Used In Wave Energy Converters**, Proceedings of the 16<sup>th</sup> International Conference on the Computation of Electromagnetic Fields (COMPUMAG '2007), Aachen (Germania), pp. 369-370.
125. Szabó L. – Kovács E. – Tóth F. – Fekete G.: **Rotor Faults Detection Method for Squirrel Cage Induction Machines Based On the Park's Vector Approach**, Oradea University Annals, Electrotechnical Fascicle, Computer Science and Control Systems Session, 2007, pp. 234-239. ISSN: 1223-2106.
126. Szabó L. – Viorel I.A. – Ruba M. – Popa D.C.: **Comparative Study on Different Variable Reluctance Linear Machine Structures (With/Without Permanent Magnets)**, Proceedings of the Sixth International Symposium on Linear Drives for Industrial Applications (LDIA '2007), Lille (Franța), pe CD: 173.pdf. ISBN: 978-2-915913-20-0.
127. Popa D.C. – Iancu V. – Szabó L.: **Linear Transverse Flux Motor for Conveyors**, Proceedings of the Sixth International Symposium on Linear Drives for Industrial Applications (LDIA '2007), Lille (Franța), pe CD: 188.pdf. ISBN: 978-2-915913-20-0.
128. Popa D.C. – Iancu V. – Viorel I.A. – Szabó L.: **On the Design of the Modular Linear Transverse Flux Reluctance Motors**, Analele Universității din Craiova, Seria Inginerie electrică, anul 31, nr. 31, vol. II, 2007, pp. 77-80. ISSN: 1842-4805.
129. Fekete G. – Szabó L. – Tóth F.: **Descrierea matematică a funcționării mașinii de inducție având defecte utilizând programul MATLAB**, (în limba maghiară), Conferința internațională de informatică și energetică-electrotehnică SzámOkt-ENELKO 2007, Oradea (Romania), 2007, pp. 48-53. ISSN: 1842-4546.
130. Szabó L. – Bíró K.Á. – Fodor D. – Ruba M.: **Sisteme de acționare electrice tolerante la defecte**, (în limba maghiară), Conferința internațională de informatică și energetică-electrotehnică SzámOkt-ENELKO 2007, Oradea (Romania), 2007, pp. 157-160. ISSN: 1842-4546.
131. Tóth F. – Fekete G. – Kovács E. – Szabó L.: **Compararea metodelor de diagnoză a defectelor coliviei motoarelor de inducție**, (în limba maghiară), Conferința internațională de informatică și energetică-electrotehnică SzámOkt-ENELKO 2007, Oradea (Romania), 2007, pp. 184-193. ISSN: 1842-4546.
132. Popa D.C. – Iancu V. – Szabó L.: **Permanent Magnet Linear Transverse Flux Motors**, Proceedings of the International Scientific Conference MicroCAD '2008, Miskolc (Ungaria), Section J (Electrotehnics and Electronics), 2008, pp. 67-72. ISBN: 978-963-661-821-6.
133. Ruba M. – Szabó L. – Fodorean D.: **On the Fault Tolerant Switched Reluctance Machines**, Proceedings of the International Scientific Conference MicroCAD '2008, Miskolc (Ungaria), Section J (Electrotehnics and Electronics), 2008, pp. 73-78. ISBN: 978-963-661-821-6.
134. Popa D.C. – Iancu V. – Szabó L.: **Manufacturing Technologies of the Linear Transverse Flux Reluctance Machine**, Journal of Computer Science and Control Systems, Oradea, 2008, pp. 198-201. ISSN: 1844-6043.
135. Ruba M. – Szabó L.: **Fault Tolerant Electrical Machines. State of the Art and Future Directions**, Journal of Computer Science and Control Systems, Oradea, 2008, pp. 202-207. ISSN: 1844-6043.
136. Szabó L. – Tóth F. – Kovács E. – Fekete G.: **An Overview on Induction Machine's Diagnosis Methods**, Journal of Computer Science and Control Systems, Oradea, 2008, pp. 229-234. ISSN: 1844-6043.
137. Szabó L. – Ruba M. – Fodorean D.: **Simple Converter Structure for Fault Tolerant Motors**, Proceedings of the 2008 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR '2008) THETA 16, Cluj, 2008, pp. 244-249, ISBN: 978-1-4244-2576-1. (ISIProc)
138. Popa D.C. – Iancu V. – Szabó L.: **Improved Design of a Linear Transverse Flux Reluctance Motor**, Proceedings of the 11<sup>th</sup> International Conference on Optimization of Electrical and Electronic Equipment (OPTIM '2008), Brașov, 2008, pp. 137-142. ISBN: 1-4244-1545-4. (ISIProc)
139. Szabó L. – Ruba M. – Fodorean D.: **Study on a Simplified Converter Topology for Fault Tolerant Motor Drives**, Proceedings of the 11<sup>th</sup> International Conference on Optimization of Electrical and Electronic Equipment (OPTIM '2008), Brașov, 2008, pp. 197-202. ISBN: 1-4244-1545-4. (ISIProc)



140. Szabó L. – Feștilă C. – Dulf Éva – Oprea C.: **Low Power Wave Energy Converters for Sheltered Seas**, Proceedings of the International Conference on Power Electronics, Intelligent Motion and Power Quality (PCIM '2008), Nürnberg , 2008, pe CD: PP46.pdf. ISBN: 978-3-89838-605-0.
141. Fodorean D. – Ruba M. – Szabó L. – Miraoui A.: **Comparison of the Main Types of Fault-Tolerant Electrical Drives used in Automobile Applications**, Proceedings of the 19<sup>th</sup> International Symposium on Power Electronics, Electrical Drives, Automation and Motion (SPEEDAM '2008), Ischia (Italia), 2008, pp. 895-900, pe CD: TD\_282.pdf. ISBN: 978-1-4244-1664-6. (ISIProc)
142. Viorel I.A. – Szabó L. – Strete Larisa: **Speed-thrust Control of a Double Sided Linear Switched Reluctance Motor (DSL-SRM)**, Proceedings of the 18<sup>th</sup> International Conference on Electrical Machines (ICEM '2008), Vilamoura (Portugalia), pe CD: Fullpaper\_comm\_id00879.pdf. ISBN: 978-1-4244-1736-0. (ISIProc)
143. Szabó L. – Oprea C. – Feștilă C. – Dulf Éva: **Study on a Wave Energy Based Power System**, Proceedings of the 18<sup>th</sup> International Conference on Electrical Machines (ICEM '2008), Vilamoura (Portugalia), pe CD: Fullpaper\_comm\_id01199.pdf. ISBN: 978-1-4244-1736-0. (ISIProc)
144. Ruba M. – Szabó L. – Strete Larisa – Viorel I.A.: **Study on Fault Tolerant Switched Reluctance Machines**, Proceedings of the 18<sup>th</sup> International Conference on Electrical Machines (ICEM '2008), Vilamoura (Portugalia), pe CD: Fullpaper\_comm\_id01200.pdf. ISBN: 978-1-4244-1736-0. (ISIProc)
145. Ruba M. – Szabó L. – Bíró K.Á. – Kovács E.: **Studiu comparativ al mașinilor electrice tolerante la defecte utilizate în automatizări industriale** (în limba maghiară), Conferința internațională de energetică-electrotehnică și informatică IX. ENELKO – XVIII. SzámOkt 2008, Șumuleu-Ciuc (Romania), 2008, pp. 58-63. ISSN: 1842-4546.
146. Kovács E. – Füvesi V. – Szalontai L. – Szabó L.: **Modelarea actualelor electrice în mediul Scilab** (în limba maghiară), Conferința internațională de energetică-electrotehnică și informatică IX. ENELKO – XVIII. SzámOkt 2008, Șumuleu-Ciuc (Romania), 2008, pp. 26-31. ISSN: 1842-4546.
