Instituția de învățământ superior: Universitatea Tehnică din Cluj-Napoca

Facultatea de Inginerie Electrică

Domeniul de licență: Inginerie Electrică

Programul de studii de licență: Sisteme electrice – Cluj Napoca engleză

Perioada evaluării: .....

TABEL PRIVIND INDEPLINIREA INDICATORULUI

Activitatea științifică în domeniul disciplinelor

„Cadrele didactice titulare* au pregătirea inițială, sunt doctori / doctoranzi și cercetează în domeniul în care se includ disciplinele din postul ocupat.”

Nr. crt.	Gradul didactic, numele și prenumele titularului vârsta / vechimea în învățământul superior	Disciplinele din cadrul programului de studii incluse în postul didactic și tipul activității desfășurate (curs, seminar, lucrări, proiect)	**Competența cadrului didactic titular în disciplinele din postul didactic**			Constatări privind îndeplinirea indicatorului conform Anexei 4.1
			Universitatea/ facultatea/ specializarea absolvită	Specializarea la masterat/ doctorat	Numărul de cărți, numărul de lucrări științifice, numărul de brevete în domeniul disciplinelor din postul didactic (conform Anexelor 4.1.)	
0	***1***	***2***	***3***	***4***	***5***	***6***
1.	Prof.dr.ing. Loránd SZABÓ 64 / 35	Mașini electrice II (curs)	Institutul Politehnic Cluj Facultatea de Electrotehnică Acționări electrice	Doctorat în Mașini, aparate și acționări electrice	1 articol în reviste de specialitate cotate ISI (C1), 2 articole în reviste de specialitate cotate ISI (C31, C44), 3 articole la conferințe indexate în BDI (C3, C19, C25), etc.	Îndeplinit
		Mașini electrice speciale (curs)			1 teză (A1), 1 capitol de carte (B1), 4 articole în reviste de specialitate cotate ISI (C5, C12, C21, C29), 4 articole la conferințe indexate în BDI (C28, C33, C36, C40, etc.	Îndeplinit
2.		Proiectarea asistată de calculator a sistemelor electromecanice (curs și seminar)			3 articole în reviste de specialitate cotate ISI (C29, C31, C35), 2 articole la conferințe indexate în BDI (C18, C39), etc.	Îndeplinit

* Din statul de funcții cumulativ al tuturor disciplinelor și tuturor activităților didactice desfășurate în cadrul programului de studii evaluat.

Rector ***Persoana de contact***

Prof.dr.ing Vasile ȚOPA

A N E X A 4 . 1

Nume Prenume: **Szabó Loránd**

Gradul didactic: profesor

Instituția unde este titular: Universitatea Tehnică din Cluj-Napoca

Facultatea: Inginerie Electrică

Departamentul: Mașini și Acționări Electrice

L I S T A
lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

Proiectarea cu ajutorul calculatorului numeric a mașinii sincrone cu magnet permanent și reluctanță variabilă
conducător științific: Prof.dr.ing. Ioan-Adrian Viorel
Universitatea Tehnică din Cluj-Napoca
Susținere publică: 5 decembrie 1995.

B. Cărți si capitole în cărți publicate în ultimii 10 ani

1. Szabó L.: **Variable Reluctance Motors for Automotive Applications. The Modular Construction Approach**, în **SRM Drives for Electric Traction** (edited by Andrada, P.), pp. 57 86. Iniciativa Digital Politècnica. Oficina de Publicacions Acadèmiques Digitals de la UPC, Barcelona (Spania), 2020. ISBN: 978-84-9880-817-9. URL: http://hdl.handle.net/2117/187821.

