

L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

“The theoretical and experimental study of claw pole alternators”

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

1. Oprea, C., Barz, Cr., *Tehnica reglării automate*, -îndrumător de laborator-,160 pg., Universitatea de Nord Baia Mare, 2000.
2. Oprea, C., Barz, Cr., *Elemente de inginerie electrica, reglare automata si automatizari*, 400pag, Risoprint, Cluj Napoca, 2011, ISBN 978-973-53-0549-9.
3. Oprea, C., Barz, Cr., *Automate programabile in actionari*, 200pag, Risoprint, Cluj Napoca, 2014, ISBN 978-973-53-1350-0.
4. Dan Calin Peter, Radu-Adrian Tirnovan, Cristian Barz, *Instalatii Electrice*, Ed. UTPRESS, Cluj-Napoca 2017, ISBN 978-606-737-262-5, pagini - 342
5. Barz, Cr., *Medii de proiectare integrată a instalațiilor electrice*, format electronic.
6. Barz, Cr., *Instrumentație virtuală*, format electronic.

C. Lucrări indexate ISI

1. O. Chiver, E. Micu si **Barz, Cr.**, *Stator winding leakage inductances determination using finite elements method*”, OPTIM 2008, Proceeding of the 11 th International Conference on Optimization of Electrical and Electronic Equipment, vol. III – Industrial Automation and Control, Edited by The Transilvania University of Brasov, Faculty of Electrical Engineering and Computer Science, 22-23 May 2008, Brașov, ISI Proceedings Web of Knowledge, IEEE Catalog Number 08EX1996, INSPEC Nr.10145895, ISBN 978-1-4244-1544-1, pg. 69-74 (ISI)
2. Chiver, O. , Neamt, L., **Barz, C.**, Costea, C., *Frequency domain numerical analysis of rotor cage induction motor*, Proceedings of the International Conference and Exposition on Electrical and Power Engineering, pp. 327-331, Iasi, EPE 2014 (ISI)
3. **Barz C**, Oprea C, Chiver O, Erdei Z, Neamt L, Horgos M and Pop Vadean A 2014 *The Advantages of Numerical Analysis for Claw Pole Alternator*, International Conference and Exposition on Electrical and Power Engineering EPE 2014, Iasi, Romania, October 16-18, pp 353-356
4. Neamt, L. , Chiver, O., **Barz, C.**, Costea, C., Erdei, Z., *Considerations about power system grounding for different soil structure*, Proceedings of the International Conference and Exposition on Electrical and Power Engineering, pp. 1034-1038, Iasi, EPE 2014 (ISI)
5. **Barz C.**, Oprea C., Erdei Z., Pop V. A., Petrovan F., *The control of an industrial process with PLC*, International Conference on Applied and Theoretical Electricity, pp. 1-4, Craiova, ICATE, DOI 10.1109/ICATE.2014.6972663, 2014 (ISI)
6. **Barz C.**, Latinovic T., Balan A., Pop-Vadean A., Pop P.P., *Using HMI Weintek in command of an industrial robot arm*, International Conference on Applied Sciences OCT 02-04, 2014 (ICAS2014),

