

SCIENTIFIC PUBLICATIONS

PhD Thesis

Czumbil L.: „Dezvoltarea unui Pachet Software Bazat pe Tehnici Moderne de Analiză a Fenomenelor de Interferență Electromagnetică dintre Liniile Electrice Aeriene și Conductele Metalice Încevinate” (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] Micu D.D., Christoforidis G.C. & **Czumbil L.:** „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)

[A2] Micu D.D., Ceclan A., **Czumbil L.** & Csala D.: *Numerical Methods*, Ed. Mediamira, ISBN: 978-973-713-278-9, Cluj-Napoca, România, **2010**.

B. Papers published in ISI Journals

[B1] Micu D.D., Christoforidis G.C. & **Czumbil L.:** „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), **IF₂₀₁₂ = 1.694**

[B2] Ceclan A., Țopa V., Micu D.D., **Czumbil L.**, Șimon A. & Creț O.: „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), **IF₂₀₁₂ = 0.384** (conf. art.)

[B3] Micu D.D., **Czumbil L.**, Christoforidis G.C., Ceclan A. & Șteț D.: „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), **IF_2012 = 0.281**

[B4] Șteț D., Micu D.D., **Czumbil L.**, Dărăbant L., & Ceclan A.: „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*, 0332-1649, Vol. 31, No. 4, pp.1718-1189., **2012**. Doi: [10.1108/03321641211227447](https://doi.org/10.1108/03321641211227447), **IF_2012 = 0.281**

[B5] Micu D.D., **Czumbil L.**, Christoforidis G.C. & Simion E.: „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**. **IF_2012 = 0.337**

[B6] Micu D.D., **Czumbil L.**, Christoforidis G.C. & Ceclan A.: „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), **IF_2012 = 1.422**

C. Articles in ISI Proceedings ([link](#))

[C1] Șteț D., Micu D.D., **Czumbil L.** & Manea B.: „Case Studies on Electromagnetic Interference between HVPL and Buried Pipelines”, *International Conference and Exposition on Electrical and Power Engineering, (EPE)*, pp. 231 - 236, Iași, Romania, October 16-18, **2014**. Doi: [10.1109/ICEPE.2014.6969903](https://doi.org/10.1109/ICEPE.2014.6969903)

[C2] Ceclan A., Holhos A., Micu D.D., Spinean S., **Czumbil L.** & Andreotti A.: „Lightning Return Stroke Current Reconstruction for Vertical and Variable Channel Shape”, *International Conference on Lightning Protection, (ICLP)*, pp. 1370 – 1375, Shanghai, China, October 11-18, **2014**. Doi: [10.1109/ICLP.2014.6973344](https://doi.org/10.1109/ICLP.2014.6973344), (**IEEEExplore**)

[C3] **Czumbil L.**, Micu D.D., Șteț D., Christoforidis G.C. & Ancăș L.: „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 2-5, **2013**. Doi: [10.1109/UPEC.2013.6714945](https://doi.org/10.1109/UPEC.2013.6714945)

[C4] Christoforidis G.C., Micu D.D., Papadopoulos T.A., **Czumbil L.** & Parisses C.C.: „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 2-5, **2013**. Doi: [10.1109/UPEC.2013.6715002](https://doi.org/10.1109/UPEC.2013.6715002)

[C5] **Czumbil L.**, Micu D.D. & Hathazi F.I.: „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)

[C6] Şteţ D., **Czumbil L.** & Ancăş L.: „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)

[C7] Şteţ D., **Czumbil L.**, Micu D.D. & Miron O.: „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)

[C8] Micu D.D., **Czumbil L.**, Ceclan A., Dărăbant L., Şteţ D. & Christoforidis G.C.: „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)

[C9] **Czumbil L.**, Micu D.D. & Ceclan A.: „Artificial Intelligence Techniques Applied to Electromagnetic Interference Problems”, *International Conference on Advancements of Medicine and Health Care Through Technology, (MediTech), IFMBE Proceedings*, ISSN: 1680-0737, Vol. 26, pp.339-344., September 23-26, **2009**. Doi: [10.1007/978-3-642-04292-8_75](https://doi.org/10.1007/978-3-642-04292-8_75)

[C10] Micu D.D., **Czumbil L.**, Ceclan A. & Dărăbant L.: „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 1-4, **2009**.