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

1. Frosini L. – Harlişca 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, WOS: 000349676900052. (ISI)
2. 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 (Slovacia), vol. 1a, pp. 95-101, 2015. ISSN: 1335-4205. (SCOPUS)
3. Bîrte O. – Szabó L. – Van der Auweraer H. – Faria C. – Popp Á. – Marţiş 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), Bucureşti, pp. 933-938, 2015. ISBN: 978-1-4673-8093-5.
DOI: 10.1109/ATEE.2015.7133936, WOS: 000368159800173. (ISIProc, SCOPUS, IEEE Xplore)

4. Rusu T. – Pop A.-C. – Szabó L. – Marţiş, C.: **Study of Winding Arrangement and Material Quality Effects on the Core Losses in High Speed Switched Reluctance Machines**, Proceedings of the 13th 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, WOS: 000363815100060. (ISIProc, SCOPUS, IEEE Xplore)
5. 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 (Slovacia), vol. 13, no. 3 (September 2015), pp. 206-211, 2015. ISSN: 1336-1376. DOI: 10.15598/aeee.v13i3.1309, WOS: 000409458400002. (ISI)
6. Ruba M. – Marţiş C.S. – Jurca F. – Szabó L.: **Analysis of a Switched Reluctance Machine for EV Application with Torque Smoothening Strategy**, Proceedings of the 2015 International Conference on Electrical Drives and Power Electronics (EDPE '2015), Tatranská Lomnica (Slovacia), pp. 266-271, 2015. ISBN: 978-1-4673-9661-5. DOI: 10.1109/EDPE.2015.7325304, WOS: 000380458300045. (ISIProc, SCOPUS, IEEE Xplore)
7. Marţiş R. – Siecoban R. – Marţiş 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, WOS: 000387110600081. (ISIProc, SCOPUS, IEEE Xplore)
8. Dubravka P. – Rafajdus P. – Makys 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, WOS: 000387110600102. (ISIProc, SCOPUS, IEEE Xplore)
9. Szabó L. – Fodorean D. – Vasilache A.: **Bearing Fault Detection of Electrical Machines Used in Automotive Applications**, Proceedings of the 22nd International Conference on Electrical Machines (ICEM '2016), Lausanne (Elveţia), pp. 2186-2192, 2016. ISBN: 978-1-5090-2537-4. DOI: 10.1109/ICELMACH.2016.7732825, WOS: 000390884900320. (ISIProc, SCOPUS, IEEE Xplore)
10. Marţiş R. – Siecoban R. – Marţiş 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, WOS: 000390706300066. (ISIProc, SCOPUS, IEEE Xplore)
11. 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.
12. 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.2016.0543, WOS:000399388300008 (ISI, SCOPUS).

13. Szabó L.: **Using Maximum Correlated Kurtosis Deconvolution Method in the Bearing Fault Detection of Wind Turbine Generators**, Proceedings of the 14th 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, WOS:000427085200043. (ISIProc, SCOPUS, IEEE Xplore)
14. Szabó L.: **The History of Using Solar Energy**, Proceedings of the 7th 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, WOS: 000428462600079. (ISIProc, SCOPUS, IEEE Xplore)
15. 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)
16. 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, WOS: 000450065900071. (ISIProc, SCOPUS, IEEE Xplore)
17. Szabó L.: **Novel Variable Reluctance Generators Used in Small Wind Turbines. The Modular Approach**, Proceedings of the 19th International Carpathian Control Conference (ICCC '2018), Szilvásvárad (Ungaria), paper #166, 2018. ISBN 978-1-5386-4762-2. DOI: 10.1109/CarpathianCC.2018.8399699, WOS: 000439260500110. (ISIProc, SCOPUS, IEEE Xplore)
18. Marţiş R. – Pop Pîgleşan F. – Marţiş 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, WOS: 000445031300052. (ISIProc, SCOPUS, IEEE Xplore)
19. Szabó L.: **Advancements in Electrical Machines Design Brought by the Modular Construction**, Proceedings of 10th International Conference on Electrical Power Drive Systems (ICEPDS '2018), Novocherkassk (Rusia), pp. 35-41, 2018. ISBN: 978-1-5386-4713-4. DOI: 10.1109/ICEPDS.2018.8571897, WOS: 000457702000063. (ISIProc, SCOPUS, IEEE Xplore)
20. Szabó L.: **A Survey on the Efficiency Improve of Electrical Machines**, Proceedings of 26th 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, WOS:000469759600001. (ISIProc, SCOPUS, IEEE Xplore)
21. 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, WOS: 000466033700037. (ISI, SCOPUS, IEEE Xplore)
22. Máthé Zs. – Nicorici A.-M. – Szabó L.: **Electrical Machines Used in Electric Power Steering Applications**, Proceedings of the 8th 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, WOS: 000612401900084. (ISIProc, SCOPUS, IEEE Xplore)