- IOP Conf. Series: Materials Science and Engineering 85 (2015), pp 1-6, doi:10.1088/1757-899X/85/1/012003, ISSN: 1757-8981. (ISI)
7. Latinovic T., Deaconu S., Latinović M., Malešević N., **Barz C.**, *Develop virtual joint laboratory for education like distance engineering system for robotic applications*, International Conference on Applied Sciences OCT 02-04, 2014 (ICAS2014), IOP Conf. Series: Materials Science and Engineering 85 (2015) 012018, pp 1-11, doi:10.1088/1757-899X/85/1/012018, ISSN: 1757-8981. (ISI)
 8. Pop-Vadean A., Pop P.P., **Barz C.**, Chiver O., *Applications of energy harvesting for ultralow power technology*, International Conference on Applied Sciences OCT 02-04, 2014 (ICAS2014), IOP Conf. Series: Materials Science and Engineering 85 (2015), 012024, pp 1-9, doi: 10.1088/1757-899X/85/1/012024, ISSN: 1757-8981. (ISI)
 9. Pop P.P., Pop-Vadean A., **Barz C.**, Chiver O., *Considerations regarding the concept of the level of reality in the process of learning the transdisciplinary approach*, International Conference on Applied Sciences (ICAS2014), OCT 02-04, Hunedoara, 2014 IOP Conf. Series: Materials Science and Engineering 85 (2015), 012025, pp 1-5, doi: 10.1088/1757-899X/85/1/012025, ISSN: 1757-8981. (ISI)
 10. Horgos M., Neamt L., Erdei Z., Chiver O., **Barz C.**, Zetea O., *Determination of System for Wireless Power Transfer*, 9th International Symposium on Advanced Topics in Electrical Engineering (ATEE), MAY 07-09, 2015, Bucharest, pp 422-425, ISBN:978-1-4799-7514-3. (ISI)
 11. **Barz C.**, Deaconu S., Latinovic T., Berdie A., Pop-Vadean A., Horgos M., *PLCs used in smart home control*, International Conference on Applied Sciences, (ICAS2015), 3–5 June 2015, Wuhan, China, IOP Conf. Series: Materials Science and Engineering 106 (2016) 012036, pp 1-7, doi:10.1088/1757-899X/106/1/012036, ISSN: 1757-8981. (ISI)
 12. Pop P.P., Pop-Vadean A., **Barz C.**, Latinovic T., Chiver O., *Research on models of biological systems that can be integrated into mechatronic systems*, International Conference on Applied Sciences, (ICAS2015), 3–5 June 2015, Wuhan, China, IOP Conf. Series: Materials Science and Engineering 106 (2016) 012010, pp 1-5, doi: 10.1088/1757-899X/106/1/012010. (ISI)
 13. Pop-Vadean A., Pop P.P., **Barz C.**, Lung C., *RF waves - Measuring their energy (dBm) in three points into Baia Mare, Romania*, International Conference on Applied Sciences, (ICAS2015), 3–5 June 2015, Wuhan, China, IOP Conf. Series: Materials Science and Engineering 106 (2016) 012037, pp 1-8, doi: 10.1088/1757-899X/106/1/012037. (ISI)
 14. **Barz C.**, Ilia M, Ilut T, Pop-Vadean A., Pop P.P., Dragan F., *Weintek interfaces for controlling the position of a robotic*, International Conference on Innovative Ideas in Science (IIS2015)12–13 November 2015, Baia Mare, Romania, IOP Conf. Series: Materials Science and Engineering 144 (2016) 012018 pp 1-11 doi:10.1088/1757-899X/144/1/012018, ISSN: 1757-899X. (ISI)
 15. **Barz C.**, Todea, C., Latinovic, T., Preradovic, DM., Deaconu, S., Berdie, A., *Intelligent traffic control system using PLC*, International Conference on Innovative Ideas in Science (IIS2015)12–13 November 2015, Baia Mare, Romania, IOP Conf. Series: Materials Science and Engineering 144 (2016) 012017 pp 1-17 doi: 10.1088/1757-899X/144/1/012017, ISSN: 1757-8981 (ISI)
 16. Pop P.P., Pop-Vadean A., **Barz C.**, Latinovic T., *Transdisciplinary research in theatrical literature through technological integration and interfacing information*, International Conference on Innovative Ideas in Science (IIS2015)12–13 November 2015, Baia Mare, Romania, IOP Conf. Series: Materials Science and Engineering 144 (2016) 012008 pp:1-5, doi: 10.1088/1757-899X/144/1/012008, ISSN: 1757-8981 (ISI)
 17. Latinovic, T., Preradovic, DM., **Barz C.**, Latinović M., Pop P.P., Pop-Vadean A., *Big Data in industry*, International Conference on Innovative Ideas in Science (IIS2015)12–13 November 2015, Baia Mare, Romania, IOP Conf. Series: Materials Science and Engineering 144 (2016) 012006 pp:1-7 doi: 10.1088/1757-899X/144/1/012006, ISSN: 1757-8981 (ISI)