147. Kovács E. – Füvesi V. – Szabó L. – Ruba M.: **Model Based Dynamic Analysis of a Robot Actuator with BLDC Drive**, Proceedings of the International Scientific Conference MicroCAD '2009, Miskolc (Ungaria), Section J (Electrotehnics and Electronics), 2009, pp. 45-50. ISBN: 978-963-661-875-9.
148. Ruba M. – Szabó L. – Füvesi V. – Kovács E.: **Diagnosis of Advanced Fault Tolerant Switched Reluctance Machines Used In Safety Automated Industrial Systems**, Proceedings of the International Scientific Conference MicroCAD '2009, Miskolc (Ungaria), Section J (Electrotehnics and Electronics), 2009, pp. 87-92. ISBN: 978-963-661-875-9.
149. Crețu T. – Szabó L. – Munteanu R.A. – Iudean D.: **On Fault Detection and Fault Tolerant Performance of Permanent Magnet Synchronous Motor Drives**, Proceedings of the International Scientific Conference MicroCAD '2009, Miskolc (Ungaria), Section J (Electrotehnics and Electronics), 2009, pp. 101-106. ISBN: 978-963-661-875-9.
150. Fodor A. – Fodor D. – Bíró K.Á. – Szabó L.: **Dezvoltări pentru diagnoza rețelelor CAN**, (în limba maghiară), Múszaki Szemle, Cluj (Romania), vol. 45, pp. 10-15, 2009. ISSN: 1454-0746.
151. Ruba M. – Szabó L. – Hopper E.: **FEM Based Studies on Fault Tolerant Modular Linear Motors**, Proceedings of the International Conference on Power Electronics, Intelligent Motion and Power Quality (PCIM '2009), Nürnberg, 2009, pp. 639-644. ISBN: 978-3-8007-3158-9.
152. Szabó L. – Ruba M.: **On Fault Tolerance Increase of Switched Reluctance Machines**, Proceedings of the IEEE Region 8 EUROCON Conference (EUROCON '2009), St. Petersburg (Rusia), 2009, pp. 734-739. ISBN: 978-1-4244-3860-0. (ISIProc)
153. Ruba M. – Oprea C. – Szabó L.: **Comparative Study on Switched Reluctance Machine Based Fault-Tolerant Electrical Drive Systems**, Proceedings of the IEEE International Conference on Electrical Machines and Drives (IEMDC '2009), Miami (USA), 2009, pp. 1199-1204 și pe CD: IEMDC2009-11129.pdf. ISBN: 978-1-4244-4252-2. (ISIProc)
154. Fodorean D. – Szabó L. – Miraoui A.: **Generator Solutions For Stand Alone Pico-Electric Power Plants**, Proceedings of the IEEE International Conference on Electrical Machines and Drives (IEMDC '2009), Miami (USA), 2009, pp. 522-526 și pe CD: IEMDC2009-11165.pdf. ISBN: 978-1-4244-4252-2. (ISIProc)
155. Szász Cs. – Chindriș V. – Szabó L.: **Modeling and Simulation of Embryonic Hardware Structures Designed on FPGA-based Artificial Cell Network Topologies**, Proceedings of the 23<sup>rd</sup> European Conference on Modelling and Simulation (ECMS '2009), Madrid (Spania), 2009, pp. 613-617, ISBN: 978-0-9553018-8-9. (ISIProc)

156. Szabó L. – Ruba M.: **Using Co-Simulations in Fault Tolerant Machine's Study**, Proceedings of the 23<sup>rd</sup> European Conference on Modelling and Simulation (ECMS '2009), Madrid (Spania), 2009, pp. 756-762, ISBN: 978-0-9553018-8-9. (ISIProc)
157. Szabó L. – Ruba M. – Jurca F.: **Fault Tolerant Switched Reluctance Machine for Wind Turbine Blade Pitch Control**, Proceedings of the International Conference on Clean Electrical Power (ICCEP '2009), Capri (Italia), 2009, pp. 721-726 și pe CD: SP212.pdf. ISBN: 978-1-4244-2543-3. (ISIProc)
158. Szabó L. – Ruba M. – Kovács E. – Füvesi V.: **Fault Tolerant Modular Linear Motor for Safe-Critical Automated Industrial Applications**, Journal of Computer Science and Control Systems, vol. 2, no. 1, 2009, pp. 128-131. ISSN: 1844-6043.
159. Iancu V. – Popa D.C. – Szabó L.: **Fault Tolerant Modular Linear Transverse Flux Reluctance Machines**, Journal of Computer Science and Control Systems, vol. 2, no. 2, 2009, pp. 93-96. ISSN: 1844-6043.
160. Ruba M. – Szabó L.: **Fault Tolerance Study of Switched Reluctance Machines by Means of Advanced Simulation Techniques**, Pollack Periodica (Academic Publisher, Budapest), vol. 4, no. 2 (August 2009), pp. 107-116. ISSN: 1788-1994. (SCOPUS)
161. Ruba M. – Szabó L.: **Fault Tolerant Switched Reluctance Machine's Comparative Analysis**, Proceedings of the 3<sup>rd</sup> International Symposium on Electrical Engineering and Energy Converters (ELS '2009), Suceava, 2009, pp. 75-80. ISSN: 2066-835X.
162. Szabó L. – Fodorean D.: **Simularea ansamblului convertor – mașină utilizat în sisteme electromecanice**, Editura U.T. Press, Cluj, 2009. ISBN: 978-973-662-480-3. 210 pagini.
163. Kovács E. – Füvesi V. – Szabó L.: **Studiul comportamentului haotic al unui sistem cu actuator** (în limba maghiară), Conferința internațională de energetică-electrotehnică și informatică X. ENELKO – XIX. SzámOkt 2009, Târgu-Mureș, 2009, pp. 84-87. ISSN: 1842-4546.
164. Szabó L. – Ruba M. – Terec R. – Benția Ioana – Kovács E.: **Studiul toleranței la defecte a mașinilor liniare modulare** (în limba maghiară), Conferința internațională de energetică-electrotehnică și informatică X. ENELKO – XIX. SzámOkt 2009, Târgu-Mureș, 2009, pp. 140-145. ISSN: 1842-4546.
165. Szabó L.: **Researches in the Field of Variable Reluctance Electrical Machines in Technical University Of Cluj**, Simpozionul de Mașini Electrice (SME '09) – Actualități și perspective în domeniul mașinilor electrice, București, 2009, pe CD: L5\_Szabo.pdf. ISSN: 1843-5912.
166. Szabó L. – Ruba M.: **Fault Tolerant Switched Reluctance Motor for Safety-Critical Automotive Applications**, International Journal of Electrical Engineering and Transportation (IJEET), vol. 5, no. 1, 2009, pp. 23-27, ISSN: 1773-9357.
167. Kovács E. – Füvesi V. – Szabó L.: **Analyses of servomechanism with BLDC motor drive**, Proceedings of the Doctoral Students Forum (DFTH '2009), Dunaújváros (Hungary), 2009.
168. Blága Cs. – Kovács E. – Szabó L.: **Simulation of performance curve of an alternator**, Proceedings of the International Scientific Conference MicroCAD '2010, Miskolc (Ungaria), Section K (Electrotehnics and Electronics), 2010, pp. 7-12, ISBN: 978-963-661-915-2.
169. Benția Ioana – Ruba M. – Szabó L.: **Modular Electrical Machines – A Survey**, Proceedings of the International Scientific Conference MicroCAD '2010, Miskolc (Ungaria), Section K (Electrotehnics and Electronics), 2010, pp. 87-92, ISBN: 978-963-661-915-2.
170. Someșan, L. – Pădurariu, E. – Szabó L. – Ruba M. – Viorel I.A.: **Comments on Switched Reluctance Machine Mathematical Model**, Proceedings of the International Scientific Conference MicroCAD '2010, Miskolc (Ungaria), Section K (Electrotehnics and Electronics), 2010, pp. 97-102, ISBN: 978-963-661-915-2.