23. Nicorici A.-M. – Szabó L. – Marţiş C.: **Design and Analysis of a Permanent Magnet Synchronous Machine used in Automotive Applications**, Proceedings of the 19th International Conference on Environment and Electrical Engineering (EEEIC '2019), Genoa (Italia), ISBN: 978-1-7281-0653-3. DOI: 10.1109/EEEIC.2019.8783826, WOS: 000502821300280. (ISIProc, IEEE Xplore, SCOPUS)
24. Szabó L.: **A Survey on Rotary-Linear Motors Used in Emerging Applications**, Proceedings of 45th Annual Conference of the IEEE Industrial Electronics Society (IECON '2019), Lisabona (Portugalia), pp. 3105-3110, 2019. ISBN: 978-1-7281-4878-6. DOI: 10.1109/IECON.2019.8927121, WOS: 000522050603045. (ISIProc, IEEE Xplore, SCOPUS)
25. Uberti F. – Frosini L. – Szabó L.: **An Optimization Procedure for a Synchronous Reluctance Machine with Fluid Shaped Flux Barriers**, Proceedings of the 24th International Conference on Electrical Machines (ICEM '2020), online, pp. 389-395, 2020. ISBN: 978-1-7281-9944-3. DOI: 10.1109/ICEM49940.2020.9270778, WOS: 000635705300058. (ISIProc, IEEE Xplore, SCOPUS)
26. Nicorici A.-M. – Ruba M. – Marțiș C.S. – Szabó L. – Máthé Zs.: **Comparative Analysis of Permanent Magnet Synchronous Machines Designed for Electric Power Steering Applications**, Proceedings of 11th International Conference on Electrical Power Drive Systems (ICEPDS '2020), Saint-Petersburg (Rusia)/online, paper#56, 2020. ISBN: 978-1-7281-6538-7. DOI: 10.1109/ICEPDS47235.2020.9249074, WOS: 000680657400001. (ISIProc, IEEE Xplore, SCOPUS)
27. Szabó L. – Szabó G.S. – Szabó R.: **Usage of Graphene in Power Systems. A Survey**, Proceedings of 11th International Conference on Electrical Power Drive Systems (ICEPDS '2020), Saint-Petersburg (Rusia)/online, paper#70, 2020. ISBN: 978-1-7281-6538-7. DOI: 10.1109/ICEPDS47235.2020.9249296, WOS: 000680657400028. (ISIProc, IEEE Xplore, SCOPUS)
28. Văscan I. – Marțiș, C.S. – Szabó L.: **Comparative Analysis of Permanent Magnet Synchronous Machines Used in Automotive Compressors**, Proceedings of the XVIII International Scientific Technical Conference "Alternating Current Electric Drives" (ACED '2021), Ekaterinburg (Russia)/online, paper #12, 2021. ISBN: 978-1-6654-1247-6. DOI: 10.1109/ACED50605.2021.9462291. (IEEE Xplore, SCOPUS)
29. Uberti F. – Frosini L. – Szabó L.: **A New Design Procedure for Rotor Laminations of Synchronous Reluctance Machines with Fluid Shaped Barriers**, Electronics, vol. 11, paper #134, 2022. EISSN 2079-9292. DOI: 10.3390/electronics11010134, WOS: 000759308200001. (ISI, SCOPUS)
30. Szabó L.: **Additive Manufacturing of Cooling Systems Used in Power Electronics. A Brief Survey**, Proceedings of 29th International Workshop on Electric Drives: Improvement in Efficiency of Electric Drives (IWED '2022), Moskow (Rusia), paper #32, 2022. ISBN: 978-1-6654-6786-5/22. DOI: 10.1109/IWED54598.2022.9722580. (IEEE Xplore)
31. Szabó L. – Fodor D.: **The Key Role of 3D Printing Technologies in the Further Development of Electrical Machines**, Machines, vol. 10, no. 5, paper #330, 2022. ISSN: 2075-1702. DOI: 10.3390/machines10050330, WOS: 000801555800001. (ISI, SCOPUS)