[C11] Ceclan A., Bărbulescu Ct., Micu D.D., Micu D.O. & **Czumbil L.**: „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, (HIS)*, 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)

[C12] Ceclan A., Bărbulescu Ct., Micu D.D., Micu D.O. & **Czumbil L.**: „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)

[C13] Szász Cs. & **Czumbil L.**: „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)

D. Papers indexed in International Data Bases

[D1] **Czumbil L.**, Micu D.D., Munteanu C. & Şteţ D.: „Optimization of Pipeline-Overhead Line Right-of-Way using Genetic Algorithms”, *9th International Symposium on Advanced Topics in Electrical Engineering (ATEE)*, pp. 531-534, Bucharest, Romania, May 7-9, **2015** Doi: [10.1109/ATEE.2015.7133865](https://doi.org/10.1109/ATEE.2015.7133865), (IEEEExplore)

[D2] Şteţ D., Micu D.D. **Czumbil L.** & Simion E.: „Numerical Evaluation of Self and Mutual Earth Return Impedances”, *Carpathian Journal of Electrical Engineering*, ISSN: 1843-7583, vol. 8, no. 1, pp. 13-25, **2014**. (EBSCO)

[D3] **Czumbil L.**, Şteţ D., Micu D.D., Braicu S., Manea B. & Spinean S.: „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 2-5, **2014**. Doi: [10.1109/UPEC.2014.6934633](https://doi.org/10.1109/UPEC.2014.6934633), (IEEEExplore)

[D4] Şteţ D., Micu D.O., Ceclan A., **Czumbil L.**, Munteanu M., Creţu M. & Nicu A.: „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 2-5, **2014**. Doi: [10.1109/UPEC.2014.6934634](https://doi.org/10.1109/UPEC.2014.6934634), (IEEEExplore)

[D5] Papadopoulos T.A., Christoforidis G.C., Micu D.D. & **Czumbil L.**: „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 2-5, **2014**. Doi: [10.1109/UPEC.2014.6934713](https://doi.org/10.1109/UPEC.2014.6934713), (IEEEExplore)

[D6] Vezér K., Ceclan A. & **Czumbil L.**: „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 2-5, **2014**. Doi: [10.1109/UPEC.2014.6934632](https://doi.org/10.1109/UPEC.2014.6934632), (IEEEExplore)

[D7] Lingvay, M. & **Czumbil L.**: „Reactor Experimental pentru Studiul Proceselor Biochimice sub Acţiunea Câmpurilor Electrice”, *Electrotehnică, Electronică, Automatică, (EEA Jurnal)*, ISSN: 1582-5175, Vol. 62, No. 3, pp. 84 – 89, July, **2014**. (Scopus)

[D8] Pașca A., Micu D.D. & **Czumbil L.**: „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, EBSCOhost)

[D9] **Czumbil L.**, Șteț D., Micu D.D., Țopa V. & Ancăș L.: „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)

[D10] Micu D.D., **Czumbil L.**, Prsa M. & Kasas-Lazetic K.: „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)

[D11] Șteț D., **Czumbil L.**, Micu D.D., Țopa V. & Ancăș L.: „Stream Gas Pipeline in Proximity of High Voltage Power Lines. Part I - Soil Resistivity Evaluation”, *47th International Universities' Power Engineering Conference, (UPEC)*, ISBN: 978-1-4673-2854-8, London, UK, September 4-7, **2012**. Doi: [10.1109/UPEC.2012.6398445](https://doi.org/10.1109/UPEC.2012.6398445), (IEEEExplore, Scopus)

[D12] **Czumbil L.**, Șteț D., Micu D.D., Țopa V. & Ancăș L.: „Stream Gas Pipeline in Proximity of High Voltage Power Lines. Part II - Induced Voltage Evaluation”, *47th International Universities' Conference on Power Energy, (UPEC)*, ISBN: 978-1-4673-2854-8, London, UK, September 4-7, **2012**. Doi: [10.1109/UPEC.2012.6398444](https://doi.org/10.1109/UPEC.2012.6398444), (IEEEExplore, Scopus)

