

SCIENTIFIC PUBLICATIONS

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PhD Thesis

L. Czumbil: „Dezvoltarea unui Pachet Software Bazat pe Tehnici Moderne de Analiză a Fenomenelor de Interferență Electromagnetică dintre Liniile Electrice Aeriene și Conductele Metalice Înceinate” (Eng: *Software Package Developments Based on Modern Analysis Techniques of the Electromagnetic Interference Problems between Electrical Power Lines and Nearby Metallic Pipelines*), PhD supervisor Prof.Dr.Eng. Dan Ovidiu Micu, Faculty of Electrical Engineering, Technical University of Cluj-Napoca, defended in November **2012**

A. Published Books and Book Chapters

[A1] D. Șteț, D.D. Micu & **L. Czumbil:** *Analiza, Modelarea și Predicția Fenomenelor de Interferență Electromagnetică dintre Liniile Electrice de Înaltă Tensiune și Structurile Metalice Înceinate. Elemente de Matematici*, Ed. Mediamira, ISBN: 978-973-713-336-6, pag. 320 Cluj-Napoca, Romania, **2016**.

[A2] D.D. Micu, L. Dărăbant, D. Șteț, M. Crețu, A. Ceclan & **L. Czumbil:** *Teoria Circuitelor Electrice. Probleme*, Ed. U.T. Press, ISBN: 978-606-737-140-6, pag. 280, Cluj-Napoca, Romania, **2016**.

[A3] D.D. Micu, G.C. Christoforidis & **L. Czumbil:** „Artificial Intelligence Techniques Applied to Electromagnetic Interference Problems Between Power Lines and Metal Pipelines” in *Recurrent Neural Networks and Soft Computing*, Ed. InTech, ISBN: 978-953-51-0409-4, Ch. 12, pp. 253-274, Rijeka, Croatia, **2012**. Doi: [10.5772/37637](https://doi.org/10.5772/37637)

[A4] D.D. Micu, A. Ceclan, **L. Czumbil** & D. Csala: *Numerical Methods*, Ed. Mediamira, ISBN: 978-973-713-278-9, Cluj-Napoca, Romania, **2010**.

B. Papers published in ISI Journals

[B1] M. Ruba, F. Jurca, **L. Czumbil**, D.D. Micu, C. Martiș, A. Polycarpou & R. Rizzo: „Synchronous Reluctance Machine Geometry Optimisation through a Genetic Algorithm based Technique”, *IET Electric Power Applications*, ISSN: 1751-8660, vol. 12, no. 3, pp. 431-438, **2018**. Doi: [10.1049/iet-epa.2017.0455](https://doi.org/10.1049/iet-epa.2017.0455), WOS: 000427928200017, **IF_2017 = 2.211**

[B2] M.S. Munteanu, **L. Czumbil**, D.D. Micu, Ș.F. Braicu, S. Nemeti & M. Pîslaru: „Measurement of Soil Resistivity in order to Determine the Buried Walls Trajectory”, *Advances in Electrical and Computer Engineering (AECE)*, ISSN: 1582-7445, vol. 17, no. 1, pp. 103-108, **2017**. Doi: [10.4316/AECE.2017.01015](https://doi.org/10.4316/AECE.2017.01015), WOS: 000396335900015, **IF_2017 = 0.699**

[B3] D.D. Micu, G.C. Christoforidis & **L. Czumbil**: „AC Interference on Pipelines due to Double Circuit Power Lines: A detailed study”, *Electric Power System Research*, ISSN: 0378-7796, vol. 103, pp. 1-8, **2013**. Doi: [10.1016/j.epsr.2013.04.008](https://doi.org/10.1016/j.epsr.2013.04.008), WOS: 000322939700002, **IF_2017 = 2.856**

[B4] A. Ceclan, V. Țopa, D.D. Micu, **L. Czumbil**, A. Șimon & O. Creț: „Improved Framework for Monte Carlo Numerical Evaluations in Field Interference Problems”, *International Journal of Applied Electromagnetics and Mechanics*, ISSN: 1383-5416, vol. 39, no. 1-4, pp. 693-698, **2012**, Doi: [10.3233/JAE-2012-1530](https://doi.org/10.3233/JAE-2012-1530), WOS: 000309602700096, **IF_2017 = 0.804** (conf. art.)