171. Crețu T. – Iudean D. – Szabó L. – Munteanu R.A.: **Study on the Influences of Degraded Stator and Rotor Materials on PMSM Vibrations**, Proceedings of the International Scientific Conference MicroCAD '2010, Miskolc (Ungaria), Section K (Electrotehnics and Electronics), 2010, pp. 133-138, ISBN: 978-963-661-915-2.
172. Kovács E. – Füvesi V. – Szabó L.: **Analyses of a Nonsmooth Actuator Drive**, Proceedings of the International Scientific Conference MicroCAD '2010, Miskolc (Ungaria), Section K (Electrotehnics and Electronics), 2010, pp. 139-144, ISBN: 978-963-661-915-2.
173. Szabó L. – Ruba M. – Terec, R. – Benția Ioana **Study of Fault Tolerant Modular Variable Reluctance Linear Machine**, Proceedings of the International Scientific Conference MicroCAD '2010, Miskolc (Ungaria), Section K (Electrotehnics and Electronics), 2010, pp. 145-150, ISBN: 978-963-661-915-2.

174. Szász Cs. – Chindriș V. – Szabó L.: **Computer Aided Modeling and Simulation of Bio-Inspired Hardware Systems**, Proceedings of the International Scientific Conference MicroCAD '2010, Miskolc (Ungaria), Section K (Electrotehnics and Electronics), pp. 151-156, ISBN: 978-963-661-915-2.
175. Ruba M. – Benția Ioana – Szabó L.: **Modular Fault Tolerant Switched Reluctance Machine – Design and Dynamic Simulations**, Proceedings of the 12<sup>th</sup> International Conference on Optimization of Electrical and Electronic Equipment (OPTIM '2010), Moieciu, 2010, pp. 441-446, ISBN: 978-973-131-7018-1. (ISIProc)
176. Ruba M. – Benția Ioana – Szabó L.: **Novel Modular Fault Tolerant Switched Reluctance Machine for Reliable Factory Automation Systems**, Proceedings of the 2010 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR '2010) THETA 17, Cluj, 2010, Tome III, pp. 47-52, ISBN: 978-1-4244-6722-8. (SCOPUS, IEEE Xplore)
177. Pădurariu E. – Someșan L. – Viorel I.A. – Szabó L. – Cornea O.: **Analytical Models of Switched Reluctance Motor Based on Two Dimensions Finite Element Analysis Results**, Journal of Computer Science and Control Systems, vol. 3, no. 1, 2010, pp. 159-162. ISSN: 1844-6043.
178. Terec R. – Ruba M. – Szabó L. – Kovács E.: **Fault Detection in Switched Reluctance Machines**, Journal of Computer Science and Control Systems, vol. 3, no. 1, 2010, pp. 231-236. ISSN: 1844-6043.
179. Ruba M. – Benția Ioana – Szabó L.: **Novel Modular Switched Reluctance Machine for Safety-Critical Applications**, Proceedings of the 19<sup>th</sup> International Conference on Electrical Machines (ICEM '2010), Roma (Italia), pe CD: RF-011029.pdf. ISBN: 978-1-4244-4175-4. (SCOPUS, IEEE Xplore)
180. Szabó L.: **Istoria vehiculelor electrice** (în limba maghiară), Conferința internațională de energetică-electrotehnică și informatică XI. ENELKO – XX. SzámOkt 2010, Satu Mare, 2010, pp. 77-84. ISSN: 1842-4546.
181. Benția Ioana – Szabó L.: **Rotary-Linear Machines – A Survey**, Journal of Computer Science and Control Systems, vol. 3, no. 2, 2010, pp. 11-14. ISSN: 1844-6043.
182. Harlișca C. – Arion M. – Szabó L. – Kovács E.: **Advanced Diagnosis Methods Used in Electrical Machine's Monitoring – A Literature Survey**, Proceedings of the International Scientific Conference MicroCAD '2011, Miskolc (Ungaria), Section I (Electrical Engineering), 2011, pp. 23-28, ISBN: 978-963-661-962-6.
183. Benția Ioana – Ruba M. – Szabó L.: **A Rotary-Linear Switched Reluctance Motor for Advanced Industrial Applications**, Proceedings of the International Conference on Power Electronics, Intelligent Motion and Power Quality (PCIM '2011), Nürnberg (Germania), 2011, pp. 947-952, ISBN: 978-3-8007-3344-6.
184. Chindriș V. – Terec R. – Ruba M. – Szabó L. – Rafajdus, P.: **Useful Software Tool for Simulating Switched Reluctance Motors**, Proceedings of the 25<sup>th</sup> European Conference on Modelling and Simulation (ECMS '2011), Krakow (Polonia), 2011, pp. 216-221. ISBN: 978-0-9564944-2-9. (SCOPUS)
185. Fodorean D. – Jurca F. – Oprea C. – Szabó L.: **Permanent Magnet Synchronous Machines with Improved Energetic Performances and Reduced Torque Ripples, used for Electric Vehicles**, Proceedings of the International Conference on Clean Electrical Power (ICCEP '2011), Ischia (Italia), 2011, pp. 289-292 și pe CD: P119.pdf. ISBN: 978-1-4244-8927-9. (SCOPUS, IEEE Xplore)
186. Oprea C. – Marțiș C. – Fodorean D. – Jurca F. – Szabó L.: **Permanent Magnet Linear Generator for Renewable Energy Applications: Tubular vs. Four-Sided Structures**, Proceedings of the International Conference on Clean Electrical Power (ICCEP '2011), Ischia (Italia), 2011, pp. 588-592 și pe CD: RP26.pdf. ISBN: 978-1-4244-8927-9. (SCOPUS, IEEE Xplore)
187. Káptalan Erna – Szabó L. – Szász Cs. – Néda Z.: **Collective Behavior – A General Survey**, Journal of Computer Science and Control Systems, vol. 4, no. 1, 2011, pp. 53-60. ISSN: 1844-6043.
188. Pădurariu E. – Someșan L. – Viorel I.A. – Szabó L.: **Design of a Permanent Magnet Transverse Flux Motor for Ship Propulsion System**, Journal of Computer Science and Control Systems, vol. 4, no. 1, 2011, pp. 129-132. ISSN: 1844-6043.
189. Ruba M. – Surdu Felicia – Szabó L.: **Study of a Nine-Phase Fault Tolerant Permanent Magnet Starter-Alternator**, Journal of Computer Science and Control Systems, vol. 4, no. 1, 2011, pp. 149-154. ISSN: 1844-6043.
190. Someșan L. – Pădurariu E. – Husain I. – Viorel I.A. – Szabó L.: **Simple Analytical Models of Switched Reluctance Motor for Design and Control Purpose**, Journal of Computer Science and Control Systems, vol. 4, no. 1, 2011, pp. 165-168. ISSN: 1844-6043.

191. Szabó L. – Káptalan Erna – Szász Cs.: **Applications of Collective Behavior Concepts in Flexible Manufacturing Systems**, Journal of Computer Science and Control Systems, vol. 4, no. 1, 2011, pp. 187-193. ISSN: 1844-6043.
192. Terec R. – Chindriş V. – Szabó L. – Mărginean C.: **Artificial Intelligence Based Electronic Control of Switched Reluctance Motors**, Journal of Computer Science and Control Systems, vol. 4, no. 1, 2011, pp. 193-198. ISSN: 1844-6043.
193. Popa D.C. – Szabó L. – Gliga I.V. – Iancu V.: **Design of a Novel Tubular Transverse Flux Reluctance Machine**, Proceedings of the Eighth International Symposium on Linear Drives for Industry Applications (LDIA '2011), Eindhoven (Olanda), pe CD: 183.pdf. ISBN: 978-90-386-2524-9.
194. Terec R. – Benția Ioana – Ruba M. – Szabó L. – Rafajdus P.: **Effects of Winding Faults on the Switched Reluctance Machine's Working Performances**, Proceedings of the 3<sup>rd</sup> IEEE International Symposium on Logistics and Industrial Informatics (LINDI '2011), Budapest (Ungaria), 2011, pp. 143-148. ISBN: 978-1-4577-1840-3. (SCOPUS, IEEE Xplore)
195. Benția Ioana – Ruba M. – Szabó L.: **On the Control of a Rotary-Linear Switched Reluctance Motor**, Proceedings of the 5<sup>th</sup> International Symposium on Computational Intelligence and Intelligent Informatics (ISCIII '2011), Floriana (Malta), 2011, pp. 41-46. ISBN: 978-1-4577-1859-5. (SCOPUS, IEEE Xplore)
196. Terec R. – Benția Ioana – Ruba M. – Szabó L. – Rafajdus P.: **On the Usefulness of Numeric Field Computations in the Study of the Switched Reluctance Motor's Winding Faults**, Proceedings of the 5<sup>th</sup> International Symposium on Computational Intelligence and Intelligent Informatics (ISCIII '2011), Floriana (Malta), 2011, pp. 117-120. ISBN: 978-1-4577-1859-5. (SCOPUS, IEEE Xplore)
197. Harlișca C. – Szabó L.: **Wavelet Analysis and Park's Vector Based Condition Monitoring of Induction Machines**, Journal of Computer Science and Control Systems, vol. 4, no. 2, 2011, pp. 35-38. ISSN: 1844-6043.
198. Fodorean D. – Szabó L.: **Analytical Design, Numerical Computation and Optimization of a Permanent Magnet Synchronous Machine Used for Electric Vehicle Propulsion**, Bulletin of the Polytechnic Institute of Iași, Section Electrotehnics, Energetics and Electronics, tome LVII (LXI), fasc. 6, pp. 73-80, 2011, ISSN: 1223-8139.
199. Oprea C. – Martiș C. – Szabó L.: **Free Piston Engine Driven Linear Generator for Hybrid Electric Vehicles**, Bulletin of the Polytechnic Institute of Iași, Section Electrotehnics, Energetics and Electronics, tome LVII (LXI), fasc. 6, pp. 127-134, 2011, ISSN: 1223-8139.
200. Popa D.C. – Szabó L. – Gliga V. – Iancu V.: **On the Tubular Transverse Flux Reluctance Motor's Design**, Bulletin of the Polytechnic Institute of Iași, Section Electrotehnics, Energetics and Electronics, tome LVII (LXI), fasc. 6, pp. 135-142, 2011, ISSN: 1223-8139.
201. Harlișca C. – Hangiu R.P. – Szabó L. – Silaghi H.: **Broken Rotor Bars Detection in Squirrel-Cage Induction Machines by Motor Current Signature Analysis Method**, Scientific Bulletin of the Electrical Engineering Faculty, Târgoviște, vol. 11, no. 3 (17), pp. 20-25, 2012. ISSN: 1843-6188.
202. Chindriş V. – Terec R. – Ruba M. – Szabó L.: **Software Environment for Online Simulation of Switched Reluctance Machines**, Advances in Intelligent Modelling and Simulation (eds.: Byrski, A.; Oplatková, Z.; Carvalho, M.; Kisiel-Dorohinicki, M.), Simulation Tools and Applications Series: Studies in Computational Intelligence, vol. 416, pp. 85-109, Springer (Berlin), 2012. ISBN: 978-3-642-28887-6. (ISIBookChapt)
203. Kacenkova V. – Rafajdus, P. – Makys, P. – Vavrus, V. – Szabó L.: **Static and Dynamic Fault Analysis of Switched Reluctance Motor**, Proceedings of the 9<sup>th</sup> International Conference ELEKTRO 2012, Žilina - Rajecké Teplice (Slovakia), 2012, pp. 206-211, ISBN: 978-1-4673-1178-6. (SCOPUS, IEEE Xplore)
204. Pădurariu E. – Someșan L. – Viorel I.A. – Szabó L.: **Large Power Permanent Magnet Transverse Flux Motor, Steady-State and Dynamic Behavior**, Proceedings of the 9<sup>th</sup> International Conference ELEKTRO 2012, Žilina - Rajecké Teplice (Slovakia), 2012, pp. 221-224, ISBN: 978-1-4673-1178-6. (SCOPUS, IEEE Xplore)
205. Someșan L. – Pădurariu E. – Viorel I.A. – Szabó L.: **Design of a Permanent Magnet Flux-Switching Machine**, Proceedings of the 9<sup>th</sup> International Conference ELEKTRO 2012, Žilina - Rajecké Teplice (Slovakia), 2012, pp. 256-259, ISBN: 978-1-4673-1178-6. (SCOPUS, IEEE Xplore)

206. Terec R. – Chindriș V. – [Szabó L.](#) – Rafajdus P.: **Position Sensing System for Switched Reluctance Motor Control**, Proceedings of the 9<sup>th</sup> International Conference ELEKTRO 2012, Žilina - Rajecké Teplice (Slovakia), 2012, pp. 266-269, ISBN: 978-1-4673-1178-6. (SCOPUS, IEEE Xplore)
207. [Szabó L.](#) – Benția Ioana – Ruba M.: **Dual Motion Switched Reluctance Motor for Advanced Industrial Applications**, Proceedings of the 13<sup>th</sup> International Conference on Optimization of Electrical and Electronic Equipment (OPTIM '2012), Brașov, 2012, pp. 544-549, ISBN: 978-1-4673-1653-8. DOI: [10.1109/OPTIM.2012.6231831](https://doi.org/10.1109/OPTIM.2012.6231831). (SCOPUS, IEEE Xplore)
208. Popa D.C. – Gliga V. – [Szabó L.](#) – Iancu V.: **Tubular Transverse Flux Variable Reluctance Motor in Modular Construction**, Proceedings of the 13<sup>th</sup> International Conference on Optimization of Electrical and Electronic Equipment (OPTIM '2012), Brașov, 2012, pp. 572-577, ISBN: 978-1-4673-1653-8. DOI: [10.1109/OPTIM.2012.6231875](https://doi.org/10.1109/OPTIM.2012.6231875). (SCOPUS, IEEE Xplore)
209. [Szabó L.](#) – Benția Ioana – Popa D.C. – Ruba M.: **Contributions to the Two Degrees of Freedom Modular Variable Reluctance Motors Used in Advanced Manufacturing Systems**, Proceedings of the 2012 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR '2012) THETA 18, Cluj, pp. 514-518, 2012, ISBN: 978-1-4673-0703-1. DOI: [10.1109/AQTR.2012.6237765](https://doi.org/10.1109/AQTR.2012.6237765), WOS: 000400227100093. (ISIProc, SCOPUS, IEEE Xplore)
210. Ruba M. – [Szabó L.](#) – Fodorean D.: **Design and Analysis of Low Voltage High Current SRM for Small Automotive Applications**, Proceedings of the 2012 International Symposium on Power Electronics, Electrical Drives, Automation and Motion (SPEEDAM '2012), Sorrento (Italy), pp. 341-346, 2012. ISBN: 978-1-4673-1300-1. DOI: [10.1109/SPEEDAM.2012.6264443](https://doi.org/10.1109/SPEEDAM.2012.6264443) (SCOPUS, IEEE Xplore)
211. Benția Ioana – [Szabó L.](#) – Ruba M.: **On a Rotary-Linear Switched Reluctance Motor**, Proceedings of the 2012 International Symposium on Power Electronics, Electrical Drives, Automation and Motion (SPEEDAM '2012), Sorrento (Italy), pp. 507-510, 2012. ISBN: 978-1-4673-1300-1. DOI: [10.1109/SPEEDAM.2012.6264442](https://doi.org/10.1109/SPEEDAM.2012.6264442) (SCOPUS, IEEE Xplore)
212. Fodorean D. – [Szabó L.](#): **Control of a Permanent Magnet Synchronous Motor for Electric Scooter Application**, Proceedings of the 2012 International Symposium on Power Electronics, Electrical Drives, Automation and Motion (SPEEDAM '2012), Sorrento (Italy), pp. 1178-1181, 2012. ISBN: 978-1-4673-1300-1. DOI: [10.1109/SPEEDAM.2012.6264494](https://doi.org/10.1109/SPEEDAM.2012.6264494) (SCOPUS, IEEE Xplore)
213. Benția Ioana – [Szabó L.](#) – Ruba M.: **A Novel Rotary-Linear Switched Reluctance Motor**, Journal of Computer Science and Control Systems, vol. 5, no. 1, 2012, pp. 13-16. ISSN: 1844-6043.
214. Popa D.C. – Gliga V. – [Szabó L.](#) – Iancu V.: **Analytical Analysis of the Tubular Transverse Flux Reluctance Motor**, Journal of Computer Science and Control Systems, vol. 5, no. 1, 2012, pp. 71-75. ISSN: 1844-6043.
215. Someșan L. – Pădurariu E. – Viorel I.A. – [Szabó L.](#): **Steady State and Dynamic Behavior of a Permanent Magnet Flux-Switching Machine**, Journal of Computer Science and Control Systems, vol. 5, no. 1, 2012, pp. 95-98. ISSN: 1844-6043.
216. Oprea C.A. – [Szabó L.](#) – Martiș C.S.: **Linear Permanent Magnet Electric Generator for Free Piston Engine Applications**, Proceedings of the 20<sup>th</sup> International Conference on Electrical Machines (ICEM '2012), Marseille (Franța), pp. 689-694, 2012, ISBN: 97-1-4673-0141-1. DOI: [10.1109/ICEIMach.2012.6349946](https://doi.org/10.1109/ICEIMach.2012.6349946) WOS: 000333806700104 (ISIProc, SCOPUS, IEEE Xplore)
217. [Szabó L.](#) – Benția Ioana – Ruba M.: **A Rotary-Linear Switched Reluctance Motor for Automotive Applications**, Proceedings of the 20<sup>th</sup> International Conference on Electrical Machines (ICEM '2012), Marseille (Franța), pp 2613-2619, 2012, ISBN: 978-1-4673-0141-1. DOI: [10.1109/ICEIMach.2012.6350254](https://doi.org/10.1109/ICEIMach.2012.6350254), WOS: 000333806702082 (ISIProc, SCOPUS, IEEE Xplore)
218. Gaeid K.F. – Ping H.W. – Masood M.K. – [Szabó L.](#): **Survey of Wavelet Fault Diagnosis and Tolerant of Induction Machines with Case Study**, International Review of Electrical Engineering (I.R.E.E.), vol. 7, no. 3 (May-June 2012), pp. 4437-4457. ISSN: 1827-6660. WOS: [000333806702082](https://doi.org/10.1109/IREE.2012.6231875) (ISI, SCOPUS)
219. Harlișca C. – [Szabó L.](#): **Bearing Faults Condition Monitoring – A Literature Survey**, Journal of Computer Science and Control Systems, vol. 5, no. 2, 2012, pp. 19-22. ISSN: 1844-6043.
220. [Szabó L.](#) – Ruba M.: **Segmental Stator Switched Reluctance Machine for Safety-Critical Applications**, IEEE Transactions on Industry Applications, vol. 48, no. 6 (November-December 2012), pp. 2223-2229, 2012, ISSN: 0093-9994. DOI: [10.1109/TIA.2012.2226857](https://doi.org/10.1109/TIA.2012.2226857), WOS: [000313364000046](https://doi.org/10.1109/TIA.2012.2226857) (ISIProc, SCOPUS, IEEE Xplore)

221. Szabó L. – Terec R. – Ruba M. – Rafajdus P.: **Reconfigurable Fault Tolerant Control System for Switched Reluctance Motors**, Electrical and Power Engineering Frontier, vol. 1, no. 1 (December 2012), pp. 1-7, 2012. ISSN: 2306-9368.  
URL: <http://www.academicpub.org/epef/paperInfo.aspx?PaperID=5447>.
222. Bîrte O. – Rusu T. – Martiş C.S. – Szabó L.: **A Survey on Reducing Noise and Vibrations in Some Electrical Machines Used in Automotive Applications**, Scientific Bulletin of the Electrical Engineering Faculty, Târgoviște, vol. 12, no. 2 (19), pp. 19-24, 2012. ISSN: 1843-6188.
223. Hangiu R.P. – Martiş C.S. – Szabó L. – Bíró K.Á.: **A Review of Automotive Integrated Starter Alternators**, Scientific Bulletin of the Electrical Engineering Faculty, Târgoviște, vol. 12, no. 2 (19), pp. 43-48, 2012. ISSN: 1843-6188.
224. Fodorean D. – Idoumghar L. – Szabó L.: **Motorization for an Electric Scooter by Using Permanent-Magnet Machines Optimized Based on a Hybrid Metaheuristic Algorithm**, IEEE Transactions on Vehicular Technology, vol. 62, no. 1 (January 2013), pp. 39-49, 2013. ISSN: 0018-9545. DOI: [10.1109/TVT.2012.2215970](https://doi.org/10.1109/TVT.2012.2215970), WOS: 000318514000004. (ISI)
225. Popa D.C. – Gliga V.I. – Szabó L.: **Theoretical and Experimental Study of a Modular Tubular Transverse Flux Reluctance Machine**, Progress In Electromagnetics Research (PIER), vol. 139, pp. 41-55, 2013. E-ISSN: 1559-8985. DOI: [10.2528/PIER13030809](https://doi.org/10.2528/PIER13030809), WOS: 000319668200004. (ISI) URL: <http://www.jpier.org/pier/pier.php?paper=13030809>.
226. Harlișca C. – Szabó L. – Frosini L. – Albin A.: **Diagnosis of Rolling Bearings Faults in Electric Machines through Stray Magnetic Flux Monitoring**, Proceedings of the 8<sup>th</sup> International Symposium on Advanced Topics in Electrical Engineering (ATEE '2013), București, pe CD: ELMAD\_P10\_208.pdf, 2013. ISBN: 978-1-4673-5978-8. DOI: [10.1109/ATEE.2013.6563406](https://doi.org/10.1109/ATEE.2013.6563406), WOS: 000332928500060. (ISIProc)
227. Ruba M. – Viorel I.A. – Szabó L.: **Modular stator switched reluctance motor for fault tolerant drive systems**, IET Electric Power Applications, vol. 7, no. 3 (March 2013), pp. 159-169, 2013, ISSN: 1751-8660. DOI: [10.1049/iet-epa.2012.0140](https://doi.org/10.1049/iet-epa.2012.0140), WOS: 000321716100001. (ISI)
228. Dúbravka P. – Rafajdus P. – Makys P. – Hrabovcova V. – Szabó L.: **Analysis of Switched Reluctance Motor Behavior under Electrical Fault Conditions**, COMMUNICATIONS, Scientific Letters of the University of Žilina (Slovakia), vol2a, pp. 60-66, 2013. ISSN: 1335-4205. (SCOPUS)
229. Fodorean D. – Szabó L.: **Study of Permanent Magnet Synchronous Machine Topologies for Electric Scooter Application**, Advanced Engineering Forum, vol. 8-9 (Interdisciplinary Research in Engineering: Steps towards Breakthrough Innovation for Sustainable Development), pp. 397-404, 2013. ISSN: 2234-991X. DOI: [10.4028/www.scientific.net/AEF.8-9.397](https://doi.org/10.4028/www.scientific.net/AEF.8-9.397), WOS:000323184000045. (ISIProc)  
URL: <http://www.scientific.net/AEF.8-9.397.pdf>.
230. Popa D.C. – Gliga V.I. – Szabó L.: **Construction of a New Type of Modular Tubular Machine**, Advanced Engineering Forum, vol. 8-9 (Interdisciplinary Research in Engineering: Steps towards Breakthrough Innovation for Sustainable Development), pp. 437-444, 2013. ISSN: 2234-991X. DOI: [10.4028/www.scientific.net/AEF.8-9.437](https://doi.org/10.4028/www.scientific.net/AEF.8-9.437), WOS: 000323184000049. (ISIProc)  
URL: <http://www.scientific.net/AEF.8-9.437.pdf>.
231. Oprea C.A. – Martiş C.S. – Szabó L.: **Multi-Phase Linear Generator for Electric Vehicle Applications**, Advanced Engineering Forum, vol. 8-9 (Interdisciplinary Research in Engineering: Steps towards Breakthrough Innovation for Sustainable Development), pp. 461-468, 2013. ISSN: 2234-991X. DOI: [10.4028/www.scientific.net/AEF.8-9.461](https://doi.org/10.4028/www.scientific.net/AEF.8-9.461), WOS: 000323184000052. (ISIProc)  
URL: <http://www.scientific.net/AEF.8-9.461.pdf>.
232. Rusu T. – Bîrte O. – Szabó L. – Martiş C.S.: **Script Controlled Modeling of Low Noise Permanent Magnet Synchronous Machines by using JMAG Designer**, Journal of Computer Science and Control Systems, vol. 6, no. 1, pp. 91-94, 2013. ISSN: 1844-6043.
233. Hrabovcová V. – Rafajdus P. – Liptak M. – Szabó L.: **Performance of Converters Suitable for Switched Reluctance Generator (SRG) Operation**, Journal of Electrical Engineering, vol. 64, no. 3, pp. 201-211, 2013. ISSN: 1335-3632. DOI: [10.2478/jee-2013-0030](https://doi.org/10.2478/jee-2013-0030), WOS: 000324609100001. (ISI)
234. Harlișca C. – Szabó L. – Frosini L. – Albin A.: **Bearing Faults Detection in Induction Machines Based on Statistical Processing of the Stray Fluxes Measurements**, Proceedings of the 9<sup>th</sup> IEEE International Symposium on Diagnostics for Electric Machines, Power Electronics and Drives (SDEMPED '2013), Valencia (Spain), pp. 470-475, 2013. ISBN: 978-1-4799-0023-7. DOI: [10.1109/DEMPED.2013.6645742](https://doi.org/10.1109/DEMPED.2013.6645742), WOS: 000396580800054. (ISIProc, SCOPUS, IEEE Xplore)
235. Dúbravka P. – Rafajdus, P. – Makys, P. – Hrabovcova, V. – Musak M – Szabó L.: **Analysis and Investigation of SRM as Traction Drive Used in Electric Car**, Proceedings of the 10<sup>th</sup> Jubilee International Symposium on Advanced Electromechanical Motion Systems – ELECTROMOTION 2013 in Electromotion, vol. 20, no. 1-4 (January-December 2013), pp. 84-89, 2013. ISSN: 1223-057X.

236. Szabó L. – Terec R. – Ruba M. – Rafajdus P.: **Detecting and Tolerating Faults in Switched Reluctance Motors**, Universal Journal of Electrical and Electronic Engineering, vol. 1, no. 2, pp. 16-25, 2013. ISSN: 2332-3280 (print), 2332-3299 (online). URL: <http://www.hrpub.org/download/201308/ujeee.2013.010202.pdf>.
237. Popa D.C. – Micu D.D. – Miron O.R. – Szabó L.: **Optimized Design of a Novel Modular Tubular Transverse Flux Reluctance Machine**, IEEE Transactions on Magnetics, vol. 49, no. 11 (November 2013), pp. 5533-5542, 2013. ISSN: 0018-9464. DOI: [10.1109/TMAG.2013.2269537](https://doi.org/10.1109/TMAG.2013.2269537), WOS:000326246500019. (ISI)
238. Bîrte O. – Rusu T. – Szabó L. – Marțiș C.S.: **Script Controlled Model of a Synchronous Reluctance Machine for Rapid Design Optimization**, Journal of Computer Science and Control Systems, vol. 6, no. 2, pp. 5-8, 2013. ISSN: 1844-6043.
239. Harlișca C. – Bouchareb I. – Frosini L. – Szabó L.: **Induction Machine Bearing Faults Detection Based on Artificial Neural Network**, Proceedings of the 14th IEEE International Symposium on Computational Intelligence and Informatics (CINTI '2013), Budapest (Ungaria), pp. 297-302, 2013. ISBN: 978-1-4799-0197-5. DOI: [10.1109/CINTI.2013.6705210](https://doi.org/10.1109/CINTI.2013.6705210), WOS: 000345626300050. (ISIProc)
240. Szabó L. – Ruba M. – Szász Cs. – Chindriș V. – Husi G.: **Fault Tolerant Bio-Inspired System Controlled Modular Switched Reluctance Machine**, Automatika – Journal for Control, Measurement, Electronics, Computing and Communications, vol. 55, no. 1, pp. 53-63, 2014. ISSN: 0005-1144. DOI: [10.7305/automatika.2014.01.105](https://doi.org/10.7305/automatika.2014.01.105), WOS: 000333500400006. (ISI)
241. Szabó L. – Ruba M. – Fodorean D. – Rafajdus P. – Dúbravka P.: **Direct Instantaneous Torque Controlled Modular Switched Reluctance Motor Designed for Automotive Applications**, Proceedings of the 10<sup>th</sup> International Conference ELEKTRO 2014, Rajecké Teplice (Slovakia), pp. 239-244, 2014. ISBN: 978-1-4799-3720-2. DOI: [10.1109/ELEKTRO.2014.6848894](https://doi.org/10.1109/ELEKTRO.2014.6848894), WOS:000361020800048. (ISIProc)
242. Diko M. – Rafajdus P. – Makyš P. – Dúbravka P. – Szabó L. – Ruba M.: **A Novel Design Conception of Switched Reluctance Motor for Electrical Vehicles**, Proceedings of the 10<sup>th</sup> International Conference ELEKTRO 2014, Rajecké Teplice (Slovakia), pp. 273-278, 2014. ISBN: 978-1-4799-3720-2. DOI: [10.1109/ELEKTRO.2014.6848901](https://doi.org/10.1109/ELEKTRO.2014.6848901), WOS: 000361020800048. (ISIProc)
243. Rafajdus P. – Peniak A. – Dubravka P. – Makyš P. – Szabó L.: **Optimization of Switched Reluctance Motor Design Procedure for Electrical Vehicles**, Proceedings of the 14<sup>th</sup> International Conference on Optimization of Electrical and Electronic Equipment (OPTIM '2014), Brașov, pp. 397-404, 2014. ISBN: 978-1-4799-5183-3. DOI: [10.1109/OPTIM.2014.6851033](https://doi.org/10.1109/OPTIM.2014.6851033), WOS: 000343551300057. (ISIProc)
244. Rafajdus P. – Dúbravka P. – Peniak A. – Saitz J. – Szabó L.: **Design Procedure of Switched Reluctance Motor Used for Electric Car Drive**, Proceedings of the 22<sup>nd</sup> International Symposium on Power Electronics, Electrical Drives, Automation and Motion (SPEEDAM '2014), Ischia (Italia), pp. 112-117, 2014. ISBN: 978-1-4799-4749-2. DOI: [10.1109/SPEEDAM.2014.6871986](https://doi.org/10.1109/SPEEDAM.2014.6871986), WOS: 000346502700020. (ISIProc)
245. Dúbravka P. – Rafajdus P. – Makyš P. – Peniak A. – Hrabovcová V. – Szabó L. – Ruba M.: **Design of Fault Tolerant Control Technique for SRM Drive**, Proceedings of the 16<sup>th</sup> European Conference on Power Electronics and Applications (EPE '14-ECCE Europe), Lappeenranta (Finlanda), pe CD: 0388-epe2014-full-20453300.pdf. ISBN: 978-1-4799-3014-2 și 978-9-0758-1520-7. DOI: [10.1109/EPE.2014.6910944](https://doi.org/10.1109/EPE.2014.6910944), WOS:000361460003066. (ISIProc, SCOPUS, IEEE Xplore)
246. Fodorean D. – Popa D.C. – Minciunescu P. – Irimia C. – Szabó L.: **Study of a High-Speed Motorization for Electric Vehicle based on PMSM, IM and VRSM**, Proceedings of the 21<sup>st</sup> International Conference on Electrical Machines (ICEM '2014), Berlin (Germania), pp. 2577-2582, 2014. ISBN: 978-1-4799-4775-1. DOI: [10.1109/ICELMACH.2014.6960550](https://doi.org/10.1109/ICELMACH.2014.6960550), WOS: 000358567800377. (ISIProc, SCOPUS, IEEE Xplore)
247. Ruba M. – Szabó L.: **Study of Light Electric Vehicles Propulsion Solutions by Means of Finite Element Method Based Co-Simulations**, Proceedings of the 15<sup>th</sup> IEEE International Symposium on Computational Intelligence and Informatics (CINTI '2014), Budapest (Ungaria), pp. 415-420, 2014. ISBN: 978-1-4799-5338-7. DOI: [10.1109/CINTI.2014.7028710](https://doi.org/10.1109/CINTI.2014.7028710), WOS: 000380462600056. (ISIProc, SCOPUS, IEEE Xplore)
248. Răcășan A. – Munteanu C. – Păcurar C. – Țopa V. – Hebedean C. – Szabó L.: **Numerical Modeling of Planar Electromagnetic Devices at High Frequency Using 3D CAD Programs**, Acta Electrotehnica, vol. 55, no. 3-4, pp. 158-163, 2014. ISSN: 1841-3323.

249. Frosini L. – Harlișca C. – Szabó L.: **Induction machine bearing faults detection by means of statistical processing of the stray flux measurement**, IEEE Transactions on Industrial Electronics, vol. 62, no. 3, pp. 1846-1854, 2015. ISSN: 0278-0046. DOI: [10.1109/TIE.2014.2361115](https://doi.org/10.1109/TIE.2014.2361115), WOS: 000349676900052. (ISI)
250. Szabó L. – Ruba M. – Fodorean D. – Rafajdus P. – Dúbravka P.: **Torque Smoothing of a Fault Tolerant Segmental Stator Switched Reluctance Motor**, COMMUNICATIONS, Scientific Letters of the University of Žilina (Slovakia), vol. 1a, pp. 95-101, 2015. ISSN: 1335-4205. (SCOPUS)
251. Bîrte O. – Szabó L. – Van der Auweraer H. – Faria C. – Popp Á. – Martiș C.: **Study of Torque Ripple and Noise for Different Rotor Topologies of a Synchronous Reluctance Machine**, Proceedings of the 9th International Symposium on Advanced Topics in Electrical Engineering (ATEE '2015), București, pp. 933-938, 2015. ISBN: 978-1-4673-8093-5. DOI: [10.1109/ATEE.2015.7133936](https://doi.org/10.1109/ATEE.2015.7133936), WOS: 000368159800173. (ISIProc, SCOPUS, IEEE Xplore)
252. Rusu T. – Pop A.-C. – Szabó L. – Martiș, C.: **Study of Winding Arrangement and Material Quality Effects on the Core Losses in High Speed Switched Reluctance Machines**, Proceedings of the 13<sup>th</sup> International Conference on Engineering of Modern Electric Systems (EMES '2015), Oradea, pp. 243-246, 2015. ISBN: 978-1-4799-7648-5. DOI: [10.1109/EMES.2015.7158447](https://doi.org/10.1109/EMES.2015.7158447), WOS: 000363815100060. (ISIProc, SCOPUS, IEEE Xplore)
253. Ruba M. – Jurca F. – Szabó L.: **Comparative Study of Switched and Synchronous Reluctance Machines for Electric Propulsion**, Electromotion, vol. 22, no. 1-2 (January – June 2015), pp. 15-18, 2015. ISSN: 1223-057X.
254. Diko M. – Rafajdus P. – Makyš P. – Dúbravka P. – Szabó L. – Ruba M.: **A Novel Concept of Short-Flux Path Switched Reluctance Motor for Electrical Vehicles**, Advances in Electrical and Electronic Engineering (Slovakia), vol. 13, no. 3 (September 2015), pp. 206-211, 2015. ISSN: 1336-1376. DOI: [10.15598/aeee.v13i3.1309](https://doi.org/10.15598/aeee.v13i3.1309), WOS: 000409458400002. (ISI)
255. Ruba M. – Martiș C.S. – Jurca F. – Szabó L.: **Analysis of a Switched Reluctance Machine for EV Application with Torque Smoothing Strategy**, Proceedings of the 2015 International Conference on Electrical Drives and Power Electronics (EDPE '2015), Tatranská Lomnica (Slovakia), pp. 266-271, 2015. ISBN: 978-1-4673-9661-5. DOI: [10.1109/EDPE.2015.7325304](https://doi.org/10.1109/EDPE.2015.7325304), WOS: 000380458300045. (ISIProc, SCOPUS, IEEE Xplore)
256. Ruba M. – Jurca F. – Szabó L.: **Efficiency Improvement of Switched Reluctance Motors by Means of Using Higher Quality Laminations**, Acta Electrotehnica, vol. 56, no. 4, pp. 148-151, 2015. ISSN: 1841-3323.
257. Răcășan A. – Păcurar C. – Munteanu C. – Țopa V. – Constantinescu C. – Szabó L. – Dodea M.: **Electromagnetic Field Numerical Modeling Using BEM2D**, Acta Electrotehnica, vol. 56, no. 5, pp. 197-202, 2015. ISSN: 1841-3323.
258. Martiș R. – Sיעoban R. – Martiș C. – Szabó L.: **Common and Normal Mode Currents in PMSM PWM Drives**, Proceedings of the 2016 International Symposium on Power Electronics, Electrical Drives, Automation and Motion (SPEEDAM '2016), Capri (Italia), pp. 500-504, 2016. ISBN: 978-1-5090-4181-7. DOI: [10.1109/SPEEDAM.2016.7525877](https://doi.org/10.1109/SPEEDAM.2016.7525877), WOS: 000387110600081. (ISIProc, SCOPUS, IEEE Xplore)
259. Dúbravka P. – Rafajdus P. – Makyš P. – Szabó L.: **Control Techniques for Torque Ripple Minimization in Switched Reluctance Drives under Faults**, Proceedings of the 2016 International Symposium on Power Electronics, Electrical Drives, Automation and Motion (SPEEDAM '2016), Capri (Italia), pp. 625-632, 2016. ISBN: 978-1-5090-4181-7. DOI: [10.1109/SPEEDAM.2016.7525875](https://doi.org/10.1109/SPEEDAM.2016.7525875), WOS: 000387110600102. (ISIProc, SCOPUS, IEEE Xplore)
260. Szabó L. – Fodorean D. – Vasilache A.: **Bearing Fault Detection of Electrical Machines Used in Automotive Applications**, Proceedings of the 22<sup>nd</sup> International Conference on Electrical Machines (ICEM '2016), Lausanne (Elveția), pp. 2186-2192, 2016. ISBN: 978-1-5090-2537-4. DOI: [10.1109/ICELMACH.2016.7732825](https://doi.org/10.1109/ICELMACH.2016.7732825), WOS: 000390884900320. (ISIProc, SCOPUS, IEEE Xplore)
261. Martiș R. – Sיעoban R. – Martiș C. – Szabó L.: **Vibro-Acoustic Behavior vs. Conductive Interferences in PMSM drives**, Proceedings of the 2016 International Conference and Exposition on Electrical and Power Engineering (EPE '2016), Iași (Romania), 2016. ISBN: 978-1-5090-6129-7. DOI: [10.1109/ICEPE.2016.7781356](https://doi.org/10.1109/ICEPE.2016.7781356), WOS: 000390706300066. (ISIProc, SCOPUS, IEEE Xplore)
262. Rusu T. – Pop A.-C. – Szabó L.: **Noise Harshness and Vibration Characterization of Switched Reluctance Motors**, Journal of Computer Science and Control Systems, vol. 9, no. 2, 2016, pp. 34-40. ISSN: 1844-6043.