18. Chiver, O, Neamt, L; Pop, E; **Barz, C**; Pop-Vadean, A., *Identification of parameters of single-phase PM synchronous Motor*, Conference: IEEE 16th International Conference on Environment and Electrical Engineering (EEEIC), Florence, ITALY, JUN 07-10, 2016, ISBN:978-1-5090-2320-2 (ISI)
19. Neamt, L., Chiver, O., Zoltan, E., **Barz, C.**, *Considerations about Medium Voltage SF6 Switch Disconnecter Framework Design based on 3D Electrostatic FEA*, Conference: IEEE 16th International Conference on Environment and Electrical Engineering (EEEIC), Florence, ITALY, JUN 07-10, 2016, ISBN:978-1-5090-2320-2 (ISI)
20. **Barz, C.**, Chiver, O., Zoltan, E., Horgos, M., Preradovic, D, *Automation with MFD Titan for Lighting Control*, Proceedings of the 2016 International Conference and Exposition on Electrical and Power Engineering (EPE), Iasi, ROMANIA OCT 20-22, 2016, Pages: 466-471, ISBN:978-1-5090-6128-0 (ISI)
21. **Barz C.**, Latinovic, T., Deaconu, S., Preradovic, DM., Pop P.P., Pop-Vadean A., *Using Moeller PLC in automation of an artesian fountains*, International Conference on Applied Sciences (ICAS2016) 25–27 May 2016, Hunedoara, Romania, IOP Conf. Series: Materials Science and Engineering 163 (2017) 012052, pp 1-12 doi:10.1088/1757-899X/163/1/012052 (ISI)
22. Pop P.P., Pop-Vadean A., **Barz C.**, Latinovic T., *Transdisciplinary integration and interfacing software in mechatronic system for carbon sequestration and harvesting energy in the agricultural soils for rewarding farmers through green certificates*, International Conference on Applied Sciences (ICAS2016) 25–27 May 2016, Hunedoara, Romania, IOP Conf. Series: Materials Science and Engineering 163 (2017) 012044, pp 1-12 doi:10.1088/1757-899X/163/1/012044 (ISI)
23. Jalba K. C., Muminovic A., Epple S., **Barz C.**, Nasui V. *Integration of disabled people in an automated work process*, International Conference on Innovative Ideas in Science (IIS2016), 10–11 Nov 2016, Baia Mare, Romania, IOP Conf. Series: Materials Science and Engineering, Vol. 200 (2017) 012053, pp 1-12 doi:10.1088/1757-899X/200/1/012053
24. Jalba K. C., Muminovic A., **Barz C.**, Nasui V. *Automated Assembling of Single Fuel Cell Units*, International Conference on Innovative Ideas in Science (IIS2016), 10–11 Nov 2016, Baia Mare, Romania, IOP Conf. Series: Materials Science and Engineering 200 (2017) 012055, pp 1-8, doi:10.1088/1757-899X/200/1/012055
25. Jalba K. C., Muminovic A., Epple S., **Barz C.**, Nasui V. *Optical Gripper*, International Conference on Innovative Ideas in Science (IIS2016), 10–11 Nov 2016, Baia Mare, Romania, IOP Conf. Series: Materials Science and Engineering 200 (2017) 012054, pp 1-12, doi:10.1088/1757-899X/200/1/012054 (ISI)
26. Berdie A., Osaci M., Muscalagiu I., **Barz C.**, *A combined approach of AHP and TOPSIS methods applied in the field of integrated software systems* International Conference on Innovative Ideas in Science (IIS2016), 10–11 Nov 2016, Baia Mare, Romania, IOP Conf. Series: Materials Science and Engineering 200 (2017) 012041, pp 1-6, doi:10.1088/1757-899X/200/1/012041 (ISI)
27. Pop P.P., Pop-Vadean A., **Barz C.**, Latinovic T., Chiver O. *System monitoring feedback in cinemas and harvesting energy of the air conditioning condenser* International Conference on Innovative Ideas in Science (IIS2016), 10–11 Nov 2016, Baia Mare, Romania, IOP Conf. Series: Materials Science and Engineering 200 (2017) 012037, pp 1-6, doi:10.1088/1757-899X/200/1/012037 (ISI)
28. Pop-Vadean A., Pop P.P., Latinovic T., **Barz C.**, Lung C., *Harvesting energy an sustainable power source, replace batteries for powering WSN and devices on the IoT* International Conference on Innovative Ideas in Science (IIS2016), 10–11 Nov 2016, Baia Mare, Romania, IOP Conf. Series: Materials Science and Engineering 200 (2017) 012043, pp 1-9, doi:10.1088/1757-899X/200/1/012043 (ISI)
29. Preradovic, D. M., Mičić Lj S, **Barz C.** *Software for improving the quality of project management, a case study: international manufacture of electrical equipment*, International Conference on Innovative Ideas in Science (IIS2016), 10–11 Nov 2016, Baia Mare, Romania, IOP Conf. Series: Materials Science and Engineering 200 (2017) 012044, pp 1-6, doi:10.1088/1757-899X/200/1/012044 (ISI)