[D13] Micu D.D., **Czumbil L.** & Christoforidis G.C.: „Semi-infinite Integral Implementation in the Development Steps of *InterfStud* Electromagnetic Interference Software”, *47th International Universities' Power Engineering Conference, (UPEC)*, London, September 4-7, **2012**. Doi: [10.1109/UPEC.2012.6398640](https://doi.org/10.1109/UPEC.2012.6398640) (IEEEExplore, Scopus)

[D14] Miron O., Micu D.D. & **Czumbil L.**: „Stability Study Comparison of a MNA Matrix system in PEEC method”, *47th International Universities' Power Engineering Conference, (UPEC)*, London, September 4-7, **2012**. Doi: [10.1109/UPEC.2012.6398682](https://doi.org/10.1109/UPEC.2012.6398682) (IEEEExplore, Scopus)

[D15] **Czumbil L.**, Christoforidis G.C., Micu D.D., Șteț D., Ceclan A. & Pop O.: „A User-Friendly Software Application for Induced A.C. Interference Evaluation”, *46th International Universities' Power Engineering Conference, (UPEC)*, ISBN: 978-3-8007-3402-3, Soest, Germany, September 5-8, **2011**. (IEEEExplore)

[D16] Ceclan A., Țopa V., Micu D.D., Miron O. & **Czumbil L.**: „Numerical Tools for Lightning Return Stroke Current Reconstruction by Electromagnetic Inverse Problem Formulation”, *International Conference on Clean Electrical Power, (ICCEP)*, ISBN: 978-1-4244-8929-9, pp. 239-298, Ischia, Italy, June 11-13, **2011**. Doi: [10.1109/ICCEP.2011.6036299](https://doi.org/10.1109/ICCEP.2011.6036299) (IEEEExplore)

[D17] **Czumbil L.**, Micu D.D., Christoforidis G.C., Ceclan A. & Miron A.: „User Friendly EMI Software for Induced A.C. Potential Evaluation”, *8th International Conference on Computation in Electromagnetics, (CEM)*, Wroclaw, Poland, April 11-14, **2011**. Doi: [10.1049/cp.2011.0055](https://doi.org/10.1049/cp.2011.0055). (IEEEExplore)

[D18] Ceclan A., Țopa V., Micu D.D. & **Czumbil L.**: „On an Inverse Electromagnetic Procedure for Frequency and Spatial Reconstruction of the Lightning Return Stroke Current”, *The 8th International Conference on Computation in Electromagnetics, (CEM)*, Wroclaw, Poland, April 11-14, **2011**. Doi: [10.1049/cp.2011.0054](https://doi.org/10.1049/cp.2011.0054) (IEEEExplore)

[D19] Miron O., Desideri D., Micu D.D., Maschio A., Ceclan A. & **Czumbil L.**: „Estimation of an Equivalent Short Solenoid Model using Different Numerical Methods”, *The 8th International Conference on Computation in Electromagnetics, (CEM)*, Wroclaw, Poland, April 11-14, **2011**. Doi: [10.1049/cp.2011.0025](https://doi.org/10.1049/cp.2011.0025) (IEEEExplore)

[D20] **Czumbil L.**, Micu D.D., Ceclan A., Șteț D. & Micu D.O.: „Fuzzy Logic - Genetic Algorithm Method to Evaluate the Magnetic Vector Potential”, *12th WSEAS International Conference on Mathematical Methods and Computational Techniques in Electrical Engineering, (MMACTEE)*, pp. 128-133, Timișoara, Romania, October 21-23, **2010**. (Scopus)

[D21] Micu D.D, **Czumbil L.**, Polycarpou A., Ceclan A. & Cîmpan L.: „Analysis of Electromagnetic Interference Problems Proposed to be through an Innovative Monte Carlo – Neural Network Method”, *7th Mediterranean Conference and Exhibition on Power Generation, Transmission, Distribution and Energy Conversion, (MedPower)*, ISBN: 978-184919319-1, Agia Napa, Cyprus, November 7-10, **2010**. Doi: [10.1049/cp.2010.0939](https://doi.org/10.1049/cp.2010.0939) (IEEEExplore)