[B5] D.D. Micu., **L. Czumbil**, G.C. Christoforidis, A. Ceclan & D. Șteț: „Evaluation of Induced AC Voltages in Underground Metallic Pipeline”, *COMPEL: The International Journal for Computation and Mathematics in Electrical and Electronic Engineering*, ISSN: 0332-1649, vol. 31, no. 4, pp.1133-1143, **2012**. Doi: [10.1108/0332164121122737](https://doi.org/10.1108/0332164121122737), WOS: 000308896700009, **IF_2017 = 0.543**

[B6] D. Șteț, D.D. Micu, **L. Czumbil**, L. Dărăbant, & A. Ceclan: „Simulation of Interferences between Power Lines and Gas Pipelines in Unbalanced Phase Currents State”, *COMPEL: The International Journal for Computation and Mathematics in Electrical and Electronic Engineering*, ISSN: 0332-1649, vol. 31, no. 4, pp.1718-1189, **2012**. Doi: [10.1108/03321641211227447](https://doi.org/10.1108/03321641211227447), WOS: 000308896700014, **IF_2017 = 0.543**

[B7] D.D. Micu, **L. Czumbil**, G.C. Christoforidis & E. Simion: „Neural Networks Applied in Electromagnetic Interference Problems”, *Revue Roumain des Sciences Techniques, Serie Electrotechnique et Energetique*, ISSN: 0035-4066, vol. 57, no. 2, pp.162-171, **2012**. WOS: 000305202600006, **IF_2017 = 1.114**

[B8] D.D. Micu, **L. Czumbil**, G.C. Christoforidis & A. Ceclan: „Layer Recurrent Neural Network Solution for an Electromagnetic Interference Problem”, *IEEE Transaction on Magnetics*, ISSN: 0018-9464, vol. 47, no. 5, pp. 1410-1413, May, **2011**. Doi: [10.1109/TMAG.2010.2091494](https://doi.org/10.1109/TMAG.2010.2091494), WOS: 000289909100138, **IF_2017 = 1.467**

C. Articles in ISI Proceedings (7 as first author)

[C1] A.M. Măgurean, L. Czumbil, D.L. Manea & D.D. Micu: „Artificial Intelligence based Prediction Model for the Long-Term Heat Flux Losses through Ground Applied to Large Non-Residential Buildings”, *Procedia Manufacturing*, ISSN: 2351-9789, vol. 32, pp. 434-441, **2019** from *12th International Conference Interdisciplinarity in Engineering (INTER-ENG)*, Tirgu Mures, Romania, 4-5 October, 2018. DOI: [10.1016/j.promfg.2019.02.237](https://doi.org/10.1016/j.promfg.2019.02.237) WOS:000471295800062

[C2] L. Dărăbant & L. Czumbil: „Modeling the Symmetrization of Single Phase Receivers Using OrCAD a New Approach in Teaching Electrical Engineering”, *International Conference and Exposition on Electrical and Power Engineering (EPE)*, ISBN: 978-1-5386-5061-5, Iași, Romania, October 18-19, **2018**. Doi: [10.1109/ICEPE.2018.8559900](https://doi.org/10.1109/ICEPE.2018.8559900) WOS: 000458752200164

[C3] L. Czumbil, D. Șteț, A. Ceclan, L. Dărăbant, M. Crețu & D.D. Micu: „Numerical Stability Studies for AC and DC Electrical Circuits”, *53rd International Universities Power Engineering Conference (UPEC)*, ISBN: 978-1-5386-2910-9, Glasgow, UK, September 4-7, **2018**. Doi: [10.1109/UPEC.2018.8541993](https://doi.org/10.1109/UPEC.2018.8541993) WOS: 000468972100126