30. Drăgan F., Lupu V. V., Pallag A., **Barz C.**, Fodor K., *Rational consumption of nutrients at school-aged children*, International Conference on Innovative Ideas in Science (IIS2016), 10–11 Nov 2016, Baia Mare, Romania, IOP Conf. Series: Materials Science and Engineering 200 (2017) 012063, pp 1-6, doi:10.1088/1757-899X/200/1/012063 (ISI)
31. Latinovic, T., Preradovic, D., **Barz C.**, Pop-Vadean A., Todić M., *Big Data as the basis for the innovative development strategy of the Industry 4.0*, International Conference on Applied Sciences (ICAS2018) 09–11 May 2018, Banja Luka, Republ Srpska, Bosnia & Herzegovina, IOP Conf. Series: Materials Science and Engineering Vol. 477 (2019), pp 1-7, ISSN 1757-8981, 012045 doi:10.1088/1757-899X/477/1/012045 (ISI)
32. **Barz, Cristian**; Lung, Claudiu; Olivian, Chiver, Jalba Claudiu Klaus, *The Development of an Intelligent Gripper with Freely Programmable Controls*, 10th International Conference and Expositions on Electrical and Power Engineering (EPE), Iasi, ROMANIA Date: OCT 18-19, 2018 Gheorghe Asachi Tech Univ Iasi, Fac Elect Engn; IEEE Romania Sect; IEEE; Setis; Fac Elect Engn Iasi, Graduates Assoc, 2018, Pages: 479-482 Published: 2018
33. Chiver, Olivian; Neamt, Liviu; **Cristian, Barz**; et al., *Study on the Autonomous Asynchronous Generator*, 10th International Conference and Expositions on Electrical and Power Engineering (EPE) Location: Iasi, ROMANIA Date: OCT 18-19, 2018 IEEE Romania, 2018 INTERNATIONAL CONFERENCE AND EXPOSITION ON ELECTRICAL AND POWER ENGINEERING (EPE) Book Series: International Conference and Exposition on Electrical and Power Engineering Pages: 863-866 Published: 2018
34. Chiver, O; Neamt, L; Matei, O; Erdei, Z; **Barz, C.**, *Utilization of Finite Elements Programs and Matlab Simulink in the Study of a Special Electrical Motor*, **INTERNATIONAL JOURNAL OF ADVANCED COMPUTER SCIENCE AND APPLICATIONS** Volume: 8 Issue: 4 Pages: 317-323 Published: APR 2017, ISSN: 2158-107X, eISSN: 2156-5570
35. Olivian CHIVER, Liviu NEAMT, **Cristian BARZ**, Eleonora POP, Cristinel COSTEA, Zoltan ERDEI *Study on the End Winding Inductance of Three-Phase Windings in Two Layers*, **TECHNICAL GAZETTE**, Volume: 26 Issue: 5 (Print: ISSN 1330-3651, Online: ISSN 1848-6339) DOI:10.17559/TV-20180113134742 (**Oct.2019**)
36. Syrek Przemyslaw; **Barz Cristian**; Skowron Mikolaj, Ciesla, Antoni, *Eddy Currents Distribution in Upper Extremities During Magnetotherapy*, 11th International Symposium on Advanced Topics in Electrical Engineering (ATEE) Location: Bucharest, ROMANIA Date: MAR 28-30, 2019, 11TH INTERNATIONAL SYMPOSIUM ON ADVANCED TOPICS IN ELECTRICAL ENGINEERING (ATEE) Book Series: International Symposium on Advanced Topics in Electrical Engineering, ISBN:978-1-4799-7514-3, ISSN: 1843-8571, WOS:000475904500124