32. Szabó L.: **Survey on Applying 3D Printing in Manufacturing the Cooling Systems of Electrical Machines**, Proceedings of the 2022 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR '2022), THETA 23, Cluj, paper #14, 2022. ISBN: 978-1-6654-7932-5/22. DOI: 10.1109/AQTR55203.2022.9801983, WOS: 000890261900057. (ISI Proc, IEEE Xplore, SCOPUS)
33. Văscan I. – Szabó L.: **Improvement Trends in the Development of Permanent Magnet Synchronous Machines for Automotive Applications**, Proceedings of the 23rd International Carpathian Control Conference (ICCC '2022), Sinaia, pp. 398-403, paper #14, 2022. ISBN: 978-1-6654-6637-0. DOI: 10.1109/ICCC54292.2022.9805861. (IEEE Xplore)
34. Szabó G.S. – Szabó R. – Szabó L.: **A Review of the Mitigating Methods against the Energy Conversion Decrease in Solar Panels**, Energies, vol. 15, no. 18, paper #6558, 2022. eISSN: 1996-1073. DOI: 10.3390/en15186558, WOS: 000856456500001. (ISI, SCOPUS)
35. Coteț F.-A. – Văscan I. – Szabó L.: **On the Usefulness of Employing ANSYS Motor-CAD Software in Designing Permanent Magnet Synchronous Machines**, Designs, vol. 7, no. 1, paper #7, 2023. eISSN: 2411-9660. DOI: 10.3390/designs7010007. (SCOPUS)
36. Szabó L. – Coteț F.-A.: **On the suitability of using ANSYS Motor-CAD software for teaching special electrical machines**, Proceedings of the 10th International Conference on Modern Power Systems (MPS '2023), Cluj-Napoca (Romania), paper #47, 2023. ISBN: 979-8-3503-2682-6/23. DOI: 10.1109/MPS58874.2023.10187496. (IEEE Xplore, SCOPUS)
37. Mátyás E. – Szabó L.: **Computation of Street Lighting in High-Risk Areas. Part I. Ramped Roads**, Proceedings of the 10th International Conference on Modern Power Systems (MPS '2023), Cluj-Napoca (Romania), paper #49, 2023. ISBN: 979-8-3503-2682-6/23. DOI: 10.1109/MPS58874.2023.10187461. (IEEE Xplore, SCOPUS)
38. Mátyás E. – Szabó L.: **Computation of Street Lighting in High-Risk Areas. Part II. Curved Roads, Intersections and Roundabouts**, Proceedings of the 10th International Conference on Modern Power Systems (MPS '2023), Cluj-Napoca (Romania), paper #152, 2023. ISBN: 979-8-3503-2682-6/23. DOI: 10.1109/MPS58874.2023.10187429. (IEEE Xplore, SCOPUS)
39. Olar A.V. – Szabó L.– Gros I.-C.: **The Design and Applications of Dashboards Used in Electrical and Power Systems**, Proceedings of the 10th International Conference on Modern Power Systems (MPS '2023), Cluj-Napoca (Romania), paper #84, 2023. ISBN: 979-8-3503-2682-6/23. DOI: 10.1109/MPS58874.2023.10187408. (IEEE Xplore, SCOPUS)
40. Chirca M. – Dranca M. – Breban Ș. – Szabó L.: **In-wheel Slotless Permanent Magnet Synchronous Motor for Light Electric Vehicle Propulsion**, Proceedings of the 10th International Conference on Modern Power Systems (MPS '2023), Cluj-Napoca (Romania), paper #91, 2023. ISBN: 979-8-3503-2682-6/23. DOI: 10.1109/MPS58874.2023.10187474. (IEEE Xplore, SCOPUS)
41. Jula P.A. – Mákszem B. – Gaidamac T. – Popa D.-C. – Szabó L.: **Tackling risks in the supply chain of rare earth-based permanent magnets used in electrical generators**, Proceedings of the 8th International Conference on Clean Electrical Power (ICCEP '2023), Terrasini (Italia), pp. 852-857, 2023. ISBN: 979-8-3503-4837-8/23. DOI: 10.1109/ICCEP57914.2023.10247488. (IEEE Xplore, SCOPUS)
42. Artudean D. – Aitonean N. – Pârcălab M. – Popa D.-C. – Szabó L.: **Strategic Resource Challenges in the Development of Smart Cities**, Proceedings of the 2024 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR '2024), THETA 24, Cluj, paper #18, 2024. ISBN: 979-8-3503-6192-6/24. DOI: 10.1109/AQTR61889.2024.10554230, WOS: 001253157800050. (ISI Proc, IEEE Xplore, SCOPUS)