[C4] B. Bârgăuan, M. Crețu, O. Fati, A. Ceclan, L. Dărăbant, D.D. Micu, D. Șteț & L. Czumbil: „Energy Management System for the Demand Response in TUCN Buildings”, *53rd International Universities Power Engineering Conference (UPEC)*, ISBN: 978-1-5386-2910-9, Glasgow, UK, September 4-7, **2018**. Doi: [10.1109/UPEC.2018.8541949](https://doi.org/10.1109/UPEC.2018.8541949) WOS: 000468972100095

[C5] B. Bârgăuan, O. Fati, A. Ceclan, D.D. Micu, D. Șteț, L. Czumbil & P. Mureșan: „Demand Response on Blocks of Buildings – Romanian Pilot Site Innovation Project”, *7th International Conference on Modern Power Systems (MPS)*, ISBN:978-1-5090-6565-3, Cluj-Napoca, Romania, June 6-9, **2017**. Doi: [10.1109/MPS.2017.7974433](https://doi.org/10.1109/MPS.2017.7974433) WOS:000428462600061

[C6] D. Șteț, L. Czumbil, A. Ceclan, L. Dărăbant & D.D. Micu: „Implementing nZEB Skills in Romanian High Education Curricula”, *7th International Conference on Modern Power Systems (MPS)*, ISBN:978-1-5090-6565-3, Cluj-Napoca, Romania, June 6-9, **2017**. Doi: [10.1109/MPS.2017.7974457](https://doi.org/10.1109/MPS.2017.7974457) WOS:000428462600085

[C7] A. Ceclan, D.D. Micu, D. Șteț, L. Czumbil, P. Mureșan, B. Bârgăuan, D. Dranca & H. Pop: „Urban Energy Management - Cluj-Napoca Approach”, *7th International Conference on Modern Power Systems (MPS)*, ISBN:978-1-5090-6565-3, Cluj-Napoca, Romania, June 6-9, **2017**. Doi: [10.1109/MPS.2017.7974432](https://doi.org/10.1109/MPS.2017.7974432) WOS:000428462600060

[C8] Ș.F. Braicu, L. Czumbil, D.D. Micu, D. Șteț, A. Ceclan, E. Simion & H. Nouri: „Load Flow Analysis in a 110/20 kV Romanian Substation”, *7th International Conference on Modern Power Systems (MPS)*, ISBN:978-1-5090-6565-3, Cluj-Napoca, Romania, June 6-9, **2017**. Doi: [10.1109/MPS.2017.7974421](https://doi.org/10.1109/MPS.2017.7974421) WOS:000428462600049

[C9] L. Czumbil, Ș.F. Braicu, D.D. Micu, D. Șteț & A. Ceclan: „Analysis of Load Flow and Short-Circuit Issues in a Retrofitted 110/20 kV Romanian Substation”, *14th International Conference on Engineering of Modern Electric Systems (EMES)*, ISBN: 978-1-5090-6073-3, Oradea, Romania, June 1-2, **2017**. Doi: [10.1109/EMES.2017.7980371](https://doi.org/10.1109/EMES.2017.7980371) WOS: 000427085200004

[C10] Ș.F. Braicu, L. Czumbil, D. Șteț & D.D. Micu: „Evaluation of the Electric and Magnetic Field Near High Voltage Power Lines”, *IFMBE Proceedings*, ISSN: 1680-0737, vol. 59, pp. 141-146, presented at *5th International Conference on Advancements of Medicine and Health Care through Technology (MEDITECH)*, Cluj-Napoca, Romania, October 12-15, **2016**. Doi: [10.1007/978-3-319-52875-5_32](https://doi.org/10.1007/978-3-319-52875-5_32) WOS:000426009100032