D. Lucrări publicate în ultimii 10 anii BDI sau neindexate

37. Oprea, C., Sereghi, A., **Barz, Cr.**, Chiver, Ol., *Contribution through labview simulation to a domestic house automation*, 6th International Conference on Electromechanical and Power Systems SIELMEN 2007 (4-6 Oct. 2007 – Chişinău), *Anal. of the University Craiova*, Seria Inginerie Electrică, Anul: 31, Nr. 31, Vol. I, pg. 160 – 163, ISSN 1842-4805, Editura Universitaria, Craiova, 2007. (BDI)
38. Chiver, O., Oprea, C., Horgoş, M., Neamţ, L., **Barz, Cr.**, *The computation of reaction and homopolar inductances of a synchronous machine, with 2d numerical analysis software*, 6th International Conference on Electromechanical and Power Systems SIELMEN 2007 (4-6 Oct. 2007 – Chişinău), *Anal. of the University Craiova*, Seria Inginerie Electrică, Anul: 31, Nr. 31, Vol. II, pg. 134 – 137, ISSN 1842-4805, Editura Universitaria, Craiova, 2007. (BDI)
39. Oprea, C., Sereghi, Al., **Barz, C.**, Chiver, O., Neamt, L., *Programmable telemetric automats of rtu type in a technological lines automation*, The International Conference of The Capathian Euro-Region Specialists in Industrial Systems, 7 th Edition, Scientific Bulletin, Serie C, Vol. XXII, North University of Baia Mare, ISSN 1224-3264, pg. 337-342, 2008.

40. Oprea, C., **Barz, Cr.**, Sereghi, Al., *Contributions to the implementation of the telemetric programmable automats by rtu type for automation, monitoring and control installations*, HUNEDOARA, CD CONFERINTA INT., 2009.
41. **Barz, Cr.**, Oprea, C., Chiver O., *Modelig of Lundell alternator*, 6-th Japanese-Mediteranean Workshop on Applied Electromagnetic Engineering for Magnetic, Superconducting and Nano Materials, Extended Abstracts Conference Proceeding, pg. 193-194, ISBN 978-606-521-346-3, <http://japmed6.elth.pub.ro>, Bucuresti, 2009 (BDI)
42. **Barz, Cr.**, Oprea, C., *Contribution to the tridimensional analysis of electromagnetic field in claw poles alternator*, Journal of Electrical and Electronics Engineering, Vol. 3, Nr. 1, ISSN1844-6035 (B+), pg. 29-34, Oradea, 2010, <http://electroinf.uoradea.ro/reviste/default.html>.
43. Chiver O., Neamț L., Erdei Z., **Barz, Cr.**, *5. Induction motor analysis by finite elements method*, Journal of Electrical and Electronics Engineering, Vol. 3, Nr. 2, ISSN1844-6035 (B+), pg. 51-54, Oradea, 2010, <http://electroinf.uoradea.ro/reviste/default.html>.
44. Oprea, C., **Barz, Cr.**, Sereghi, Al., *Contributions to the implementation of the telemetric programmable automats by rtu type for automation, monitoring and control installations*, Annals of Faculty Engineering Hunedoara, – International Annals of Faculty Engineering Hunedoara, – International Journal of Engineering, ISSN: 1584-2665, (B+), Tome VIII, Fascicule 3, pg. 37-44, 2010, <http://annals.fih.upt.ro/pdf-full/2010/ANNALS-2010-3-07.pdf>