[D22] Micu D.D., **Czumbil L.**, Christoforidis G.C. & Ceclan A.: „Proposed Monte Carlo – Neural Network method for solving Electromagnetic Interference problems”, *45th International Universities' Power Engineering Conference, (UPEC)*, ISBN: 978-1-4244-7667-1, Cardiff, Wales, August 31 – September 3, **2010**. (IEEEExplore)

[D23] Ceclan A., Micu D.D. & **Czumbil L.**: „Lightning Return Stroke Current Spatial Reconstruction via Inverse Regularization”, *45th International Universities' Power Engineering Conference, (UPEC)*, ISBN: 978-1-4244-7667-1, Cardiff, Wales, August 31 – September 3, **2010**. (IEEEExplore)

[D24] Ceclan A., Micu D.D. & **Czumbil L.**: „On a Return Stroke Lightning identification procedure by Inverse Formulation and Regularization”, *14th Biennial IEEE Conference on Electromagnetic Field Computation, (CEFC)*, ISBN: 978-1-4244-7059-4, Chicago, USA, May 9-12, **2010**. Doi: [10.1109/CEFC.2010.5481473](https://doi.org/10.1109/CEFC.2010.5481473) (IEEEExplore)

[D25] Micu D.D, **Czumbil L.**, Ceclan A., Simion E., Șteț D. & Cîmpan L.: „Neural Network Evaluation of Electromagnetic Interference between HV Power Lines and underground Metallic

Pipelines”, *Journal of Electrical and Electronics Engineering*, ISSN: 1844-6035, Vol. 2, No. 1, pp. 73-78, **2009**. (Scopus, EBSCOhost)

[D26] Micu D.D., **Czumbil L.**, Ceclan A., Ardelean S. & Simion E: „Software for Industrial Consumers Electrical Energy Tariff optimal Selection”, *Journal of Electrical and Electronics Engineering*, ISSN: 1844-6035, Vol. 1, No. 1, pp. 90-94, **2008**. (Scopus)

E. Papers published in Romanian B+ Journals

[E1] **Czumbil L.**, Micu D.D., Şteţ D. & Ceclan A.: „Investigation into Tower Model Effect of Fast-Front Overvoltages in Transmission Lines”, *Acta Electrotehnica*, ISSN: 1841-3323, Vol. 56, No. 1-2, pp. 9-14, **2014**.

[E2] **Czumbil L.**, Ceclan A., Micu D.D., Şteţ D., Erchedi M., Hanc S., Martineac C., Radu I., & Demean, A.: „On Some Mitigation Solutions for an Electromagnetic Interference Problem Analysis in Underground Cables”, *Acta Electrotehnica*, ISSN: 1841-3323, Vol. 54, No. 5, Special Issue: *Proceedings of the 5th International Conference on Modern Power Systems (MPS)*, pp. 120-125, Cluj-Napoca, Romania, May 28-31, **2013**.

[E3] Şteţ D., **Czumbil L.**, Erchedi M., Hanc S. & Ancăş L.: „Electromagnetic Interference Issues in Case of Metallic Structures”, *Acta Electrotehnica*, ISSN: 1841-3323, Vol. 54, No. 5, Special Issue: *Proceedings of the 5th International Conference on Modern Power Systems (MPS)*, pp. 470-473, Cluj-Napoca, Romania, May 28-31, **2013**.

[E4] Micu D.D., **Czumbil L.**, Christoforidis G.C. & Şteţ D.: „Software Application to Evaluate Inductive and Capacitive Couplings”, *Buletinul AGIR*, ISSN: 2247-3548, Vol. XVII, No. 3, Special Issue: *World Energy Systems. Towards Sustainable and Integrated Energy Systems*, pp. 117-122., Suceava, Romania, June 28-30, **2012**.

[E5] Şteţ D., Micu D.D., **Czumbil L.** & Ancăş L.: „Effects of Power Line Conditions on Nearby Gas Pipelines”, *Buletinul AGIR*, ISSN: 2247-3548, Vol. XVII, No. 3, Special Issue: *World Energy Systems. Towards Sustainable and Integrated Energy Systems*, pp. 731-736., Suceava, Romania, June 28-30, **2012**.

[E6] Ceclan A., Ţopa V., Micu D.D. & **Czumbil L.**: „Impact Evaluation of Direct Lightning Strike on a Tower”, *Buletinul AGIR*, ISSN: 2247-3548, Vol. XVII, No. 3, Special Issue: *World Energy Systems. Towards Sustainable and Integrated Energy Systems*, pp. 527-532., Suceava, Romania, June 28-30, **2012**.

[E7] **Czumbil L.**, Micu D.D., Christoforidis G.C., Ceclan A. & Şteţ D.: „Hybrid Method for Induced AC Voltages Determination”, *Acta Electrotehnica*, ISSN: 1841-3323, Vol. 52, No. 5,

Special Issue: *Proceedings of the 5th International Conference on Modern Power Systems, (MPS)*, pp. 116-120, Cluj-Napoca, Romania, May 17-20, **2011**.

[E8] Ceclan A., Micu D.O., **Czumbil L.**, Micu D.D. & Simion E.: „Numerical Monte Carlo Formulation of an Electromagnetic Interference Problem”, *Acta Electrotehnica*, ISSN: 1841-3323, Special Issue: *Proceedings of the 2nd International Conference on Modern Power Systems, (MPS)*, pp. 273-277, Cluj-Napoca, Romania, November 12-14, **2008**.

[E9] Ceclan A., Micu D.D., Simion E., **Czumbil L.**, Mutu A. & Boca C.: „On an Energy Efficiency Strategy for Romanian Water Companies”, *Acta Electrotehnica*, ISSN: 1841-3323, Special Issue: *Proceedings of the 2nd International Conference on Modern Power Systems, (MPS)*, pp. 273-277, Cluj-Napoca, Romania, November 12-14, **2008**.

[E10] Ceclan A., Micu D.D., **Czumbil L.**, Micu D.O. & Simion E.: „On A Monte Carlo Approach Of Interference Problems”, *Buletinul Institutului Politehnic din Iasi Sectia: Electrotehnica, Energetica, Electronica*, ISSN: 1223-8139, Vol. LIV, No. 5, pp. 251-257, **2008**.

[E11] Szombatfalvi-Torok F., Simion E., Ceclan A., Micu D.D. & **Czumbil L.**: „On Some Measurements of Energy Quality in The National Electrical Power Grid - Part I”, *Buletinul Institutului Politehnic din Iasi Sectia: Electrotehnica, Energetica, Electronica*, ISSN: 1223-8139, Vol. LIV, No. 5, pp. pp. 193-199, **2008**.

[E12] Szombatfalvi-Torok F., Simion E., Ceclan A., Micu D.D., Şteţ D. & **Czumbil L.**: „On Some Measurements of Energy Quality in The National Electrical Power Grid - Part II”, *Buletinul Institutului Politehnic din Iasi Sectia: Electrotehnica, Energetica, Electronica*, ISSN: 1223-8139, Vol. LIV, No. 5, pp. pp. 199-205, **2008**.

F. Papers presented at International Conferences

[F1] **Czumbil L.**, Kim J. & Nouri H.: „Investigation into Transient SFO, FFO, VFTO Overvoltage Characteristics for Typical Gas Insulated Substations”, *International Conference on Power Systems Transient (IPST)*, Cavtat, Croatia, June 15-18, **2015**.

[F2] Micu D.D., **Czumbil L.**, Braicu Ş., & Hanc S.: „Electromagnetic Field Distribution Around High Voltage Power Lines”, *17th International Symposium Power Electronics (Ee2013)*, Novi Sad, Serbia, October 30 – November 1, **2013**.

[F3] Micu D.D., Christoforidis G.C., Papadopoulos T.A., **Czumbil L.** & Şteţ D.: „Accurate Iterative Algorithm to Evaluate Induced Current Densities and Earth Impedances of Overhead and Buried Conductors in Electromagnetic Interference Problems”, *15th Biennial IEEE Conference on Electromagnetic Field Computation, (CEFC)*, Oita, Japan, November 11-14, **2012**.

[F4] Şteţ D., **Czumbil L.**, Micu D.D. & Ancăş L.: „Investigation of Electromagnetic Interferences on Metallic Pipelines - Induced Voltage Evaluation and Mitigation Techniques”, *15th Biennial IEEE Conference on Electromagnetic Field Computation, (CEFC)*, Oita, Japan, November 11-14, **2012**.

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