[C11] D.D. Micu, B. Bârgăuan, A. Ceclan, D. Șteț, L. Czumbil, A. Căținean & A. Polycarpou: „On a Demand Response Pilot Demonstration in the Technical University of Cluj-Napoca”, *9th International Conference and Exposition on Electrical and Power Engineering (EPE)*, ISBN: 978-1-5090-6128-0, pp. 785-791, Iași, Romania, October 20-22, **2016**. Doi: [10.1109/ICEPE.2016.7781445](https://doi.org/10.1109/ICEPE.2016.7781445) WOS: 000390706300155

[C12] D.D. Micu, Ș.F. Braicu, L. Czumbil & D. Șteț: „Load Flow and Short-Circuit Analysis in a Romanian 110/20 kV Retrofitted Substation”, *51st International Universities Power Engineering Conference (UPEC)*, ISBN: 978-1-5090-4650-8, Coimbra, Portugal, September 06-09, **2016**. Doi: [10.1109/UPEC.2016.8114111](https://doi.org/10.1109/UPEC.2016.8114111) WOS: 000466894400135

[C13] L. Czumbil, D.D. Micu, D. Șteț & A. Ceclan: „A Neural Network approach for the Inductive Coupling between Overhead Power Lines and nearby Metallic Pipelines”, *International Symposium on Fundamentals of Electrical Engineering (ISFEE)*, ISBN: 978-1-4673-9575-5, Bucharest, Romania, June 30 – July 02, **2016**. Doi: [10.1109/ISFEE.2016.7803231](https://doi.org/10.1109/ISFEE.2016.7803231) WOS: 000392434400083

[C14] L. Czumbil, D.D. Micu, C. Munteanu, D. Șteț & B. Tomoiogă: „Optimal Design of the Pipeline Right-of-Way Nearby High Voltage Transmission Lines using Genetic Algorithms”, *50th International Universities Power Engineering Conference (UPEC)*, ISBN: 978-1-4673-9682-0, Stoke on Trent, UK, September 01-04, **2015**. Doi: [10.1109/UPEC.2015.7339841](https://doi.org/10.1109/UPEC.2015.7339841) WOS: 000377369500082

[C15] J. Kim, L. Czumbil & H. Nouri: „Component Model Effect on Fast-Front Overvoltages in Gas Insulated Substations”, *50th International Universities Power Engineering Conference (UPEC)*, ISBN:978-1-4673-9682-0, Stoke on Trent, UK, September 01-04, **2015**. Doi: [10.1109/UPEC.2015.7339833](https://doi.org/10.1109/UPEC.2015.7339833) WOS: 000377369500074

[C16] L. Czumbil, D.D. Micu, C. Munteanu & D. Șteț: „Optimization of Pipeline-Overhead Line Right-of-Way using Genetic Algorithms”, *9th International Symposium on Advanced Topics in Electrical Engineering (ATEE)*, ISBN:978-1-4799-7514-3, pp. 531-534, Bucharest, Romania, May 07-09, **2015**. Doi: [10.1109/ATEE.2015.7133865](https://doi.org/10.1109/ATEE.2015.7133865) WOS: 000368159800100

[C17] D. Şteţ, D.D. Micu, **L. Czumbil** & B. Manea: „Case Studies on Electromagnetic Interference between HVPL and Buried Pipelines”, *International Conference and Exposition on Electrical and Power Engineering (EPE)*, ISBN: 978-1-4799-5849-8, pp. 231-236, Iaşi, Romania, October 16-18, **2014**. Doi: [10.1109/ICEPE.2014.6969903](https://doi.org/10.1109/ICEPE.2014.6969903) WOS: 000353565300038

[C18] A. Ceclan, A. Holhos, D.D. Micu, S. Spinean, **L. Czumbil** & A. Andreotti: „Lightning Return Stroke Current Reconstruction for Vertical and Variable Channel Shape”, *International Conference on Lightning Protection (ICLP)*, ISBN: 978-1-4799-3544-4, pp. 1370-1375, Shanghai, China, October 11-18, **2014**. Doi: [10.1109/ICLP.2014.6973344](https://doi.org/10.1109/ICLP.2014.6973344) WOS: 000358572100260