45. Oprea G., Michnea A., Mihali C., Senila M., Roman C., Jelea S., Butean C., **Barz C.**, *Arsenic and Antimony Content in Soil and Plants from Baia Mare Area, Romania*, American Journal of Environmental Sciences 6 (1), ISSN 1553-345X, pag.33-40, 2010, New York, USA.
46. Oprea, C., **Barz, Cr.**, *Contribution to automate regulation after the speed of actions with asynchronized synchronous motor*, Annals of Faculty Engineering Hunedoara-International Journal of Engineering, Tome IX (2011), Extra Fascicule, pg. 111-122, ISSN 1584 – 2673, (B+).
47. **Barz, Cr.**, Oprea, C., *Study of electromagnetic field in claw-poles alternator*, Annals of Faculty Engineering Hunedoara-International Journal of Engineering, Tome IX (2011), Extra Fascicule, pg. 359-362, ISSN 1584 – 2673, (B+).
48. **Barz, Cr.**, Oprea, C., Dragan, F., *Numerical modeling of claw-poles alternator*, Carpathian Journal of Electronic and Computer Engineering, Vol. 5 (2012), pg. 9-12, ISSN 1844 – 9689, (B+)
49. **Barz, Cr.**, Oprea, C., Lung, C., *Analysis the influence of nonferrous materials in claw-poles alternator*, Buletinul AGIR nr. 4, 2012, pg. 95-100, ISSN 1224-7928, (B+)
50. Oprea, C., **Barz, Cr.**, Lung, C., *Contributions to the design of electromagnetic powder brakes*, Buletinul AGIR nr. 4, 2012, pg. 217-221, ISSN 1224-7928, (B+)
51. Chiver O., Horgoș M., Neamț L., **Barz C.**, „*Comparative analysis regarding leakage inductances determination of synchronous machine using FEM*”, International Symposium for Design and Technology of Electronic Packages – 13th Edition, SIITME 2007, Baia Mare, Romania, 20-23 Septembrie, ISSN 1843-5122, pp. 65-67, 2007;
52. O. Chiver, M. Horgos, **Barz, Cr.**, Eleonora Pop, *About end winding inductance computation of AC Machines using FEM 3D*, The International Conference of the Carpathian Euro-Region specilaists in industrial systems 7 th Edition, Scientific bulletin Serie C, Volume XXII, Fascicle: Mechanics, Tribology, Machine Manufacturing Technology, Baia Mare, 21-23 May, 2008, cod CNCSIS 610, ISSN 1224-3264, pag. 87-90
53. O. Chiver, M. Horgos, **Barz, Cr.**, and E. Pop, *Consideration about stator winding leakage inductances determination by FEA*, 2008, 5 th International Conference on Electrical and Power Engineering, EPE 2008, Buletinul Institutului Politehnic din Iasi, Tomul LIV (LVIII), Fasc.4, Electrotehnică, Energetică, Electronică, 3-5 October 2008, cod CNCSIS 87, ISSN 1223-8139, pag.783-788
54. O. Chiver, M. Horgos, **Barz C.**, Eleonora Pop, 2008, *About end winding inductance computation of AC Machines using FEM 3D*, The International Conference of the Carpathian Euro-Region specilaists in industrial systems 7 th Edition, Scientific bulletin Serie C, Volume XXII, Fascicle: Mechanics, Tribology, Machine Manufacturing Technology, Baia Mare, 21-23 May, 2008, cod CNCSIS 610, ISSN

1224-3264, pag. 87-90

55. Chiver O., **Barz C.**, Pop E., „*Aspects regarding induction motors rotor parameters determination by FEA*”, The 7th International Conference on Electromechanical and Power Systems, SIELMEN 2009, October 8-9, Iași, România, 2009;
56. **Barz, Cr.**, Oprea, C., Chiver, O., *Influența materialelor nemagnetice la analiza tridimensională a câmpului electromagnetic la alternatorul cu poli gheară*, Simpozionul Național De Electrotehnică Teoretică SNET'2009, ISSN 2067 – 4147, pg. 234-239, Bucuresti, 2009.
57. Oprea, C., **Barz, Cr.**, *Contributions to the study of an autonomous inverter aimed at increasing its performances*, BAIA MARE, 2009.
58. Oprea, C., **Barz, Cr.**, *Contribution to automate regulation after the speed of actions with asynchronous synchronous motor*, International Symposium on Advanced Engineering and Applied Management – 40th Anniversary in Higher Education, CD, 2-4 Nov., 2010, Hunedoara.
59. **Barz, Cr.**, Oprea, C., *Study of electromagnetic field in claw-poles alternator*, International Symposium on Advanced Engineering and Applied Management – 40th Anniversary in Higher Education, CD, 2-4 Nov., 2010, Hunedoara.
60. **Barz, C.**, Oprea, C. *Contributions to the tridimensional analysis of electromagnetic field in claw-poles alternator*, Journal of Electrical and Electronics Engineering, Volume 3, Issue 1, 2010, Pages 29-34, ISSN:1844-6035E-ISSN:2067-2128
61. **Barz, C.**, Oprea, C. *Study of an autonomous inverter and contributions to raise the performances*, Journal of Electrical and Electronics Engineering, Volume 3, Issue 2, 2010, Pages 33-36, ISSN:1844-6035E-ISSN:2067-2128
62. Chiver, O., **Barz, C.**, Neamț, L., Erdei, Z. *Induction motor analysis by finite elements method*, Journal of Electrical and Electronics Engineering, Volume 3, Issue 2, 2010, Pages 51-54, ISSN:1844-6035E-ISSN:2067-2128
63. Horgos M., Chiver O., **Barz C.**, *Contributions to the study of the dynamic operating regime of an electromagnetic vibrator*, Carpathian Journal of Electrical Engineering, Volume 5, Number 1, 2011, pag. 19-27
64. Lung C., Sabou S., **Barz C.** *Smart sensor implemented with PicoBlaze multi-processors technology – International Symposium for Design and Technology of Electronic Packages, SIITME 2012, 18th Edition, Alba Iulia, Romania, October 25-28, 2012, p.241-245, Print ISBN: 978-1-4673-4757-0, Digital Object Identifier: 10.1109 /SIITME. 2012. 6384384*
65. O. Chiver, L. Neamt, **C. Barz**, D. Pop, *Torque-Slip Characteristic of Squirrel Cage Induction Motor by New FEA Technique*, in Proc. Conference on the Computation of Electromagnetic Fields (COMPUMAG), 2013.
66. **Barz C.**, Latinovic T., Erdei Z., Domide G., Balan A., *Siemens PLC and interfaces Weintek used in the control of a robotic arm*, The International Conference of the Carpathian Euro-Region Specialists in Industrial Systems, CEurSIS 2014, 10th Edition, 11-13 September, 2014, Baia Mare, Romania, Editura U.T.PRESS Cluj-Napoca, ISBN 978-606-737-003-4, pag. 159-162
67. Horgos M., Erdei Z., **Barz C.**, *The Management of Energy Consumption from an Economic Objective*, The International Conference of the Carpathian Euro-Region Specialists in Industrial Systems, CEurSIS 2014, 10th Edition, 11-13 September, 2014, Baia Mare, Romania, Editura U.T.PRESS Cluj-Napoca, ISBN 978-606-737-003-4, pag. 190-195 management of electricity to a county library
68. Oprea, C., **Barz C.**, *Contributions to the Study through Frequency Characteristics of the Electromagnetic Induction Couplings and Brakes*, The International Conference of the Carpathian Euro-Region Specialists in Industrial Systems, CEurSIS 2014, 10th Edition, 11-13 September, 2014, Baia Mare, Romania, Editura U.T.PRESS Cluj-Napoca, ISBN 978-606-737-003-4, pag. 206-210
69. Horgos M., Erdei Z., **Barz C.**, *Management of electricity to a county library*, Carpathian Journal of Electrical Engineering, Volume 8, Number 1, 2014, ISSN 1843 – 7583, <http://cee.ubm.ro/cjee.html>, pag.44-53.

70. **Barz C.**, Latinovic T., Erdei Z., Domide G., Balan A., *Practical application with PLC in manipulation of a robotic arm.*, Carpathian Journal of Electrical Engineering, vol. 8, no. 1, 2014, ISSN 1843 – 7583
71. Horgos M., Erdei Z., **Barz C.**, Birsan I., Ilia M., *Contributions to Testing Residual Current Devices at Different Frequency Values*, 6Th International Conference on Modern Power Systems MPS 2015, 18-21 May 2015, Cluj Napoca, Romania, Acta Electrotehnica, Vol 56 (3).
72. Latinovic, T., Kalabic S. B., **Barz C.**, Pop P.P., Pop-Vadean A., *Analysis of time in establishing synchronization radio communication system with expanded spectrum conditions for communication with mobile robots*, International Conference on Applied Sciences (ICAS2017) 10–12 May 2017, Hunedoara, Romania, IOP Conf. Series: Materials Science and Engineering Vol. 294 (2018) 012060 pp:1-15 doi:10.1088/1757-899X/294/1/012060 (BDI)
73. Jalba Claudius Klaus, **Barz C.**, *Adjustment of gripping force by optical*, International Conference on Applied Sciences (ICAS2017) 10–22 May 2017, Hunedoara, Romania, IOP Conf. Series: Materials Science and Engineering Vol. 294 (2018) 012094, pp 1-10, doi:10.1088/1757-899X/294/1/012094 (BDI)
74. Alaci, S., Ciornei, F.-C., Musca, I., Barz, C., Siretean, S.T. *An accurate technique for finding the coefficient of rolling friction using the inclined plane method*, **Journal of the Balkan Tribological Association**, Volume: 24, Issue 4, Pages 679-689, Published: Dec 2018, ISSN 1310-4772

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