263. Szabó L.: **Permanent Magnet Boosted Modular Switched Reluctance Motor**, Journal of Computer Science and Control Systems, vol. 9, no. 2, 2016, pp. 48-52. ISSN: 1844-6043.



264. Dubravka P. – Rafajdus P. – Makys P. – Szabó L.: **Control of Switched Reluctance Motor by Current Profiling under Normal and Open Phase Operating Condition**, IET Electric Power Applications, vol. 11, no. 4, pp. 548-556, 2017. ISSN: 1751-8660. DOI: [10.1049/iet-epa.2016.054310.1049/iet-epa.2016.0543](https://doi.org/10.1049/iet-epa.2016.054310.1049/iet-epa.2016.0543), WOS:000399388300008 (ISI, SCOPUS).
265. Szabó L.: **Using Maximum Correlated Kurtosis Deconvolution Method in the Bearing Fault Detection of Wind Turbine Generators**, Proceedings of the 14<sup>th</sup> International Conference on Engineering of Modern Electric Systems (ICEMES '2017), Oradea, pp. 184-187, 2017. ISBN 978-1-5090-6072-6. DOI: [10.1109/EMES.2017.7980410](https://doi.org/10.1109/EMES.2017.7980410), WOS:000427085200043. (ISIProc, SCOPUS, IEEE Xplore)
266. Szabó L.: **The History of Using Solar Energy**, Proceedings of the 7<sup>th</sup> International Conference on Modern Power Systems (MPS '2017), Cluj-Napoca, paper #125, 2017. ISBN: 978-1-5090-6564-6. DOI: [10.1109/MPS.2017.7974451](https://doi.org/10.1109/MPS.2017.7974451), WOS: 000428462600079. (ISIProc, SCOPUS, IEEE Xplore)
267. Bingöl F. – Avia Aranda F. – Garcia Barquero C. – Arribas L. – Santa Barbara L. – Cruz Cruz J.I. – De la Cruz Soto J. Draper M. Elmacı S.C. – Fernandez A. – Izquierdo Monge O. – Karlsson T. – Duzdevich J.P. – Soria Lascorz E. – Szabó L. – Usera, G. – Zappa, A.: **ERANET-LAC: Small Wind Turbines Optimization and Market Promotion Project** (în limba turcă), Proceedings of the Izmir Wind Symposium 2017, Izmir (Turcia), pp. 21-25.
268. Cepoi R.D. – Jaşcău F.F. – Szabó L.: **Current Trends in Energy Efficient Electrical Machines**, Journal of Electrical and Electronics Engineering, vol. 10, no. 2 (October 2017), pp. 13-18. ISSN: 1844-6035. (SCOPUS)
269. Szabó L.: **Modular switched reluctance machines to be used in automotive applications**, Proceedings of the Workshop on SRM drives an alternative for E-traction, Vilanova i la Geltrú (Spain), pp. 19-29, 2018. URL: <https://upcommons.upc.edu/handle/2117/116152>.
270. Andrada Gascón, P. – Dougan, M.J. – Márquez-Fernández, F.J. – Egea, A. – Szabó L.: **Are SRM drives a real alternative for EV powertrain? Conclusions of the Workshop**, Proceedings of the Workshop on SRM drives an alternative for E-traction, Vilanova i la Geltrú (Spain), pp. 55-58, 2018. URL: <https://upcommons.upc.edu/handle/2117/116145>.
271. Szabó L.: **On the Use of Rotary-Linear Generators in Floating Hybrid Wind and Wave Energy Conversion Systems**, Proceedings of the 2018 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR '2018), THETA 21, Cluj, paper #105, 2018. ISBN: 978-1-5386-2203-2. DOI: [10.1109/AQTR.2018.8402775](https://doi.org/10.1109/AQTR.2018.8402775), WOS: 000450065900071. (ISIProc, SCOPUS, IEEE Xplore)
272. Szabó L.: **Novel Variable Reluctance Generators Used in Small Wind Turbines. The Modular Approach**, Proceedings of the 19<sup>th</sup> International Carpathian Control Conference (ICCC '2018), Szilvásvárad (Ungaria), paper #166, 2018. ISBN 978-1-5386-4762-2. DOI: [10.1109/CarpathianCC.2018.8399699](https://doi.org/10.1109/CarpathianCC.2018.8399699), WOS: 000439260500110. (ISIProc, SCOPUS, IEEE Xplore)
273. Martiş R. – Pop Pîgleşan F. – Martiş C. – Szabó L. – Ruba M.: **Design and Optimization Platform for Synchronous Motors**, Proceedings of the 2018 International Symposium on Power Electronics, Electrical Drives, Automation and Motion (SPEEDAM '2018), Amalfi (Italia), pp. 314-318, 2018. ISBN: 978-1-5386-4940-4. DOI: [10.1109/SPEEDAM.2018.8445210](https://doi.org/10.1109/SPEEDAM.2018.8445210), WOS: 000445031300052. (ISIProc, SCOPUS, IEEE Xplore)
274. Szabó L.: **Advancements in Electrical Machines Design Brought by the Modular Construction**, Proceedings of 10<sup>th</sup> International Conference on Electrical Power Drive Systems (ICEPDS '2018), Novochoerkassk (Rusia), pp. 35-41, 2018. ISBN: 978-1-5386-4713-4. DOI: [10.1109/ICEPDS.2018.8571897](https://doi.org/10.1109/ICEPDS.2018.8571897), WOS: 000457702000063. (ISIProc, SCOPUS, IEEE Xplore)
275. Szabó L.: **A Survey on the Efficiency Improve of Electrical Machines**, Proceedings of 26<sup>th</sup> International Workshop on Electric Drives: Improvement in Efficiency of Electric Drives (IWED '2019), Moskow (Rusia), paper #35, 2019. ISBN: 978-1-5386-9453-4. DOI: [10.1109/IWED.2019.8664220](https://doi.org/10.1109/IWED.2019.8664220). (ISIProc, SCOPUS, IEEE Xplore)
276. Szabó L.: **A Survey on Modular Variable Reluctance Generators for Small Wind Turbines**, IEEE Transactions on Industry Applications, vol. 55, no. 3 (May/June 2019), pp. 2548-2557, 2019, ISSN: 0093-9994. DOI: [10.1109/TIA.2019.2891730](https://doi.org/10.1109/TIA.2019.2891730), WOS: 000466033700037. (ISI, SCOPUS, IEEE Xplore)
277. Máthé Zs. – Nicorici A.-M. – Szabó L.: **Electrical Machines Used in Electric Power Steering Applications**, Proceedings of the 8<sup>th</sup> International Conference on Modern Power Systems (MPS '2019), Cluj-Napoca, paper #192, 2019. ISBN: 978-1-7281-0750-9. DOI: [10.1109/MPS.2019.8759736](https://doi.org/10.1109/MPS.2019.8759736). (IEEE Xplore, SCOPUS)
278. Nicorici A.-M. – Szabó L. – Martiş C.: **Design and Analysis of a Permanent Magnet Synchronous Machine used in Automotive Applications**, Proceedings of the 19<sup>th</sup> International

Conference on Environment and Electrical Engineering (EEEIC '2019), Genoa (Italia), ISBN: 978-1-7281-0653-3. DOI: [10.1109/EEEIC.2019.8783826](https://doi.org/10.1109/EEEIC.2019.8783826). (IEEE Xplore, SCOPUS)

279. Szabó L.: **A Survey on Rotary-Linear Motors Used in Emerging Applications**, Proceedings of 45<sup>th</sup> Annual Conference of the IEEE Industrial Electronics Society (IECON '2019), Lisabona (Portugalia), pp. 3105-3110, 2019. ISBN: 978-1-7281-4878-6.