[C19] **L. Czumbil**, D. Şteţ, D.D. Micu, S.F. Braicu, B. Manea & S. Spinean: „Analysis of Induced Electromagnetic Perturbations in Electrical and Telecommunication Cables due to Lightning Currents”, *49th International Universities Power Engineering Conference (UPEC)*, ISBN: 978-1-4799-6556-4, Cluj-Napoca, Romania, September 02-05, **2014**. Doi: [10.1109/UPEC.2014.6934633](https://doi.org/10.1109/UPEC.2014.6934633) WOS: 000364087800039

[C20] D. Şteţ, D.O. Micu, A. Ceclan, **L. Czumbil**, M. Munteanu, M. Creţu & A. Nicu: „Numerical Modelling of a Wind Farm Located in the South Area of Romania through Equivalent Electrical Circuits”, *49th International Universities Power Engineering Conference (UPEC)*, ISBN: 978-1-4799-6556-4, Cluj-Napoca, Romania, September 02-05, **2014**. Doi: [10.1109/UPEC.2014.6934634](https://doi.org/10.1109/UPEC.2014.6934634) WOS: 000364087800040

[C21] T.A. Papadopoulos, G.C. Christoforidis, D.D. Micu & **L. Czumbil**: „Medium-Voltage Cable Inductive Coupling to Metallic pipelines: A Somprehensive Study”, *49th International Universities Power Engineering Conference (UPEC)*, ISBN: 978-1-4799-6556-4, Cluj-Napoca, Romania, September 02-05, **2014**. Doi: [10.1109/UPEC.2014.6934713](https://doi.org/10.1109/UPEC.2014.6934713) WOS: 000364087800113

[C22] K. Vezer, A. Ceclan & **L. Czumbil**: „EMpower University Efficiency. Solutions Investigation within the Buildings of Technical University of Cluj-Napoca”, *49th International Universities Power Engineering Conference (UPEC)*, ISBN: 978-1-4799-6556-4, Cluj-Napoca, Romania, September 02-05, **2014**. Doi: [10.1109/UPEC.2014.6934632](https://doi.org/10.1109/UPEC.2014.6934632) WOS: 000364087800038

[C23] **L. Czumbil**, D.D. Micu, D. Şteţ, G.C. Christoforidis & L. Ancăş: „HVPL Conductor Sag Influence on Induced Voltage Evaluation in Nearby Metallic Structures”, *48th International Universities' Power Engineering Conference (UPEC)*, ISBN: 978-1-4799-3254-2, Dublin, Ireland, September 02-05, **2013**. Doi: [10.1109/UPEC.2013.6714945](https://doi.org/10.1109/UPEC.2013.6714945) WOS: 000333750100093

[C24] G.C. Christoforidis, D.D. Micu, T.A. Papadopoulos, **L. Czumbil** & C.C. Parisses: „Interference Analysis from Medium-Voltage Cables of Photovoltaic Plants to Metallic Pipelines”, *48th International Universities' Power Engineering Conference (UPEC)*, ISBN: 978-1-4799-3254-2, Dublin, Ireland, September 02-05, **2013**. Doi: [10.1109/UPEC.2013.6715002](https://doi.org/10.1109/UPEC.2013.6715002) WOS: 000333750100150

[C25] **L. Czumbil**, D.D. Micu & F.I. Hathazi: „Operating Mode Prediction of a Microwave Heating System using Artificial Intelligence Techniques”, *8th International Symposium on Advanced Topics in Electrical Engineering (ATEE)*, ISBN: 978-1-4673-5979-5, Bucharest, Romania, May 23-25, **2013**. Doi: [10.1109/ATEE.2013.6563455](https://doi.org/10.1109/ATEE.2013.6563455) WOS: 000332928500109

[C26] D. Şteţ, **L. Czumbil** & L. Ancăş: „Investigation of Electromagnetic Interferences Issues”, *8th International Symposium on Advanced Topics in Electrical Engineering (ATEE)*, ISBN: 978-1-4673-5979-5, Bucharest, Romania, May 23-25, **2013**. Doi: [10.1109/ATEE.2013.6563457](https://doi.org/10.1109/ATEE.2013.6563457) WOS: 000332928500111

[C27] D. Şteţ, **L. Czumbil**, D.D. Micu & O. Miron: „Corosion Evaluation and Mitigation on Metallic Pipelines”, *International Conference and Exposition on Electrical and Power Engineering (EPE)*, ISBN: 978-1-4673-1173-1, pp. 554-559, Iaşi, Romania, October 25-27, **2012**. Doi: [10.1109/ICEPE.2012.6463875](https://doi.org/10.1109/ICEPE.2012.6463875) WOS: 000324685300097

[C28] D.D. Micu, **L. Czumbil**, A. Ceclan, L. Dărăbant, D. Şteţ & G.C. Christoforidis: „Electromagnetic Interferences Between HV Power Lines and Metallic Pipelines Evaluated with Neural Network Technique”, *10th International Conference on Electrical Power Quality and Utilisation (EPQU)*, ISBN: 978-1-4244-5171-5, Lodz, Poland, September 15-17, **2009**. Doi: [10.1109/EPQU.2009.5318842](https://doi.org/10.1109/EPQU.2009.5318842) WOS: 000274778700024

[C29] **L. Czumbil**, D.D. Micu & A. Ceclan: „Artificial Intelligence Techniques Applied to Electromagnetic Interference Problems”, *IFMBE Proceedings*, ISSN: 1680-0737, vol. 26, pp. 339-344, presented at *International Conference on Advancements of Medicine and Health Care Through Technology (MediTech)*, September 23-26, **2009**. Doi: [10.1007/978-3-642-04292-8_75](https://doi.org/10.1007/978-3-642-04292-8_75) WOS: 000281139900075

[C30] D.D. Micu, **L. Czumbil**, A. Ceclan & L. Dărăbant: „Accurate Methods for Solving Electromagnetic Interference Problems between Power Lines and Underground Metallic Pipelines”, *44th International Universities' Power Engineering Conference (UPEC)*, ISBN: 978-1-4244-6823-2, Glasgow, Scotland, September 01-04, **2009**. WOS: 000279099500020

[C31] A. Ceclan, C. Bărbulescu, D.D. Micu, D.O. Micu & **L. Czumbil**: „Magnetic Field Synthesis and Parameter Regularization by Fuzzy Inference Choice of Regularization Parameter by Fuzzy inference for Magnetic Field Synthesis”, *Conference on Human System Interaction (HSI)*, ISBN: 978-1-4244-1542-7, pp. 390-393, Krakow, Poland, May 25-27, **2008**. Doi: [10.1109/HSI.2008.4581470](https://doi.org/10.1109/HSI.2008.4581470) WOS: 000259867600072

[C32] A. Ceclan, C. Bărbulescu, D.D. Micu, D.O. Micu & **L. Czumbil**: „The Choice of Regularization Parameter by Fuzzy Inference for Magnetic Field Synthesis”, *11th International Conference on Optimization of Electrical and Electronic Equipment (OPTIM)*, ISBN: 978-142441544-1, pp. 71-76, Braşov, Romania, May 22-24, **2008**. Doi: [10.1109/OPTIM.2008.4602346](https://doi.org/10.1109/OPTIM.2008.4602346) WOS: WOS:000258474200012

[C33] Cs. Szász & **L. Czumbil**: „Artificial Molecule Development Model for Genes Implementation in Bio-inspired Hardware Systems”, *11th International Conference on Optimization of Electrical and Electronic Equipment (OPTIM)*, ISBN: 978-1-4244-1544-1, pp. 15-20, Braşov, Romania, May 22-24, **2008**. Doi: [10.1109/OPTIM.2008.4602491](https://doi.org/10.1109/OPTIM.2008.4602491)
WOS: 000258474700003

D. Papers indexed in International Data Bases (7 as first author)

[D1] Ş.F. Braicu, L. Czumbil, D. Şteţ, D.D. Micu, A. Ceclan, A. Mureşan, A. Polycarpou & E. Simion: „Interferences in High Voltage AC Power Line and Electric Railway Common Right-of-Way”, *8th International Conference on Modern Power Systems (MPS)*, eISBN: 978-1-7281-0750-9, Cluj-Napoca, Romania, May 21-23, **2019**. DOI: [10.1109/MPS.2019.8759770](https://doi.org/10.1109/MPS.2019.8759770)
(**IEEEExplore**)

[D2] M. Creţu, A. Ceclan, L. Czumbil, D. Şteţ, B. Bârgăuan & D.D. Micu: „Key Performance Indicators (KPIs) for the Evaluation of the Demand Response in the Technical University of Cluj-Napoca Buildings”, *8th International Conference on Modern Power Systems (MPS)*, eISBN: 978-1-7281-0750-9, Cluj-Napoca, Romania, May 21-23, **2019**. DOI: [10.1109/MPS.2019.8759770](https://doi.org/10.1109/MPS.2019.8759770)
(**IEEEExplore**)

[D3] **L. Czumbil**, D.D. Micu, D. Şteţ & A. Ceclan: „Inductive Coupling between Overhead Power Lines and nearby Metallic Pipelines. A Neural Network Approach”, *Carpathian Journal of Electrical Engineering (CJEE)*, ISSN: 1843-7583, vol. 9, no. 1, pp. 29-44, **2015**. (**EBSCO, DOAJ**)

[D4] D. Şteţ, D.D. Micu, **L. Czumbil** & E. Simion: „Numerical Evaluation of Self and Mutual Earth Return Impedances”, *Carpathian Journal of Electrical Engineering (CJEE)*, ISSN: 1843-7583, vol. 8, no. 1, pp. 13-25, **2014**. (**EBSCO, DOAJ**)

[D5] M. Lingvay, & **L. Czumbil**: „Reactor Experimental pentru Studiul Proceselor Biochimice sub Acţiunea Câmpurilor Electrice”, *EEA - Electrotehnica, Electronica, Automatica, (EEA Jurnal)*, ISSN: 1582-5175, Vol. 62, No. 3, pp. 84 – 89, July, **2014**. (**Scopus**)

[D6] A. Paşca, D.D. Micu & **L. Czumbil**: „Prediction of Operating Characteristics of Electrotechnical Devices using Artificial Neural Networks”, *Journal of Electrical & Electronics Engineering*, ISSN: 1844-6035, Vol. 7, No. 1, pp. 131 - 136, May, **2014**. (**Scopus, EBSCO**)

[D7] **L. Czumbil**, D. Şteţ, D.D. Micu, V. Ţopa & L. Ancăş: „Induced Voltage and Current Computation for Different HVPL Operating Conditions”, *International Symposium on Electromagnetic Compatibility, (EMC Europe)*, ISBN: 978-1-4673-0718-5, Rome, Italy, September 17-21, **2012**. Doi: [10.1109/EMCEurope.2012.6396842](https://doi.org/10.1109/EMCEurope.2012.6396842), (**IEEEExplore, Scopus**)

[D8] D.D. Micu, L. Czumbil, M. Prsa & K. Kasas-Lazetic: „InterfStud Electromagnetic Interference Software - An Accurate Evaluation of Current Distribution in Soil and in Underground Pipelines”, *International Symposium on Electromagnetic Compatibility, (EMC Europe)*, ISBN: 978-1-4673-0718-5, Rome, Italy, September 17-21, 2012. Doi: [10.1109/EMCEurope.2012.6396894](https://doi.org/10.1109/EMCEurope.2012.6396894), (IEEEExplore, Scopus)

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