43. Mátyás E. – Szabó L.: **Intelligent Illumination of Crosswalks for Increasing Pedestrian Safety**, Proceedings of the 2024 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR '2024), THETA 24, Cluj, paper #27, 2024. ISBN: 979-8-3503-6192-6/24. DOI: 10.1109/AQTR61889.2024.10554244, WOS: 001253157800054. (ISI Proc, IEEE Xplore, SCOPUS)
44. Popa D.-C. – Szabó L.: **Overcoming Catch-22 for rare earth metals in green transition: Solutions in electrical machine manufacturing**, Renewable and Sustainable Energy Reviews, vol. 207 (January 2025), paper #1149172024, 2025. ISSN: 1364-0321. DOI: 10.1016/j.rser.2024.114917. WOS: 001313852800001 (ISI, SCOPUS)

D. Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți (neindexate)

- Reviste

1. 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, WOS: 000319668200004. (ISI) URL: http://www.jpier.org/pier/pier.php?paper=13030809.
2. Rusu T. – Bîrte O. – Szabó L. – Marţiş 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.
3. 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 10th 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.
4. 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).
5. Bîrte O. – Rusu T. – Szabó L. – Marţiş 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.
6. Răcășan A. – Munteanu C. – Păcurar C. – Ţopa 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.
7. 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.
8. 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.
9. Răcășan A. – Păcurar C. – Munteanu C. – Ţopa 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.

10. 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.
11. Cepoi R.D. – Jaşcău F.F. – Szabó L.: **Economic Benefits of Energy-Efficient Electrical Machines. A Case Study**, Journal of Computer Science & Control Systems, vol. 13, no. 1 (May 2020), pp. 31-38. ISSN: 1844-6043.
12. Văscan I. – Szabó L.: **A Brief History of Electric Vehicles**, Journal of Computer Science and Control Systems, vol. 15, no. 1, 2022, pp. 19-26. ISSN: 1844-6043.

- Selecție cu maximum 20 lucrări în volume de conferințe

1. 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.
2. 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 (Spania), pp. 19-29, 2018. URL: https://upcommons.upc.edu/handle/2117/116152.
3. 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 (Spania), pp. 55-58, 2018. URL: https://upcommons.upc.edu/handle/2117/116145.

E. Brevete obținute în întreaga activitate

1. Ruba M. – Szabó L.: **Motor electric trifazat cu reluctanţă comutată tolerant la defecte**, patent no. 126255, Oficiul de Stat pentru Invenţii şi Mărci (OSIM), 2013.

Data: 2.9.2024

Semnătura: