

LIST OF PUBLICATIONS

ISI Web of Science ID: **O-8898-2016** *h-index*: 5
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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] **L. Czumbil**, D.D. Micu & A. Ceclan: „Advanced Numerical Methods Based on Artificial Intelligence” in *Numerical Methods for Energy Applications*, Ed. Springer, ISBN: 978-3-030-62190-2, Ch. 4, pp. 93-120, **2021**. Doi: [10.1007/978-3-030-62191-9](https://doi.org/10.1007/978-3-030-62191-9)

[A2] A. Ceclan, D.D. Micu **L. Czumbil**, H. Andrei, M. Găiceanu, M. Stănculescu & P.C. Andrei: „Ill-Posed Inverse Problems in Electrical Engineering Applications” in *Numerical Methods for Energy Applications*, Ed. Springer, ISBN: 978-3-030-62190-2, Ch. 9, pp. 235-258 **2021**. Doi: [10.1007/978-3-030-62191-9](https://doi.org/10.1007/978-3-030-62191-9)

[A3] 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. Complemente de Matematici*, Ed. Mediamira, ISBN: 978-973-713-336-6, pag. 320 Cluj-Napoca, Romania, **2016**.

[A4] 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**.

[A5] 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)

[A6] 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] D.I. Jurj, **L. Czumbil**, B. Bargauan, A. Ceclan, A. Polycarpou & D.D. Micu: „Custom Outlier Detection for Electrical Energy Consumption Data Applied in Case of Demand Response in Block of Buildings”, *Sensors*, ISSN: 1424-8220, vol. 21, no. 9, art. no. 2946, May, **2021**. Doi: [10.3390/s21092946](https://doi.org/10.3390/s21092946), WOS: 000650782200001

[B2] A. Mureşan, **L. Czumbil**, R. Andolfato, H. Nouri & D.D. Micu: „Investigating the Effect of Several Model Configurations on the Transient Response of Gas-Insulated Substation during Fault Events Using an Electromagnetic Field Theory Approach”, *Energies*, ISSN: 1996-1073, vol. 13, no. 23, art. no. 6231, December, **2020**. Doi: [10.3390/en13236231](https://doi.org/10.3390/en13236231), WOS: 000597089900001

[B3] M. Creţu, **L. Czumbil**, B. Bârgăuan, A. Ceclan, A. Berciu, A. Polycarpou, R. Rizzo & D.D. Micu: „Modelling and Evaluation of the Baseline Energy Consumption and the Key Performance Indicators in Technical University of Cluj-Napoca Buildings within a Demand Response Programme: A Case Study”, *IET Renewable Power Generation*, ISSN: 1752-1416, vol. 14, no. 15, pp. 2864-2875, **2020**. Doi: [10.1049/iet-rpg.2020.0096](https://doi.org/10.1049/iet-rpg.2020.0096), WOS: 000599951400010

[B4] M. Ruba, F. Jurca, **L. Czumbil**, D.D. Micu, C. Martiş, 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

[B5] M.S. Munteanu, **L. Czumbil**, D.D. Micu, Ş.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

[B6] 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

[B7] 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 (conf. art.)

[B8] 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

[B9] 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

[B10] 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

[B11] 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

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

[C1] **M. Crețu**, L. Darabant, L. Czumbil, A. Ceclan, D. Șteț & D.D. Micu: „Demonstration Scenarios for Renewable Energy Technologies Integration in Different Pilots’ Sites within the RE-COGNITION Project”, *12th International Symposium on Advanced Topics in Electrical Engineering (ATEE)*, ISBN: 978-1-6654-1878-2, Bucharest, Romania, March 25-27, **2021**. DOI: [10.1109/ATEE52255.2021.9425338](https://doi.org/10.1109/ATEE52255.2021.9425338) WOS:000676164800164

[C2] D. Jurj, D.D. Micu, L. Czumbil, A.G. Berciu, M. Lancrajan & D.M. Bărar: „Analysis of Data Cleaning Techniques for Electrical Energy Consumption of a Public Building”, *55th International Universities Power Engineering Conference (UPEC)*, ISBN: 978-1-7281-1078-3,

Torino, Italy, September 1-4, **2020**. DOI: [10.1109/UPEC49904.2020.9209781](https://doi.org/10.1109/UPEC49904.2020.9209781) WOS: 000627771000024

[C3] D. Şteţ, **L. Czumbil**, D.D. Micu, A. Polycarpou, A. Ceclan & M. Creţu: „Power Factor Correction using EMTP-RV for Engineering Education”, *54th International Universities Power Engineering Conference (UPEC)*, ISBN: 978-1-7281-3349-2, Bucharest, Romania, September 3-6, **2019**. DOI: [10.1109/UPEC.2019.8893477](https://doi.org/10.1109/UPEC.2019.8893477) WOS: 000619338200021

[C4] 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)*, ISBN: 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) WOS: 000612401900115

[C5] 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)*, ISBN: 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) WOS:000612401900138

[C6] 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

[C7] 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, Iaşi, Romania, October 18-19, **2018**. Doi: [10.1109/ICEPE.2018.8559900](https://doi.org/10.1109/ICEPE.2018.8559900) WOS: 000458752200164

[C8] **L. Czumbil**, D. Şteţ, A. Ceclan, L. Dărăbant, M. Creţu & 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

[C9] B. Bârgăuan, M. Creţu, O. Fati, A. Ceclan, L. Dărăbant, D.D. Micu, D. Şteţ & 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

[C10] B. Bârgăuan, O. Fati, A. Ceclan, D.D. Micu, D. Şteţ, **L. Czumbil** & P. Mureşan: „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

[C11] D. Şteţ, **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

[C12] A. Ceclan, D.D. Micu, D. Şteţ, **L. Czumbil**, P. Mureşan, 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

[C13] Ş.F. Braicu, **L. Czumbil**, D.D. Micu, D. Şteţ, 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

[C14] **L. Czumbil**, Ş.F. Braicu, D.D. Micu, D. Şteţ & 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

[C15] Ş.F. Braicu, **L. Czumbil**, D. Şteţ & 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

[C16] D.D. Micu, B. Bârgăuan, A. Ceclan, D. Şteţ, **L. Czumbil**, A. Căţinean & 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, Iaşi, Romania, October 20-22, **2016**. Doi: [10.1109/ICEPE.2016.7781445](https://doi.org/10.1109/ICEPE.2016.7781445) WOS: 000390706300155

[C17] D.D. Micu, Ş.F. Braicu, **L. Czumbil** & D. Şteţ: „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

[C18] **L. Czumbil**, D.D. Micu, D. Şteţ & 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

[C19] **L. Czumbil**, D.D. Micu, C. Munteanu, D. Şteţ & B. Tomoioagă: „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

[C20] 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

[C21] **L. Czumbil**, D.D. Micu, C. Munteanu & D. Şteţ: „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

[C22] 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

[C23] 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

[C24] **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

[C25] 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

[C26] T.A. Papadopoulos, G.C. Christoforidis, D.D. Micu & **L. Czumbil**: „Medium-Voltage Cable Inductive Coupling to Metallic pipelines: A Comprehensive 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

[C27] 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

[C28] **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

[C29] 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

[C30] **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

[C31] 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

[C32] 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

[C33] 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

[C34] **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 Medicne and Health Care*

Thought 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

[C35] 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

[C36] 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

[C37] 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

[C38] 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] **C.M. Mureşan**, D. Şteţ, Ş. Cîrstea & L. Czumbil: „Integrated Approach in Designing Photovoltaic Power Plant”, *9th International Conference on Modern Power Systems (MPS)*, ISBN: 978-1-6654-3382-2, Cluj-Napoca, Romania, June 16-17, **2021**. DOI: [10.1109/MPS52805.2021.9492703](https://doi.org/10.1109/MPS52805.2021.9492703) (IEEEXplore) (Posibil WOS)

[D2] **C.M. Mureşan**, P. Mureşan, D.D. Micu, A. Ceclan, L. Czumbil & O.S. Mintaşan: „Optimization of Electricity Power Losses using Smart Metering Systems in Romania”, *9th International Conference on Modern Power Systems (MPS)*, ISBN: 978-1-6654-3382-2, Cluj-Napoca, Romania, June 16-17, **2021**. DOI: [10.1109/MPS52805.2021.9492712](https://doi.org/10.1109/MPS52805.2021.9492712) (IEEEXplore) (Posibil WOS)

[D3] **T. Farkas, L. Czumbil**, M. Crețu, L. Dărăbant, D. Șteț, A. Ceclan, A. Polycarpou & D.D. Micu: „Assessment of the Romanian Pilot Site Energy Consumption Indicators and Technical Prerequisites in the Implementation of the RE-COGNITION Horizon Project”, *9th International Conference on Modern Power Systems (MPS)*, ISBN: 978-1-6654-3382-2, Cluj-Napoca, Romania, June 16-17, **2021**. DOI: [10.1109/MPS52805.2021.9492686](https://doi.org/10.1109/MPS52805.2021.9492686) (**IEEEExplore**) (**Posibil WOS**)

[D4] **A.G. Berciu**, D. Jurj, **L. Czumbil**, D.D. Micu & E.H. Dulf: „Energy Pulse – the Efficient Solution for Monitoring Electricity Consumption from Decentralized Data Sets”, *9th International Conference on Modern Power Systems (MPS)*, ISBN: 978-1-6654-3382-2, Cluj-Napoca, Romania, June 16-17, **2021**. DOI: [10.1109/MPS52805.2021.9492626](https://doi.org/10.1109/MPS52805.2021.9492626) (**IEEEExplore**) (**Posibil WOS**)

[D5] **A. Mureșan**, T.A. Papadopoulos, **L. Czumbil**, A.I. Chrysochos, T. Farkas & D. Chioran: „Numerical Modeling Assessment of Electromagnetic Interference Between Power Lines and Metallic Pipelines: A Case Study”, *9th International Conference on Modern Power Systems (MPS)*, ISBN: 978-1-6654-3382-2, Cluj-Napoca, Romania, June 16-17, **2021**. DOI: [10.1109/MPS52805.2021.9492630](https://doi.org/10.1109/MPS52805.2021.9492630) (**IEEEExplore**) (**Posibil WOS**)

[D6] **A. Mureșan, L. Czumbil**, D.D. Micu & T. Papadopoulos: „Analysis of Electromagnetic Interferences between AC High Voltage Power Lines and Metallic Pipeline Using Two Different Approaches Based on Circuit Theory and Electromagnetic Field Theory”, *11th International Conference and Exposition on Electrical and Power Engineering (EPE)*, ISBN: 978-1-7281-8126-4, Iasi, Romania, October 22-23, **2020**. DOI: [10.1109/EPE50722.2020.9305583](https://doi.org/10.1109/EPE50722.2020.9305583) (**IEEEExplore**) (**Posibil WOS**)

[D7] M. Crețu, **L. Czumbil**, B. Bârgăuan, D. Șteț, A. Ceclan, A. Polycarpou, R. Rizzo & D.D. Micu: „Modeling and Forecasting Energy Demand in TUCN Buildings”, *International Conference on Clean Electrical Power (ICCEP)*, ISBN: 978-1-7281-1356-2, Otranto, Italy, July 2-4, **2019**. DOI: [10.1109/ICCEP.2019.8890113](https://doi.org/10.1109/ICCEP.2019.8890113) (**IEEEExplore**)

[D8] A.M. Măgurean, **L. Czumbil** & D.D. Micu: „Artificial Intelligence based Method for the Long-Term Heat Losses Calculation Applied to Large Slabs on Ground”, *International Conference on Clean Electrical Power (ICCEP)*, ISBN: 978-1-7281-1356-2, Otranto, Italy, July 2-4, **2019**. DOI: [10.1109/ICCEP.2019.8890116](https://doi.org/10.1109/ICCEP.2019.8890116) (**IEEEExplore**)

[D9] **L. Czumbil**, D.D. Micu, D. Șteț & 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**. (**Scopus**)

[D10] D. Șteț, 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**. (**Scopus**)

[D11] M. Lingvay, & L. Czumbil: „Reactor Experimental pentru Studiul Proceselor Biochimice sub Acțiunea Câmpurilor Electrice”, *EEA - Electrotehnica, Electronica, Automatica, (EEA Jurnal)*, ISSN: 1582-5175, Vol. 62, No. 3, pp. 84 – 89, July, **2014**. (Scopus)

[D12] A. Pașca, 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)

[D13] L. Czumbil, D. Șteț, D.D. Micu, V. Țopa & L. Ancăș: „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)

[D14] 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)

[D15] D. Șteț, L. Czumbil, D.D. Micu, V. Țopa & L. Ancăș: „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 04-07, **2012**. Doi: [10.1109/UPEC.2012.6398445](https://doi.org/10.1109/UPEC.2012.6398445), (IEEEExplore, Scopus)

[D16] L. Czumbil, D. Șteț, D.D. Micu, V. Țopa & L. Ancăș: „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 04-07, **2012**. Doi: [10.1109/UPEC.2012.6398444](https://doi.org/10.1109/UPEC.2012.6398444), (IEEEExplore, Scopus)

[D17] D.D. Micu, L. Czumbil, G.C. Christoforidis & T.A. Papadopoulos: „Semi-infinite Integral Implementation in the Development Steps of InterfStud Electromagnetic Interference Software”, *47th International Universities' Power Engineering Conference, (UPEC)*, London, September 04-07, **2012**. Doi: [10.1109/UPEC.2012.6398640](https://doi.org/10.1109/UPEC.2012.6398640) (IEEEExplore, Scopus)

[D18] O. Miron, D.D. Micu & L. Czumbil: „Stability Study Comparison of a MNA Matrix system in PEEC method”, *47th International Universities' Power Engineering Conference, (UPEC)*, London, September 04-07, **2012**. Doi: [10.1109/UPEC.2012.6398682](https://doi.org/10.1109/UPEC.2012.6398682) (IEEEExplore, Scopus)

[D19] L. Czumbil, G.C. Christoforidis, D.D. Micu, D. Șteț, A. Ceclan & O. Pop: „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 05-08, **2011**. (IEEEExplore)

[D20] A. Ceclan, V. Țopa, D.D. Micu, O. Miron & L. Czumbil: „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**)

[D21] **L. Czumbil**, D.D. Micu, G.C. Christoforidis, A. Ceclan & O. Miron: „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**)

[D22] A. Ceclan, V. Țopa, D.D. Micu & **L. Czumbil**: „On an Inverse Electromagnetic Procedure for Frequency and Spatial Reconstruction of the Lightning Return Stroke Current”, *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**)

[D23] O. Miron, D. Desideri, D.D. Micu, A. Maschio, A. Ceclan & **L. Czumbil**: „Estimation of an Equivalent Short Solenoid Model using Different Numerical Methods”, *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**,)

[D24] **L. Czumbil**, D.D. Micu, A. Ceclan, D. Șteț & D.O. Micu: „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**)

[D25] D.D. Micu, **L. Czumbil**, A. Polycarpou, A. Ceclan & L. Cîmpan: „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 07-10, **2010**. Doi: [10.1049/cp.2010.0939](https://doi.org/10.1049/cp.2010.0939) (**IEEEExplore**, **Scopus**)

[D26] D.D. Micu, **L. Czumbil**, G.C. Christoforidis & A. Ceclan: „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 03, **2010**. (**IEEEExplore**, **Scopus**)

[D27] A. Ceclan, D.D. Micu & **L. Czumbil**: „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 03, **2010**. (**IEEEExplore**, **Scopus**)

[D28] D.D. Micu. **L. Czumbil**, A. Ceclan, A. Mutu & D. Șteț: „Layer Recurrent Neural Network Solution for an Electromagnetic Interference Problem”, *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.2010.5481648](https://doi.org/10.1109/CEFC.2010.5481648) (**IEEEExplore**, **Scopus**)

[D29] A. Ceclan, D.D. Micu & **L. Czumbil**: „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, Scopus**)

[D30] D.D. Micu, **L. Czumbil**, A. Ceclan, E. Simion, D. Şteţ & L. Cîmpan: „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, EBSCO, DOAJ**)

[D31] D.D. Micu, **L. Czumbil**, A. Ceclan, S. Ardelean & E. Simion: „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 (3 as first author)

[E1] M.S. Munteanu, **L. Czumbil**, R. Munteanu Jr. & S. Nemeti: „Investigation of a Segment of Via Praetoria from Potaissa Camp by Measuring the Soil Electrical Resistivity”, *Acta Electrotehnica*, ISSN: 1841-3323, vol. 61, no. 3, pp. 233-236, **2020**, presented at *2nd National Symposium on Archaeometry*, Cluj-Napoca, Romania, December 17, 2019.

[E2] **L. Czumbil**, M.S. Munteanu, D.D. Micu, R. Munteanu Jr. & S. Nemeti: „Soil Resistivity Measurements and Investigation to Determine Underground Ancient Roman Road Right-of-Way”, *Acta Electrotehnica*, ISSN: 1841-3323, vol. 61, no. 3, pp. 237-241, **2020**, presented at *2nd National Symposium on Archaeometry*, Cluj-Napoca, Romania, December 17, 2019.

[E3] M.S. Munteanu, **L. Czumbil**, M. Pîslaru & S. Nemeti: „Electrical Method for Detecting Buried Walls in Historical Sites. Case Study: the Potaissa Legionary Camp”, *Acta Electrotehnica*, ISSN: 1841-3323, vol. 59, no. 3, pp. 233-238, **2018**, presented at *1st National Symposium on Archaeometry*, Cluj-Napoca, Romania, December 13, 2017.

[E4] D. Şteţ, **L. Czumbil** & D.D. Micu: „Electromagnetic Field Coupling Between OverHead Power Lines and Nearby Metallic Pipelines in Case of Direct Lightning”, *Annals of the University of Craiova, Electrical Engineering series*, ISSN: 1842-4805, vol. 39, pp. 101-106, *10th International conference on Electromechanical and Power Systems (SIELMEN)*, Chişinău, Rep. Moldova, October 8-9, **2015**.

[E5] **L. Czumbil**, D.D. Micu, D. Şteţ & A. Ceclan: „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**.

[E6] L. Czumbil, A. Ceclan, D.D. Micu, D. Şteţ, M. Erchedi, S. Hanc, C. Martineac, I. Radu, & A. Demean: „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**.

[E7] D. Şteţ, L. Czumbil, M. Erchedi, S. Hanc & L. Ancăş: „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**.

[E8] D.D. Micu, L. Czumbil, G.C. Christoforidis & D. Şteţ: „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**.

[E9] D. Şteţ, D.D. Micu, L. Czumbil & L. Ancăş: „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**.

[E10] A. Ceclan, V. Ţopa, D.D. Micu & L. Czumbil: „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**.

[E11] L. Czumbil, D.D. Micu, G.C. Christoforidis, A. Ceclan & D. Şteţ: „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**.

[E12] A. Ceclan, D.O. Micu, L. Czumbil, D.D. Micu & E. Simion: „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**.

[E13] A. Ceclan, D.D. Micu, E. Simion, L. Czumbil, A. Mutu & C. Boca: „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**.

[E14] A. Ceclan, D.D. Micu, L. Czumbil, D.O. Micu & E. Simion: „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**.

[E15] F. Szombatfalvi-Torok, E. Simion, A. Ceclan, D.D. Micu & **L. Czumbil**: „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. 193-199, **2008**.

[E16] F. Szombatfalvi-Torok, E. Simion, A. Ceclan, D.D. Micu, D. Şteţ & **L. Czumbil**: „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. 199-205, **2008**.

F. Papers presented at International Conferences (3 as first author)

[F1] D.D. Micu, **L. Czumbil**, D. Şteţ & A. Ceclan: „Stability Analysis In Computational Problems Regarding Power Networks”, *International Conference On Applied Mechanics, Mathematics, Modeling And Simulation (AMMMS 2018)*, ISBN: 978-1-60595-589-6, Hong Kong, November 29-30, published in *DEStech Transactions on Computer Science and Engineering*, ISSN: 2475-8841, **2018**. Doi: [10.12783/dtce/ammms2018/27275](https://doi.org/10.12783/dtce/ammms2018/27275)

[F2] **L. Czumbil**, J. Kim & H. Nouri: „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**.

[F3] D.D. Micu, **L. Czumbil**, Ş.F. Braicu, & S. Hanc: „Electromagnetic Field Distribution Around High Voltage Power Lines”, *17th International Symposium Power Electronics (Ee2013)*, Novi Sad, Serbia, October 30 – November 1, **2013**.

[F4] D.D. Micu, G.C. Christoforidis, T.A. Papadopoulos, **L. Czumbil** & D. Şteţ: „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**.

[F5] D. Şteţ, **L. Czumbil**, D.D. Micu & L. Ancăş: „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**.

[F6] D.D. Micu, G.C. Christoforidis & **L. Czumbil**: „Analytical Difficulties in the Interfstud Software Development”, *10th International Conference on Applied Electromagnetics, (PES)*, ISBN: 978-86-6125-042-2, Nis, Serbia, September 25-29, **2011**.

[F7] L. Czumbil, D.D. Micu, A. Ceclan, E. Simion & D. Şteţ: „Induced A.C. Potential Evaluation Based on a Hybrid Method”, *6th International Conference on electrical and power engineering, (EPE)*, Iaşi, Romania, October 28-30, **2010**.

[F8] D. Şteţ, E. Simion, D.D. Micu, L. Dărăbant, L. Czumbil & A. Ceclan: „Electromagnetic Interference Study Based On Professional Software”, *6th International Conference on electrical and power engineering, (EPE)*, Iaşi, Romania, October 28-30, **2010**.

[F9] A. Ceclan, V. Ţopa, D.D. Micu, L. Czumbil & D. Şteţ: „On a New Procedure of Harmonic Regularization Applied in Return Stroke Current Identification”, *6th International Conference on electrical and power engineering, (EPE)*, Iaşi, Romania, October 28-30, **2010**.

[F10] D. Şteţ, D.D. Micu, A. Ceclan, L. Czumbil, C. Fărcaş, L. Dărăbant & R. Creţ: „Nonlinear Model for Corrosion of Metallic Pipeline Subjected to Alternating Voltage (AV)”, *Joint MMDE- IEEE ROMSC International Conference*, Iaşi, Romania, June 6-8, **2010**.

[F11] D.D. Micu, L. Czumbil, A. Ceclan, L. Cîmpan, L. Dărăbant & D. Şteţ: „Artificial Intelligence Techniques Applied in Electromagnetic Interference Problems”, *International Conference on Electromagnetic Fields, Health and Environment, (EHE)*, Sao Paulo, Brazil, November 17-19, **2009**.

[F12] D. Şteţ, D.D. Micu, E. Simion, L. Dărăbant, A. Ceclan & L. Czumbil: „The Study Of Electromagnetic Interferences Between HV Power Lines And Buried Structures Using CDEGS Software”, *The 6th International Workshop of Electromagnetic Compatibility (CEM)*, Constanţa, Romania, November 12-14, **2009**.

[F13] D.D. Micu, A. Ceclan & L. Czumbil: „Inductive Coupling Problems Solved with Special Interpolation Methods”, *10th International Conference on Optimization and Inverse Problems in Electromagnetism, (OIPE)*, Ilmenau, Germany, September. 14-17, **2008**.

[F14] A. Ceclan, D.O. Micu, L. Czumbil & D.D. Micu: „Monte Carlo Inverse Formulation of an Electromagnetic Interference Problem”, *10th International Conference on Optimization and Inverse Problems in Electromagnetism, (OIPE)*, Ilmenau, Germany, September. 14-17, **2008**.

[F15] D.D. Micu, A. Ceclan, D.O. Micu, L. Czumbil, D. Şteţ & E. Simion: „A New Approach of Interference Problems via Monte Carlo Inverse Simulation”, *7th International Conference Study and Control of Corrosion in the Perspective of Sustainable Development of Urban Distribution Grids, (URBCORR)*, ISBN: 978-606-521-032-5, pp. 226-230, Băile Felix, Romania, June 15-27, **2008**.

[F16] A. Ceclan, D.D. Micu, D.O. Micu & L. Czumbil: „On an Inverse Approach of Monte Carlo Simulation Interference Problem”, *Symposium of Theoretical Electrical Engineering, (SNET)*, ISBN: 978-606-521-045-5, pp. 230-234, Bucharest, Romania, June 5-7, **2008**.

[F17] D.D. Micu, A. Ceclan, **L. Czumbil** & E. Simion: „Regularization of Ill Conditioned Spline Interpolation Method Applied in Electromagnetic Interference Problems”, *13th Biennial IEEE Conference on Electromagnetic Field Computation, (CEFC)*, Athens, Greece, May 11-15, **2008**.

[F18] C. Szász, V. Chindriș & **L. Czumbil**: „Network Communication Strategy in Embryonic Systems with FPGA-based Hardware”, *IEEE SMC International Conference on Distributed HumanMachine Systems, (DHMS)*, ISBN: 978-80-01-04028-7, pp. 468-473, Athens, Greece, March 9-12, **2008**.

[F19] A. Ceclan, D.D. Micu, A. Pop, & **L. Czumbil**: „Scripts of Power Factor Correction”, *9th International Conference Engineering of Modern Electric Systems, (EMES)*, pp. 141-144, Oradea, Romania, May 24-26, **2007**.

G. Citations in ISI Journals or ISI Proceedings

[G1] M.A. Kamarposhti, H. Shokouhandeh, I. Colak & K. Eguchi: „Performance Improvement of Reluctance Synchronous Motor Using Brain Emotional Learning Based Intelligent Controller”, *Electronics*, ISSN: 1751-8687, **vol. 10, no. 21, art. no. 2595**, October, **2021**. DOI: [10.3390/electronics10212595](https://doi.org/10.3390/electronics10212595) **WOS: 000671966300001** {[B4]}

[G2] S. Nauta & R. Serra: „Zero-Sequence Current Measurement Uncertainty in Three-Phase Power Systems during Normal Operation”, *IET Generation Transmission & Distribution*, ISSN: 2079-9292, vol. 10, no. 21, art. no. 2595, October, **2021**. DOI: [10.1049/gtd2.12254](https://doi.org/10.1049/gtd2.12254) **WOS: 000710889300001** {[B6]}

[G3] **M.H. Elmashtoly**, H.I. Anis & A.Emam: „Mitigating Hazardous Potentials Near Pipelines Using Passive Grounding Grids”, *IEEE Access*, ISSN: 2169-3536, **vol. 11, no. 8, art. no. 1164**, August, **2021**. DOI: [10.1109/ACCESS.2021.3109309](https://doi.org/10.1109/ACCESS.2021.3109309) **WOS: 000671966300001** {[B8]}

[G4] S. Ayub, B.H. Guan, F. Ahmad, M.F. Javed, A. Mosavi & I. Felde: „Preparation Methods for Graphene Metal and Polymer Based Composites for EMI Shielding Materials: State of the Art Review of the Conventional and Machine Learning Methods”, *Metals*, ISSN: 2075-4701, vol. 11, no. 8, art. no. 1164, July, **2021**. DOI: [10.3390/met11081164](https://doi.org/10.3390/met11081164) **WOS: 000671966300001** {[B10],[B11],[C33],[C34],[D26],[D25],[D30]}

[G5] A. Popoli, L. Sandrolini & A. Cristofolini: „Comparison of Screening Configurations for the Mitigation of Voltages and Currents Induced on Pipelines by HVAC Power Lines”, *Energies*, ISSN: 1996-1073, vol. 31, no. 5, art. no. 3855, June, **2021**. DOI: [10.3390/en14133855](https://doi.org/10.3390/en14133855) **WOS: 000671966300001** {[B6]}

[G6] H.S. Gerçekcioglu & M. Akar: „Optimal Rotor Design of Novel Axial Flux Synchronous Reluctance Motor and Validation”, *International Transactions on Electrical Energy Systems*, ISSN: 2050-7038, vol. 14, no. 13, art. no. e12866, May, **2021**. DOI: [10.1002/2050-7038.12866](https://doi.org/10.1002/2050-7038.12866) WOS: 000629735200001 {[B4]}

[G7] M. Al-Gablawy, M.A. Mostafa & A.S. Hamza: „Implementation of Different Intelligent Controllers for the AC Corrosion of Metallic Pipelines Considering all HVOHTLs Operation Conditions”, *ISA Transactions*, ISSN: 0019-0578, **In Press**, **2021**. DOI: [10.1016/j.isatra.2021.02.003](https://doi.org/10.1016/j.isatra.2021.02.003) WOS: 000500185800004 {[B6][B10][B11][C18][D9]}

[G8] R. Djekidel, B. Bentouati, M.S. Javaid, H.R.E.H. Bouchekara, A.S. Bayoumi & R.A. El-Sehiemy: „Mitigating the Effects of Magnetic Coupling between HV Transmission Line and Metallic Pipeline using Slime Mould Algorithm”, *Journal of Magnetism and Magnetic Materials*, ISSN: 0304-8853, vol. 529, art. no. 167865, July, **2021**. DOI: [10.1016/j.jmmm.2021.167865](https://doi.org/10.1016/j.jmmm.2021.167865) WOS: 000636608000032 {[B6]}

[G9] Z. Jiang, S. Dong, Y. Zhang, G. Liu & T. Dong: „Corrosion of Copper Armor Caused by Induced Current in a 500 KV Alternating Current Submarine Cable”, *Electric Power Systems Research*, ISSN: 0378-7796, vol. 195, art. no. 107144, June, **2021**. DOI: [10.1016/j.epsr.2021.107144](https://doi.org/10.1016/j.epsr.2021.107144) WOS: 000639729900006 {[B6]}

[G10] R. Benato, S.D. Sessa, M. Forzan, M. Poli, F. Sanniti & R. Torchio: „HVAC Single Core Insulated Cables with Steel Reinforced Mechanical Protections: Effect on Sequence Impedances”, *IEEE Transactions on Power Delivery*, ISSN: 0885-8977, vol. 36, no. 3, pp. 1663-1671, June, **2021**. DOI: [10.1109/TPWRD.2020.3012974](https://doi.org/10.1109/TPWRD.2020.3012974) WOS: 000652799500040 {[C26]}

[G11] M. Izadi, M.Z.A.A. Kadir, M. Osman & M. Hajikhani: „Evaluation of Lightning Location using Measured Induced Voltage Obtained from Distribution Power Networks”, *Inverse Problems in Science and Engineering*, ISSN: 1741-5977, **vol. 183, pp. 221-233**, May, **2021**. DOI: [10.1080/17415977.2021.1914602](https://doi.org/10.1080/17415977.2021.1914602) WOS: 000650490800001 {[D29]}

[G12] A. Popoli, A. Cristofolini & L. Sandrolini: „A Numerical Model for the Calculation of Electromagnetic Interference from Power Lines on Nonparallel Underground Pipelines”, *Mathematics and Computers in Simulation*, ISSN: 0378-4754, vol. 183, pp. 221-233, May, **2021**. DOI: [10.1016/j.matcom.2020.02.015](https://doi.org/10.1016/j.matcom.2020.02.015) WOS: 000608589000017 {[C5]}

[G13] M. Al-Gablawy, M.A. Mostafa & A.S. Hamza: „Mitigation of AC Induced Voltage on the Metallic Pipeline based-on the Optimal Design of KOH-Polarization Cells”, *Electric Power Systems Research*, ISSN: 0378-7796, vol. 194, art. no. 107081, May, **2021**. DOI: [10.1016/j.epsr.2021.107081](https://doi.org/10.1016/j.epsr.2021.107081) WOS: 000630913300003 {[B6]}

[G14] W. Zhanga, B. Caoa, N. Nana, M. Li & Y.Q. Chen: „An adaptive PID-type sliding mode learning compensation of torque ripple in PMSM position servo systems towards energy

efficiency”, *ISA Transactions*, ISSN: 0019-0578, vol. 110, pp. 258-270, April, **2021**. DOI: [10.1016/j.isatra.2020.10.045](https://doi.org/10.1016/j.isatra.2020.10.045) WOS: 000631642800001 {[B4]}

[G15] Y. Fu, Q. Zhang & B. Yang: „Waveform Reconstruction of Lightning Current Based on Output-Error Model and Finite-Difference Time-Domain Method”, *Earth and Space Science*, ISSN: 2333-5084, vol. 8, no. 2, art. no. e2020EA001311, February, **2021**. DOI: [10.1029/2020EA001311](https://doi.org/10.1029/2020EA001311) WOS: 000624393800012 {[C23][D20]}

[G16] N. Tshivhase, A.N. Hasan & T. Shongwe: „A Fault Level-Based System to Control Voltage and Enhance Power Factor Through an On-Load Tap Changer and Distributed Generators”, *IEEE Access*, ISSN: 2169-3536, vol. 9, pp. 34023-34039, **2021**. DOI: [10.1109/ACCESS.2021.3061622](https://doi.org/10.1109/ACCESS.2021.3061622) WOS:000626311400001 {[C2]}

[G17] Q. Chen, Y. Yan, G. Xu, M. Xu & G. Liu: „Principle of Torque Ripple Reduction in Synchronous Reluctance Motors with Shifted Asymmetrical Poles”, *IEEE Journal of Emerging and Selected Topics in Power Electronics*, ISSN: 2168-6777, vol. 8, no. 3, pp. 2611-2622, **2021**. DOI: [10.1109/JESTPE.2019.2909570](https://doi.org/10.1109/JESTPE.2019.2909570) WOS: 000500185800004 {[B4]}

[G18] C. Hecht, D. Sprake, Y. Vagapov & A. Anuchin: „Domestic Demand-Side Management: Analysis of Microgrid with Renewable Energy Sources using Historical Load Data”, *Electrical Engineering*, ISSN: 0948-7921, **2021**. DOI: [10.1007/s00202-020-01197-y](https://doi.org/10.1007/s00202-020-01197-y) WOS: 000607317500012 {[B4]}

[G19] J. Shen, X. Chen, Z. Cui & L. Ma: „Optimization Design and Research on Vibration and Noise of Permanent Magnet Synchronous Motor for Vehicle”, *Progress In Electromagnetics Research M*, ISSN: 1937-8726, vol. 100, pp. 105-115, **2021**. DOI: [10.2528/PIERM20102711](https://doi.org/10.2528/PIERM20102711) WOS: 000620159800009 {[B4]}

[G20] A.K. Thakur, A.K. Arya & P. Sharma: „The Science of Alternating Current-Induced Corrosion: A Review of Literature on Pipeline Corrosion Induced due to High-Voltage Alternating Current Transmission Pipelines”, *Corrosion Reviews*, ISSN: 0334-6005, vol. 38, no. 6, pp. 463-472, December **2020**. DOI: [10.1515/corrrev-2020-0044](https://doi.org/10.1515/corrrev-2020-0044) WOS: 000594187100001 {[B8]}

[G21] C. Sun, F. Wen, W. Xiong, H. Wang & H. Shang: „Multi-Objective Comprehensive Teaching Algorithm for Multi-Objective Optimisation Design of Permanent Magnet Synchronous Motor”, *IET Electric Power Applications*, ISSN: 1751-8660, vol. 14, no. 13, pp. 2564-2576, December, **2020**. DOI: [10.1049/iet-epa.2020.0322](https://doi.org/10.1049/iet-epa.2020.0322) WOS: 000619634200002 {[B4]}

[G22] A. Credo, G. Fabri, M.A. Villani & M. Popescu: „A Robust Design Methodology for Synchronous Reluctance Motors”, *IEEE Transactions on Energy Conversion*, ISSN: 0885-8969, vol. 35, no. 4, pp. 2095-2105, December, **2020**. DOI: [10.1109/TEC.2020.3016567](https://doi.org/10.1109/TEC.2020.3016567) WOS: 000594377000040 {[B4]}

[G23] A. Popoli, L. Sandrolini & A. Cristofolini: „Inductive Coupling on Metallic Pipelines: Effects of a Nonuniform Soil Resistivity along a Pipeline-Power Line Corridor”, *Electric Power*

Systems Research, ISSN: 0378-7796, vol. 189, art. no. 106621, December **2020**. DOI: [10.1016/j.eprs.2020.106621](https://doi.org/10.1016/j.eprs.2020.106621) WOS: 000594662300019 {[B6]}

[G24] M. Parise: „On the Electromagnetic Field of an Overhead Line Current Source”, *Electronics*, ISSN: 2079-9292, vol. 9, no. 12, art. no. 2009, December **2020**. DOI: [10.3390/electronics9122009](https://doi.org/10.3390/electronics9122009) WOS: 000601965600001 {[D17]}

[G25] N. Tshivhase, A.N. Hasan & T. Shongwe: „Proposed Fuzzy Logic System for Voltage Regulation and Power Factor Improvement in Power Systems with High Infiltration of Distributed Generation”, *Energies*, ISSN: 1996-1073, vol. 13, no. 14, art. no. 4241, August **2020**. DOI: [10.3390/en13164241](https://doi.org/10.3390/en13164241) WOS: 000565647200001 {[C2]}

[G26] G. Ramarao & K. Chandrasekaran: „Lightning Channel-base-Current Estimation using Engineering Return-Stroke Models from Measured Magnetic Field based on Deconvolution Method”, *IEEE Transactions on Electromagnetic Compatibility*, ISSN: 0018-9375, vol. 62, no. 3, pp. 798-806, June **2020**. DOI: [10.1109/TEM.2019.2922434](https://doi.org/10.1109/TEM.2019.2922434) WOS: 000544278500017 {[D29]}

[G27] C. Wang, X. Liang & R. Radons: „Minimum Separation Distance Between Transmission Lines and Underground Pipelines for Inductive Interference Mitigation”, *IEEE Transactions on Power Delivery*, ISSN: 0885-8977, vol. 35, no. 3, pp. 1299-1309, June, **2020**. DOI: [10.1109/TPWRD.2019.2941928](https://doi.org/10.1109/TPWRD.2019.2941928) WOS: 000537949900023 {[B11]}

[G28] C. Wang, X. Liang & F. Freschi: „Investigation of Factors Affecting Induced Voltages on Underground Pipelines Due to Inductive Coupling With Nearby Transmission Lines”, *IEEE Transactions on Industry Applications*, ISSN: 0093-9994, vol. 56, no. 2, pp. 1266-1274, April, **2020**. DOI: [10.1109/TIA.2020.2966570](https://doi.org/10.1109/TIA.2020.2966570), WOS: 000522460500034 {[B11]}

[G29] G. Lucca: „AC Interference from a Faulty Power Line on Nearby Buried Pipelines: Influence of the Surface Layer Soil”, *IET Science, Measurement & Technology*, ISSN: 1751-8822, vol. 14, no. 2, p. 225 – 232, March **2020**. DOI: [10.1049/iet-smt.2019.0133](https://doi.org/10.1049/iet-smt.2019.0133), WOS: 000517113100011 {[B6]}

[G30] M.A. Al-Gabalawy, M.A. Mostafa, A.S. Hamza & S.A. Hussien: „Modeling of the KOH-Polarization Cells for Mitigating the Induced AC Voltage in the Metallic Pipelines”, *Heliyon*, ISSN: 2405-8440, vol. 6, no. 3, art. E03417, March, **2020**. DOI: [10.1016/j.heliyon.2020.e03417](https://doi.org/10.1016/j.heliyon.2020.e03417), WOS: 000522422500008 {[B9]}

[G31] S. Panda & R.K. Keshri: „Reduced Rib Synchronous Reluctance Motor for Traction Applications”, *Advances in Electrical and Computer Engineering*, ISSN: 1582-7445, vol. 19, no. 4, pp. 83-90, **2019**. DOI: [10.4316/AECE.2019.04010](https://doi.org/10.4316/AECE.2019.04010), WOS: 000500274700009 {[B4]}

[G32] A.U. Ganesan & L.N. Chokkalingam: „Influence of Rotor Cage Resistance in Torque Ripple Reduction for Line Start Synchronous Machines”, *IET Electric Power Applications*, ISSN: 1751-8660, vol. 13, no. 12, pp. 1921-1934, December, **2019**. DOI: [10.1049/iet-epa.2018.5783](https://doi.org/10.1049/iet-epa.2018.5783), WOS: 000500185800004 {[B4]}

[G33] I. Felea, M. Lolea & S. Dzitac: „A Fuzzy Approach for the Treatment of the Human Diseases Resulting from Exposure to Electromagnetic Fields”, *Studies in Informatics and Control*, ISSN: 1220-1766, vol. 28, no. 3, pp. 299-307, September, **2019**. DOI: [10.24846/v28i3y201906](https://doi.org/10.24846/v28i3y201906), WOS: 000488609400006 {[B10]}

[G34] **T. Pivem**, S. Petry, F. Silva Moreira, F. de Oliveira de Araujo, A.L. Bettiol, D.B.S. Figueiredo, R. Teixeira Machado, L. de Oliveira de Araujo & P. Sullyvan: „Development of a Low Cost Device for Monitoring Energy Consumption Profile in Rural Consumers”, *54th International Universities Power Engineering Conference (UPEC)*, ISBN: 978-1-7281-3349-2, September 3-6, **2019**. DOI: [10.1109/UPEC.2019.8893499](https://doi.org/10.1109/UPEC.2019.8893499) WOS: 000619338200041 {[C9]}

[G35] S.Hr. Aghay Kaboli1, A. Al Hinai, A.H. Al-Badi, Y. Charabi & A. Al Saifi: „Prediction of Metallic Conductor Voltage Owing to Electromagnetic Coupling via a Hybrid ANFIS and Backtracking Search Algorithm”, *Energies*, ISSN: 1996-1073, vol. 12, no. 19, paper 3651, September, **2019**. DOI: [10.3390/en12193651](https://doi.org/10.3390/en12193651), WOS: 000498072600062 {[B6], [B8], [B10], [B11], [C34], [D9]}

[G36] TF. Song, ZY. Zhang, HJ. Liu & WL. Hu: „Multi-Objective Optimisation Design and Performance Comparison of Permanent Magnet Synchronous Motor for EVs based on FEA”, *IET Electric Power Applications*, ISSN: 1751-8660, vol. 13, no. 8, pp. 1157-1166, August, **2019**. DOI: [10.1049/iet-epa.2019.0069](https://doi.org/10.1049/iet-epa.2019.0069), WOS: 000479059300010 {[B4]}

[G37] G. Boztas, O. Aydogmus, M. Caner & H. Guldemir: „Design, Optimisation and Implementation of Low-Voltage Synchronous Reluctance Motor for Solar-Powered Systems”, *IET Power Electronics*, ISSN: 1755-4535, vol. 12, no. 7, pp. 1679-1685, June, **2019**. DOI: [10.1049/iet-pel.2018.5895](https://doi.org/10.1049/iet-pel.2018.5895), WOS: 000474645300008 {[B4]}

[G38] A.M. Bors, M.E. Lungulescu, N.O. Nicula, A.R. Caramitu & I. Lingvay: „Ageing of Some Lacquers due to Microbiological Stress”, *Materiale Plastice*, ISSN: 0025-5289, vol. 56, no. 2, pp. 330-336, June **2019**. WOS: 000476641000008 {[D11]}

[G39] G. Lucca: „AC Corrosion on Pipelines: Influence of the Surface Layer Soil Resistivity in Evaluating the Current Density by a Probabilistic Approach”, *Progress in Electromagnetics Research M*, ISSN: 1937-8726, vol. 79, **2019**. DOI: [10.2528/PIERM19011003](https://doi.org/10.2528/PIERM19011003), WOS: 000465422100018 {[B6], [B8], [B11]}

[G40] **C. Mureşan**, M.I. Ardelean, B. Ţebrean & S. Crişan „LabVIEW Program for Implementing Hilbert Spaces Algorithms in Power Systems Analysis”, *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.2019.8759681](https://doi.org/10.1109/MPS.2019.8759681) WOS: 000612401900032 {[C31]}

[G41] **L. Dărăbant**, O. Pop & C. Vătavu: „Adaptive OrCAD Simulation Approach in Teaching Non Linear Devices”, *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.2019.8759676](https://doi.org/10.1109/MPS.2019.8759676) WOS: 000612401900027 {[F1]}

[G42] C. Mureşan, B. Ţebrean, R. Copândeian, M.I. Ardelean & F. Drăgan „Power Analysis Tools Developed in the LabVIEW Programming Environment”, *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.2019.8759714](https://doi.org/10.1109/MPS.2019.8759714) WOS: 000612401900063 {[C31]}

[G43] A.U. Ganesan & L.N. Chokkalingam: „Single-Phase Direct-on-line Synchronous Motor for a Specific Application in Comparison with an Induction Motor”, *International Transactions on Electrical Energy Systems*, ISSN: 2050-7038, vol. 29, no. 4, art. no. e2809, April, 2019. DOI: [10.1002/etep.2809](https://doi.org/10.1002/etep.2809), WOS: 000467882000037 {[B4]}

[G44] A. L. Rusnac & O. Grigore: „Development of an Intelligent Seizure Prediction System”, *11th International Symposium on Advanced Topics in Electrical Engineering (ATEE)*, ISBN: 978-1-7281-0101-9, Bucharest, Romania, March 28-30, 2019. DOI: [10.1109/ATEE.2019.8724945](https://doi.org/10.1109/ATEE.2019.8724945) WOS: 000475904500102 {[B10]}

[G45] I. Lingvay, A.M. Bors, D. Lingvay, L. Radermacher & V. Neagu: „Electromagnetic Pollution of the Environment and its Effects on the Materials from the Built up Media”, *Revista de Chimie*, ISSN: 0034-7752, vol. 69, no. 12, pp. 3593-3599, December, 2018. WOS: 000458533800056 {[B6],[C18],[C19],[C22]}

[G46] R. Djekidel, S.A. Bessedik, P. Spiteri & D. Mahi: „Passive Mitigation for Magnetic Coupling between HV Power Line and Aerial Pipeline using PSO Algorithms Optimization”, *Electric Power Systems Research (EPSR)*, ISSN: 0378-7796, vol. 165, pp. 18-26, December, 2018. DOI: [10.1016/j.epsr.2018.08.014](https://doi.org/10.1016/j.epsr.2018.08.014), WOS: 000449893900003 {[B6],[C33]}

[G47] K.B. Adedeji, A.A. Ponle, B.T. Abe, A.A. Jimoh, A.M. Abu-Mahfouz & Y. Hamam: „GUI-Based AC Induced Corrosion Monitoring for Buried Pipelines near HVTLs”, *Engineering Letters*, ISSN: 1816-093X, vol. 26, no. 4, November, 2018. WOS: 000446604500076 {[B6],[D19],[C18]}

[G48] H. Benbouhenni & Z. Boudjema: „Two-level DTC based on ANN controller of DFIG using 7-level Hysteresis Command to Reduce Flux Ripple Comparing with Traditional Command”, *International Conference on Applied Smart Systems (ICASS)*, ISBN: 978-1-5386-6866-5, Medea, Algeria, November 24-25, 2018. WOS: 000468404600068 {[B10]}

[G49] G. Serişan, I. Tristiu & G. Fierascu: „Assessment for Efficient Operation of Smart Grids using Advanced Technologies”, *International Conference and Exposition on Electrical and Power Engineering (EPE)*, ISBN: 978-1-5386-5062-2, Iaşi, Romania, October 18-19, 2018. Doi: [10.1109/ICEPE.2018.8559609](https://doi.org/10.1109/ICEPE.2018.8559609) WOS: 000458752200176 {[C31]}

[G50] G. Lucca: „Different Approaches in Calculating AC Inductive Interference from Power Lines on Pipelines”, *IET Science Measurement & Technology*, ISSN: 1751-8822, vol. 12, no. 6,

pp. 802-806, September, **2018**. DOI: [10.1049/iet-smt.2018.0086](https://doi.org/10.1049/iet-smt.2018.0086) WOS: 000441514100014
{[B6],[B8],[B11]}

[G51] P. Czarnywojtek & W. Machczyński: „Wave Propagation Effects Induced in Transmission Pipelines by EMI from Power Lines”, *Electrical Engineering*, ISSN: 0948-7921, vol. 100, no. 3, pp. 1739-1747, September, **2018**. DOI: [10.1007/s00202-017-0646-8](https://doi.org/10.1007/s00202-017-0646-8) WOS: 000440282300039 {[B8],[D21]}

[G52] E. Lunca, S. Ursache & A. Salceanu: „Computation and Analysis of the Extremely Low Frequency Electric and Magnetic Fields Generated by two Designs of 400 kV Overhead Transmission Lines”, *Measurement*, ISSN: 0263-2241, vol. 124, pp. 197-204, August, **2018**. DOI: [10.1016/j.measurement.2018.04.012](https://doi.org/10.1016/j.measurement.2018.04.012), WOS: 000433238500024 {[C15]}

[G53] M. Chen, S. Liu, J. Zhu, C. Xie, H. Tian & J. Li: „Effects and Characteristics of AC Interference on Parallel Underground Pipelines Caused by an AC Electrified Railway”, *Energies*, ISSN: 1996-1073, vol. 11, no. 9, paper no. 2255, August, **2018**. DOI: [10.3390/en11092255](https://doi.org/10.3390/en11092255), WOS: 000446604500076 {[B6], [C18]}

[G54] Z.L. Zhang, P. Gao, J. Zou, G. Liu, Y. Dan & D. Mei: „Study on Alternating Current Corrosion of Carbon Steel Grounding Electrode”, *4th IEEE International Conference on Applied System Innovation, (ICASI)*, ISBN:978-1-5386-4342-6, pp. 385-388, Tokyo, Japan, April 13-17, **2018**. DOI: [10.1109/ICASI.2018.8394263](https://doi.org/10.1109/ICASI.2018.8394263), WOS: 000437351700102 {[B6]}

[G55] A.R. Kamar, A.M. Abd-Elhady, N.A. Sabiha & M.A. Izzularab: „Location Estimation of Coating Defects and Mitigation of Induced AC Voltages along Buried Gas Pipeline”, *IET Science Measurement & Technology*, ISSN: 1751-8822, vol. 12, no. 2, pp. 209-217, March, **2018**. Doi: [10.1049/iet-smt.2017.0157](https://doi.org/10.1049/iet-smt.2017.0157) WOS:000427630000008 {[B6],[B9]}

[G56] G. Lucca: „Influence of Steel Non-Linearity in Assessing 50-60 Hz Interference on Pipelines”, *Progress in Electromagnetics Research M*, ISSN: 1937-8726, vol. 74, pp. 1-10, **2018**. Doi: [10.2528/PIERM18071811](https://doi.org/10.2528/PIERM18071811) WOS: 000450487200001 {[B6],[B8],[B11]}

[G57] A.A. Ponnle, K.B. Adedeji, B.T. Abe, & A.A. Jimoh: „Variation in Phase Shift of Phase Arrangements on Magnetic Field Underneath overhead Double-Circuit HVTLs: Field Distribution and Polarization Study”, *Progress in Electromagnetics Research M*, ISSN: 1937-8726, vol. 56, pp. 157-167, **2017**. DOI: [10.2528/PIERM16110304](https://doi.org/10.2528/PIERM16110304) (Scopus) WOS:000410514900016 {[B6],[B8]}

[G58] E.S.M. El-Refaie, A.L.S. Ahmed, S.M. Mohamed & H.M. Gaber: „Electromagnetic Field Interference between High Voltage Transmission Lines and Nearby Metallic Gas Pipelines”, *19th International Middle-East Power Systems Conference (MEPCON)*, ISSN: 978-1-5386-0990-3, pp. 332-336, Shibin Al Kawm, Egypt, December 19-21, **2017**.WOS:000428724000049 {[B6]}

[G59] D. Rabah, H.A. Chafik & S.A. Bessedik: „Electrostatic and Electromagnetic Effects of HV Overhead Power Line on Above Metallic Pipeline”, *5th International Conference on Electrical*

Engineering - Boumerdes (ICEE-B), ISBN: 978-1-5386-0686-5, Boumerdes, Algeria, October 29-31, **2017**. DOI: [10.1109/ICEE-B.2017.8192088](https://doi.org/10.1109/ICEE-B.2017.8192088) (IEEEExplore) WOS:000425952600118 {[C32]}

[G60] M. Ouadah, O. Touhami, R. Ibtouen & M. Zergoug: „Method for Diagnosis of the Effect of AC on the X70 Pipeline due to an Inductive Coupling caused by HVPL”, *IET Science Measurement & Technology*, ISSN: 1751-8822, vol. 11, no. 6, pp. 766-772, September, **2017**. DOI: [10.1049/iet-smt.2016.0519](https://doi.org/10.1049/iet-smt.2016.0519) WOS: 000410154600012 {[B6]}

[G61] A.M. Bors, N. Butoi, A.R. Caramitu, V. Marinescu & I. Lingvay: „The Thermooxidation and Resistance to Moulds Action of Some Polyethylene Sorts used at Anticorrosive Insulation of the Underground Pipelines”, *Materiale Plastice*, ISSN: 0025-5289, vol. 54, no. 3, pp. 447-452, September **2017**. WOS: 000426412300009 {[D11]}

[G62] O. Coufal: „Current Density in Two Parallel Cylindrical Conductors and their Inductance”, *Electrical Engineering*, ISSN:0948-7921, vol. 99, no. 2, pp. 519-523, June, **2017**. DOI: [10.1007/s00202-016-0378-1](https://doi.org/10.1007/s00202-016-0378-1) WOS:000401692600006 {[D17]}

[G63] A. Caramitu, N. Butoi, T. Rus, A.M. Luchian & S. Author: „The Resistance to the Action of Molds of Some Painting Materials Aged by Thermal Cycling and Exposed to an Electrical Field of 50 Hz”, *Materiale Plastice*, ISSN: 0025-5289, vol. 54, no. 2, pp. 331-337, June **2017**. WOS: 000408702100030 {[D11]}

[G64] R. Porumb, T. Leonida, N. Golovanov, C. Toader & S. Popescu: „The Neutral Conductor Load in the Low Voltage Intelligent Microgrids”, *International Conference on Modern Power Systems (MPS)*, Cluj-Napoca, Romania, June 6-9, **2017**. DOI: [10.1109/MPS.2017.7974470](https://doi.org/10.1109/MPS.2017.7974470) (IEEEExplore) WOS:000428462600097 {[B9]}

[G65] M. Crețu, L. Dărăbant & A. Ceclan: „Power Factor Compensation using ORCAD Simulation. A New Approach in Teaching Electrical Engineering”, *International Conference on Modern Power Systems (MPS)*, Cluj-Napoca, Romania, June 6-9, **2017**. DOI: [10.1109/MPS.2017.7974426](https://doi.org/10.1109/MPS.2017.7974426) (IEEEExplore) WOS:000428462600054 {[B10]}

[G66] L. Dărăbant, D. Șteț, M. Crețu & G. Cosovici: „ORCAD Implementation of a Frequency Response Function using Equivalent Circuits”, *10th International Symposium on Advanced Topics in Electrical Engineering (ATEE)*, ISBN: 978-1-5090-5160-1, pp. 103-106, Bucharest, Romania, March 23-25, **2017**. DOI: [10.1109/ATEE.2017.7905165](https://doi.org/10.1109/ATEE.2017.7905165) WOS: 000403399400021 {[B11]}

[G67] R. Porumb, Ș. Gheorghe, G. Darie & T. Boboc: „Analysis of Power Quality Issues Raised by PV Generation and e-Parking Storage Capacities in UPB Smart Grid Environment”, *10th International Symposium on Advanced Topics in Electrical Engineering (ATEE)*, pp. 802-807, Bucharest, Romania, March 23-25, **2017**. DOI: [10.1109/ATEE.2017.7905113](https://doi.org/10.1109/ATEE.2017.7905113) WOS: 000403399400156 {[B9]}

[G68] M. Ouadah, O. Touhami, R. Ibtouen, M.F. Benlamnouar & M. Zergoug: „Corrosive Effects of the Electromagnetic Induction caused by the High Voltage Power Lines on Buried X70

Steel Pipelines”, *International Journal of Electrical Power & Energy Systems (IJEPES)*, ISSN: 0142-0615 vol. 91, pp. 34–41, **2017**. Doi: [0.1016/j.ijepes.2017.03.005](https://doi.org/10.1016/j.ijepes.2017.03.005) WOS: 000405879300004 **{[B6]}**

[G69] G. Lucca: „Electromagnetic Interference from Power Lines on Pipelines: Influence of Pipe Insulating Coating Degradation”, *International Transactions on Electrical Energy Systems*, ISSN: 2050-7038, vol. 26, no. 12, pp. 2699-2712, December, **2016**. Doi: [10.1002/etep.2229](https://doi.org/10.1002/etep.2229) WOS: 000393838000011 **{[B6],[B8],[B11]}**

[G70] G. Serițan, I. Tristiu, O. Ceaki & T. Boboc: „Power Quality Assessment for Microgrid Scenarios”, *International Conference and Exposition on Electrical and Power Engineering (EPE)*, ISBN:978-1-5090-6128-0, pp. 723-727, Iași, Romania, October 20-22, **2016**. Doi: [10.1109/ICEPE.2016.7781434](https://doi.org/10.1109/ICEPE.2016.7781434), WOS: 000390706300144 **{[C31]}**

[G71] R. Porumb, D. Apetrei & E. Macsim: „Knowledge-Based Decisions in Smart Grids”, *International Conference and Exposition on Electrical and Power Engineering (EPE)*, ISBN:978-1-5090-6128-0, pp. 733-737, Iași, Romania, October 20-22, **2016**. Doi: [10.1109/ICEPE.2016.7781436](https://doi.org/10.1109/ICEPE.2016.7781436), WOS: 000390706300146 **{[C31]}**

[G72] G. Lucca: „Electromagnetic Interference at Power Frequencies: Shielding Factor Related to an Urban Environment”, *IET Science Measurement & Technology*, ISSN: 1751-8822, vol. 10, no. 6, pp. 614-620, September, **2016**. Doi: [10.1049/iet-smt.2016.0016](https://doi.org/10.1049/iet-smt.2016.0016) WOS: 000383470600010 **{[B6],[B8],[B11]}**

[G73] M. Shaban, M.A. Salam, S.P. Ang & W. Voon: „Induced Sheath Voltage in Power Cables: A Review”, *Renewable & Sustainable Energy Reviews*, ISSN: 1364-0321, vol. 62, pp. 1236-1251, September, **2016**. Doi: [10.1016/j.rser.2016.05.032](https://doi.org/10.1016/j.rser.2016.05.032) WOS:000379270600088 **{[C31]}**

[G74] S. Haifeng, W. Pei, C. Haojing, A. Xiancang, E. Tianlong, S. Bonian, Z. Rongrong, L. Zhihong & W. Chunfeng: „Study on Electromagnetic Influence of 750kV AC Transmission Lines on Multiple Buried Pipelines”, *Asia-Pacific International Symposium on Electromagnetic Compatibility (APEMC)*, ISBN:978-1-4673-9494-9, pp. 31-34, Shenzhen, China, May 17-21, **2016**. Doi: [10.1109/APEMC.2016.7522725](https://doi.org/10.1109/APEMC.2016.7522725) WOS: 000390842100009 **{[D16]}**

[G75] O. Pop, R. Fizeșan, A. Taut & E. Ceuca: „Influence of Switching Frequency on Active and Reactive Load Power of Resonant Converters”, *39th International Spring Seminar On Electronics Technology (ISSE)*, ISBN:978-1-5090-1389-0, pp. 328-331, Pilsen, Czech Republic, May 18-22, **2016**. Doi: [10.1109/ISSE.2016.7563214](https://doi.org/10.1109/ISSE.2016.7563214) WOS: 000387089800064 **{[B9]}**

[G76] M. Crețu, A. Dărăbant & R.V. Ciupa: „Magnetic Stimulation of the Spinal Cord: Evaluating the Characteristics of an Appropriate Stimulator”, *Artificial Organs*, ISSN: 0160-564X, vol. 39, no. 10, pp. 841-848, October, **2015**. Doi: [10.1111/aor.12617](https://doi.org/10.1111/aor.12617) WOS: 000363330200008 **{[C31]}**

[G77] T. Micu, D.O. Micu & D. Șteț: „A Geometrical Method for Conducting Spheres in Electrostatic Field”, *Revue Roumaine des Sciences Techniques Serie Electrotechnique et*

Energetique, ISSN: 0035-4066, Vol. 60, No. 4, pp. 345-354, October, **2015**. ([link](#)) WOS: 000380570500061 **{[B10]}**

[G78] M. Nassereddine, J. Rizk, A. Hellany & M. Nagrial: „Transmission Steel Poles Novel Arrangement to Control the Pole EPR under Substation Fault”, *Australasian Universities Power Engineering Conference (AUPEC)*, ISBN: 978-1-4799-8725-2, Wollongong, Australia, September 27-30, **2015**. DOI: [10.1109/AUPEC.2015.7324790](https://doi.org/10.1109/AUPEC.2015.7324790) WOS: 000376680000004 **{[B6]}**

[G79] M. Crețu & D.D. Micu: „Improved Coil Design for Repetitive Magnetic Stimulation of the Spinal Cord”, *COMPEL - The International Journal for Computation and Mathematics in Electrical and Electronic Engineering*, ISSN: 0332-1649, vol. 34, no. 4, pp. 1043-1053, **2015**. DOI: [10.1108/COMPEL-10-2014-0253](https://doi.org/10.1108/COMPEL-10-2014-0253) WOS: 000359046300004 **{[C31]}**

[G80] M.X. Lu, D.Z. Tang, Y.X. Du & L. Zhang: „Investigation on Corrosion of Zinc Ribbon under Alternating Current”, *Corrosion Engineering Science And Technology*, ISSN: 1478-422X, vol. 50, no. 3, pp. 256-263, May, **2015**. Doi: [10.1179/1743278215Y.0000000010](https://doi.org/10.1179/1743278215Y.0000000010) WOS: 000353583200014 **{[B6]}**

[G81] M. Nassereddine, J. Rizk, A. Hellany & M. Nagrial: „Induced Voltage Behavior on Pipelines Due to HV AC Interference under Broken OHEW”, *10th IEEE Conference on Industrial Electronics and Applications (ICIEA)*, ISBN:978-1-4799-8389-6, pp. 2044 - 204, Auckland, New Zealand, June 15-17, **2015**. Doi: [10.1109/ICIEA.2015.7334451](https://doi.org/10.1109/ICIEA.2015.7334451) WOS: 000377208900378 **{[B6]}**

[G82] L. Dărăbant, M. Crețu, D. Rafiroiu & R.V. Ciupa: „Evaluating the Efficiency of Stimulators used in Magnetic Stimulation of the Spinal Cord”, *9th International Symposium on Advanced Topics in Electrical Engineering, (ATEE)*, ISBN: 978-1-4799-7514-3, Bucharest, Romania, May 7-9, **2015**. Doi: [10.1109/ATEE.2015.7133779](https://doi.org/10.1109/ATEE.2015.7133779) WOS:000368159800050 **{[D24], [C31]}**

[G83] D. Tang, Y. Du, M. Lu, S. Chen, Z. Jiang & L. Dong: „Study on Location of Reference Electrode for Measurement of Induced Alternating Current Voltage on Pipeline”, *International Transactions On Electrical Energy Systems*, ISSN: 2050-7038, Vol. 25, No. 1, pp. 99-119, January, **2015**. Doi: [10.1002/etep.1827](https://doi.org/10.1002/etep.1827) WOS: 000347731300007 **{[B6]}**

[G84] M. Izadi, M.Z.A. Ab Kadir & M. Hajikhani: „An Algorithm for Evaluation of Lightning Electromagnetic Fields at Different Distances with respect to Lightning Channel”, *Mathematical Problems in Engineering*, ISSN: 1024-123X, **2014**. Doi: [10.1155/2014/925463](https://doi.org/10.1155/2014/925463) WOS: 000345384100001 **{[D28]}**

[G85] T. Micu, D.O. Micu & D. Șteț: „A Geometrical Method for Finding the Image Charges for Two Orthogonally Conducting Spheres”, *International Symposium on Fundamentals of Electrical Engineering, (ISFEE)*, Bucharest, Romania, November 28-29, **2014**. DOI: [10.1109/ISFEE.2014.7050593](https://doi.org/10.1109/ISFEE.2014.7050593) WOS: 000380570500061 (**IEEEXplore**) **{[B10]}**

[G86] M. Nassereddine, A. Hellany, J. Rizk & M. Nagrial: „Optical Ground Wire (OPGW) Jointing and Safety Risk Assessment: Earthing Requirements”, *49th International University Power Engineering Conference (UPEC)*, Cluj-Napoca, Romania, September 2-5, **2014**. DOI: [10.1109/UPEC.2014.6934792](https://doi.org/10.1109/UPEC.2014.6934792) WOS: 000364087800184 {[B6]}

[G87] O.A. Pop: „Analysis and Simulation of Quasi-Resonant Inverter for Induction Heating Applications”, *49th International University Power Engineering Conference (UPEC)*, ISBN: 978-147996557-1, Cluj-Napoca, Romania, September 2-5, **2014**. DOI: [10.1109/UPEC.2014.6934831](https://doi.org/10.1109/UPEC.2014.6934831) WOS: 000364087800219 {[B8], [B9]}

[G88] O. Ceaki, R. Vatu, N. Golovanov, R. Porumb & G. Seritan: „Analysis of the Grid-Connected PV Plants behavior with FACTS Influence”, *49th International University Power Engineering Conference (UPEC)*, ISBN: 978-147996557-1, Cluj-Napoca, Romania, September 02-05, **2014**. DOI: [10.1109/UPEC.2014.6934822](https://doi.org/10.1109/UPEC.2014.6934822) WOS: 000364087800211 {[B9]}

[G89] R. Vatu, O. Ceaki, N. Golovanov, R. Porumb & G. Seritan: „Analysis of Storage Technologies within Smart Grid Framework”, *49th International University Power Engineering Conference (UPEC)*, ISBN: 978-147996557-1, Cluj-Napoca, Romania, September 02-05, **2014**. DOI: [10.1109/UPEC.2014.6934823](https://doi.org/10.1109/UPEC.2014.6934823) WOS: 000364087800212 {[C31]}

[G90] A. Novitskiy, I. Konotop & D. Westermann: „Interactions by the Use of Common Pylons for EHV Transmission Lines and Electric Railroad Catenary System”, *9th International Electric Power Quality and Supply Reliability Conference, (PQ)*, pp. 315-322, Rakvere, Estonia, June 11-13, **2014**. Doi: [10.1109/PQ.2014.6866833](https://doi.org/10.1109/PQ.2014.6866833) WOS: 000345736800054 {[B6]}

[G91] A.Z. El Dein: „Parameters Affecting the Charge Distribution along Overhead Transmission Lines' Conductors and their Resulting Electric Field”, *Electric Power Systems Research*, ISSN: 0378-7796, Vol. 108, pp. 198-210, March, **2014**. Doi: [10.1016/j.epsr.2013.11.011](https://doi.org/10.1016/j.epsr.2013.11.011) WOS: 000331509700021 {[B8],[B11]}

[G92] M. Crețu & R.V. Ciupa: „Magnetic Coil Design for Evaluating the Response of the Spinal Cord during Magnetic Stimulation”, *8th International Conference and Exposition on Electrical and Power Engineering (EPE)*, ISBN:978-1-4799-5849-8, pp. 237-240, Iasi, Romania, October 16-18, **2013**. WOS:000353565300039 {[C31]}

[G93] A.Z. El Dein: „Calculations of the Charge Distribution along Multi-Overhead Transmission Lines' Conductors”, *IET Generation Transmission & Distribution*, ISSN: 1751-8687, vol. 7, no. 10, pp. 1116-1122, **2013**. Doi: [10.1049/iet-gtd.2012.0630](https://doi.org/10.1049/iet-gtd.2012.0630) WOS: 000337954100007 {[B8],[B11]}

[G94] O.E Gouda, A.Z. El Dein & M.A.H. El-Gabalawy: „Effect of Electromagnetic Field of Overhead Transmission Lines on the Metallic Gas Pipe-Lines”, *Electric Power Systems Research*, ISSN: 0378-7796, vol. 103, pp. 129-136, **2013**. Doi: [10.1016/j.epsr.2013.05.002](https://doi.org/10.1016/j.epsr.2013.05.002) WOS: 000322939700016 {[B8]}

[G95] A.Z. El Dein: „Effect of the Variation of the Charge Distribution Along Multi-Overhead Transmission Lines' Conductors on the Calculation Method of Ground Surface Electric Field”, *International Journal Of Electrical Power & Energy Systems*, ISSN: 0142-0615, vol. 51, pp. 255-264, **2013**. Doi: [10.1016/j.ijepes.2013.03.011](https://doi.org/10.1016/j.ijepes.2013.03.011) WOS: 000318837000027 {[B8],[B11]}

[G96] L. Dărăbant, M. Crețu & A. Dărăbant: „Magnetic Stimulation of the Spinal Cord: Experimental Results and Simulations”, *IEEE Transactions On Magnetics*, ISSN: 0018-9464, vol. 49, no. 5, pp. 1845-1848, **2013**. Doi: [10.1109/TMAG.2013.2242877](https://doi.org/10.1109/TMAG.2013.2242877) WOS: 000319076200075 {[B11],[D25]}

[G97] R.A. Radu, D.O. Micu, A. Ceclan, C. Bărbulescu & S. Kilyeni: „Recent Advances on the Influence of Power Transformers Inrush Current over the Optimization of Medium Voltage Feeder Protection”, *48th International Universities' Power Engineering Conference (UPEC)*, Dublin, Ireland, September 2-5, **2013**. DOI: [10.1109/UPEC.2013.6714928](https://doi.org/10.1109/UPEC.2013.6714928) WOS: 000333750100076 {[D15]}

[G98] D.P. Cristian, A. Simo, C. Bărbulescu & S. Kilyeni: „PSO based Transmission Network Expansion”, *48th International Universities' Power Engineering Conference (UPEC)*, Dublin, Ireland, September 2-5, **2013**. DOI: [10.1109/UPEC.2013.6714958](https://doi.org/10.1109/UPEC.2013.6714958) WOS: 000333750100106 {[D21]}

[G99] M. Izadi, M.Z.A. Ab Kadir, M.T Askari, & M.Hajikhani: „Evaluation of Lightning Current using Inverse Procedure Algorithm”, *International Journal of Applied Electromagnetics and Mechanics*, ISSN: 1383-5416, vol. 41, no. 3, pp. 267-278, **2013**. DOI: [10.3233/JAE-121611](https://doi.org/10.3233/JAE-121611) WOS: 000316719400006 {[D28]}

[G100] D.P. Cristian, R. Teslovan, C. Bărbulescu, S. Kilyeni & A. Simo: „PSO based OPF Algorithm”, *EuroCon*, ISBN: 978-1-4673-2232-4, pp. 1235-1243, Zagreb, Croatia, July 01-04, **2013**. Doi: [10.1109/EUROCON.2013.6625138](https://doi.org/10.1109/EUROCON.2013.6625138) WOS: 000343135600180 {[B11]}

[G101] L. Dărăbant, M. Crețu & C. Aciu: „Analysis of the Activation of Spinal Nerves during Magnetic Stimulation of the Lumbar Area”, *8th International Symposium on Advanced Topics in Electrical Engineering (ATEE)*, ISBN: 978-1-4673-5979-5, Bucharest, Romania, May 23-25, **2013**. WOS: 000332928500082 {[B8],[D25]}

[G102] M. Crețu, R.V. Ciupa & T. Crețu: „Assessment of the Electric Field Generated by Multilayered Coils during MS”, *8th International Symposium on Advanced Topics in Electrical Engineering (ATEE)*, ISBN: 978-1-4673-5979-5, Bucharest, Romania, May 23-25, **2013**. WOS: 000332928500090 {[D25]}

[G103] O. Pop, A. Taut, A. Grama & E. Ceuca: „Analysis and Simulation of LCLR Converters”, *36th International Spring Seminar on Electronics Technology (ISSE)*, ISBN: 978-1-4799-0036-7, pp. 286-289, Alba Iulia, Romania, May 8-12, **2013**. Doi: [10.1109/ISSE.2013.6648258](https://doi.org/10.1109/ISSE.2013.6648258) WOS: 000374113900054 {[B8]}

[G104]D.O Micu & G. De Mey: „Green's Function of Potential Problems in Lens Shaped Geometries”, *Revue Roumain des Sciences Techniques, Serie Electrotechnique et Energetique*, ISSN: 0035-4066, vol. 58, no. 1, pp.35-42, **2013**. WOS: 000319367500004 {[B10]}

[G105]M. Izadi, M.Z.A Ab Kadir, C. Gomes, V. Cooray & J. Shoene: „Evaluation of Lightning Current and Velocity Profiles along Lightning Channel using Measured Magnetic Flux Density”, *Progress in Electromagnetics Research*, ISSN: 1559-8985, vol. 130, pp. 473-492, **2012**. DOI: [10.2528/PIER12060612](https://doi.org/10.2528/PIER12060612) WOS: 000308582900023 {[D28]}

H. Citations in International Data Bases

[H1] **B. Chesca**, V. Ioniță, L. Petrescu, E. Cazacu & M.C. Petrescu: „Integrated Approach in Designing Photovoltaic Power Plant”, *9th International Conference on Modern Power Systems (MPS)*, ISBN: 978-1-6654-3382-2, Cluj-Napoca, Romania, June 16-17, **2021**. DOI: [10.1109/MPS52805.2021.9492634](https://doi.org/10.1109/MPS52805.2021.9492634) (IEEEXplore) (Posibil WOS) {[B6],[B8]}

[H2] **W. Zhang**, G.J. Li, Z.Q. Zhu, B. Ren & M. Michon: „Optimization of Modular SPM Machines Considering Stator Modularity”, *IEEE International Electric Machines & Drives Conference (IEMDC)*, ISBN: 978-1-6654-0510-2, Hatford, USA, May 17-20, **2021**. DOI: [10.1109/IEMDC47953.2021.9449609](https://doi.org/10.1109/IEMDC47953.2021.9449609) (IEEEXplore) {[B4]}

[H3] K. Bouallag, R. Djekidel & S.A. Bessedik: „Optimization of Induced Voltage on Buried Pipeline from HV Power Lines using Grasshopper Algorithm (GOA)”, *Diagnostyka*, ISSN: 1641-6414, vol. 22, no. 2, pp. 105-115, April, **2021**. DOI: [10.29354/DIAG/138719](https://doi.org/10.29354/DIAG/138719) (Scopus) {[B6]}

[H4] M. Al-Gabalawy, M.A. Mostafa & A.S. Hamza: „Design of Distributed Fuzzy Logic Controllers for Controlling the AC Corrosion in the Metallic Pipelines due to the OHTLs”, *Egyptian Journal of Petroleum*, ISSN: 1110-0621, vol 29, no. 3, September, **2020**. DOI: [10.1016/j.ejpe.2020.09.001](https://doi.org/10.1016/j.ejpe.2020.09.001) (Scopus) {[B6]}

[H5] P. Singh, S. Ghosh, M. Saraf & R. Nayak: „A Survey Paper on Identifying Key Performance Indicators for Optimizing Inventory Management System and Exploring Different Visualization Tools”, *4th International Conference on Intelligent Computing and Control Systems (ICICCS)*, ISBN: 978-1-7281-4876-2, Madurai, India, May 13-15, **2020**. DOI: [10.1109/ICICCS48265.2020.9121036](https://doi.org/10.1109/ICICCS48265.2020.9121036) (IEEEXplore) {[C5]}

[H6] R. Ismail, A. Hasibuan, M. Isa, F. Abdurrahman & N. Islami: „Mitigation of High Voltage Induction Effect on ICCP System of Gas Pipelines: a Field Case Study”, *TELKOMNIKA Telecommunication, Computing, Electronics and Control*, ISSN: 1693-6930, vol. 17, no. 6, **2019**. DOI: [10.12928/telkomnika.v17i6.12493](https://doi.org/10.12928/telkomnika.v17i6.12493) (Scopus) {[B6]}

[H7] S. Vornicu, E. Lunca & A. Salceanu: „ANSYS Maxwell Finite Element Model for 2D Computation of the Magnetic Field Generated by Overhead High-Voltage Power Lines”, *International Conference on Electromechanical and Energy Systems (SIELMEN)*, ISBN: 978-1-7281-4010-0, October 9-11, **2019**. DOI: [10.1109/SIELMEN.2019.8905807](https://doi.org/10.1109/SIELMEN.2019.8905807) (IEEEXplore) {[C15]}

[H8] C. Wang, X. Liang & F. Freschi: „Factors Affecting Induced Voltages on Underground Pipelines due to Inductive Coupling with Nearby Transmission Lines”, IEEE Industry Applications Society Annual Meeting, eISSN: 2576-702X, September 29 - October 3, **2019**. DOI: [10.1109/IAS.2019.8912428](https://doi.org/10.1109/IAS.2019.8912428) (IEEEXplore) {[B11]}

[H9] A. Verm & I. Verm: „Use of Artificial Neural Network in Design of Fly Ash Blended Cement Concrete Mixes”, *International Journal of Recent Technology and Engineering (IJRTE)*, ISSN: 2277-3878, vol. 8, no. 3, pp. 4222-4233, September, **2019**. DOI: [10.35940/ijrte.C5146.098319](https://doi.org/10.35940/ijrte.C5146.098319) (Scopus) {[C6]}

[H10] A. Popoli, L. Sandrolini & A. Cristofolini: „Finite Element Analysis of Mitigation Measures for AC Interference on Buried Pipelines”, *IEEE International Conference on Environment and Electrical Engineering and IEEE Industrial and Commercial Power Systems Europe (EEEIC / I&CPS Europe)*, eISBN: 978-1-7281-0653-3, Genova, Italy, June 11-14, **2019**. DOI: [10.1109/EEEIC.2019.8783843](https://doi.org/10.1109/EEEIC.2019.8783843) (IEEEXplore) {[B6]}

[H11] T. Leuca, S. Coman, N.D. Trin, L. Bandici, M. Codrean & M. Perte: „Neural Network Modeling of a Drying Process in Radio Frequency Field”, *15th International Conference on Engineering of Modern Electric Systems (EMES)*, eISBN: 978-1-7281-0773-8, Oradea, Romania, June 11-13, **2019**. DOI: [10.1109/EMES.2019.8795090](https://doi.org/10.1109/EMES.2019.8795090) (IEEEXplore) {[B10],[C30],[D26]}

[H12] I. Naghiu, T.O. Gal, R.D. Sebesan, G. Gabor, L. Copil & C. Vancea „Extracting Essential Oils from the Rosehips in the Microwave Field”, *15th International Conference on Engineering of Modern Electric Systems (EMES)*, eISBN: 978-1-7281-0773-8, Oradea, Romania, June 11-13, **2019**. DOI: [10.1109/EMES.2019.8795209](https://doi.org/10.1109/EMES.2019.8795209) (IEEEXplore) {[C30]}

[H13] I. Naghiu, C.E. Gordan, I.M. Gordan, O.C. Novac, L. Copil & C. Vancea „Extraction of Volatile Pumpkin Oils through Cold Pressing versus Microwave Field -Features, Composition and Differences”, *15th International Conference on Engineering of Modern Electric Systems (EMES)*, eISBN: 978-1-7281-0773-8, Oradea, Romania, June 11-13, **2019**. DOI: [10.1109/EMES.2019.8795099](https://doi.org/10.1109/EMES.2019.8795099) (IEEEXplore) {[C30]}

[H14] G. Dushimimana, P. Simiyu, V. Ndayishimiye, E. Niringiyimana & S. Bikorimana: „Induced Electromagnetic Field on Underground Metal Pipelines Running Parallel to nearby High Voltage AC Power Lines”, *4th International Conference on Sustainable and Renewable Energy Engineering (ICSREE 2019)*, Beijing, China, May 11-13, published in *E3S Web Conferences*, eISSN: 2267-1242, **2019**. DOI: [10.1051/e3sconf/201910702004](https://doi.org/10.1051/e3sconf/201910702004) (Scopus) {[B6],[B9],[C32],[D16],[E9]}

[H15] L. Radermacher, D. Lingvay, A.M. Bors, N.O. Nicula Butoi & D. Marin: „Sustainable and Safe in Exploitation of Gas Networks. Part 2. Stress Factors of Metallic Pipelines”, *EEA - Electrotehnica, Electronica, Automatica*, ISSN: 1582-5175, vol. 7, no. 1, pp. 68-75, **2019**. (Scopus) {[B6], [C18], [C19], [C22]}

[H16] K.B. Adedeji, A.A. Ponnle, B.T. Abe, A.A. Jimoh, A.M Abu-Mahfouz & Y. Hamam: „A Review of the Effect of AC/DC Interference on Corrosion and Cathodic Protection Potentials of Pipelines”, *International Review of Electrical Engineering*, ISSN: 1827-6660, vol. 13, no. 6, pp. 495-508, **2018**. DOI: [10.15866/iree.v13i6.15766](https://doi.org/10.15866/iree.v13i6.15766) (Scopus) {[B6]}

[H17] R. Phalavi, M.A. Salam, Q.M. Rahman, F. Wen, S.P. Ang, O. Malik, S. Hasan & W. Voon: „Induced Voltage and Current Estimation on Pipelines near High Voltage Transmission Lines”, *7th Brunei International Conference on Engineering and Technology (BICET)*, eISBN: 978-1-83953-002-9, Bandar Seri Begawan, Brunei, November 12-14, **2018**. Doi: [10.1049/cp.2018.1536](https://doi.org/10.1049/cp.2018.1536) (IEEEExplore) {[D16]}

[H18] M. Arhip-Calin, I Tristiu & S. Ganatsios: „Analysis of Energy Efficient Solutions for Electric Transportation of Smart Cities”, *International Symposium on Fundamentals of Electrical Engineering (ISFEE)*, eISBN: 978-1-5386-7212-9, Bucharest, Romania, November 1-3, **2018**. Doi: [10.1109/ISFEE.2018.8742462](https://doi.org/10.1109/ISFEE.2018.8742462) (IEEEExplore) {[C31]}

[H19] Y. Xia, H. Jiang, X. Yi, Z. Wen & Y. Chen: „Parameter Optimization of Hybrid Excitation Permanent Magnet Synchronous Motor”, *21st International Conference on Electrical Machines and Systems (ICEMS)*, Jeju, South Korea, October 7-10, **2018**. DOI: [10.23919/ICEMS.2018.8549262](https://doi.org/10.23919/ICEMS.2018.8549262) (IEEEExplore) {[B4]}

[H20] K.B. Adedeji, A.A. Ponnle, B.T. Abe, A.G.A Jimoh, A.M. Abu-Mahfouz & Y. Haman: „AC Induced Corrosion Assessment of Buried Pipelines near HVTLs: A Case Study of South Africa”, *Progress in Electromagnetics Research B*, ISSN: 1937-6472, vol. 81, pp. 45-61, **2018**. DOI: [10.2528/PIERB18040503](https://doi.org/10.2528/PIERB18040503) (Scopus) {[B6]}

[H21] X. Yu, S. Ergan: „A Data-Driven Framework to Estimate Saving Potential of Buildings in Demand Response Events”, *35th International Symposium on Automation and Robotics in Construction and International AEC/FM Hackathon: The Future of Building Things (ISARC)*, Berlin, Germany, July 20-25, **2018**. {[C10]}

[H22] H. Benbouhenni: „Five-Level DTC with 12 Sectors of Induction Motor Drive using Neural Networks Controller for Low Torque Ripple”, *Acta Electrotechnica et Informatica*, ISSN: 1335-8243, vol. 18, no. 2, pp. 61-66, June **2018**. DOI: [10.15546/aei-2018-0018](https://doi.org/10.15546/aei-2018-0018) (DOAJ, EBSCO) {[B10]}

[H23] L. Coelho, V.H. Ferreira, G. Sotelo & A. Lima: „Prediction of Electric Power Systems Influences On Pipeline Systems Using Artificial Neural Networks”, *Simposio Brasileiro de*

Sistemas Eletricos (SBSE), eISBN: 978-1-5386-3363-2, Niteroi, Brazil, May 12-16, **2018**. DOI: [10.1109/SBSE.2018.8395625](https://doi.org/10.1109/SBSE.2018.8395625) (IEEEExplore) {[C35]}

[H24] H. Benbouhenni: „Seven-Level Direct Torque Control of Induction Motor Based on Artificial Neural Networks with Regulation Speed Using Fuzzy PI Controller”, *Iranian Journal of Electrical and Electronic Engineering*, ISSN: 1735-2827, vol. 14, no. 1, pp. 85-94, March **2018**. DOI: [10.22068/IJEEE.14.1.85](https://doi.org/10.22068/IJEEE.14.1.85) (Scopus) {[B10]}

[H25] A. Cristofolini, A. Popoli, & L. Sandrolini: „A Comparison between Carson's Formulae and a 2D FEM Approach for the Evaluation of AC Interference Caused by Overhead Power Lines on Buried Metallic Pipelines”, *Progress in Electromagnetics Research C*, ISSN: 1937-8718, vol. 79, pp. 39-48, **2017**. DOI: [10.2528/PIERC17080501](https://doi.org/10.2528/PIERC17080501) (Scopus) {[B6]}

[H26] D. Marin, V. Stănoi, G. Oprina, I. Badea, T. Nicoară, I. Pătru & A.T. Matei: „Behaviour of Mineral Oils Compared to Vegetable Oils in Electric Transformers (Comportarea în Transformatoarele Electrice a Uleiurilor Minerale în Comparatie cu Uleiurile Vegetale)” *Electrotehnica, Electronica, Automatica (EEA)*, ISSN 1582)5175, vol. 65, no. 4, pp. 101-107, **2017**. (Scopus) {[B8],[B9]}

[H27] X. Li, R. Huang, J. Yu & X. Zhu: „Interference Analysis of Pipeline Due to a Nearby High Voltage Transmission Line in Different Locations”, *2nd International Conference on Artificial Intelligence and Engineering Applications (AIEA)*, ISBN: 978-1-60595-485-1, pp. 397-401, September 23-24, **2017**. DOI: [10.12783/dtce/aiea2017/14959](https://doi.org/10.12783/dtce/aiea2017/14959) (Google Scholar) {[B9]}

[H28] I. Lingvay, O. Tănăsescu, L. Radermacher, A.T. Matei, D. Lingvay & A.M. Borș: „High Performance Electrical Insulation Elements for Gas Installations” (Elemente de Izolare Electrică Performante Destinate Instalațiilor de Gaze), *EEA - Electrotehnica, Electronica, Automatica*, ISSN: 1582-5175, vol. 65, no. 3, pp. 5-10, July, **2017**. (Scopus) {[B6],[B7],[B8],[B9],[C18],[C21],[C22],[C26],[C29],[C32]}

[H29] C. Mateescu, A. Voina, N. Butoi, M. Lungulescu, A.M. Luchian & D. Lipcinski: „Analysis of the Electric Field Influence on the Algal Biomass Growth with Applications in Biotechnologies” (Analiza influenței câmpului electric asupra dezvoltării biomasei algale cu aplicații în biotehnoologii), *EEA - Electrotehnica, Electronica, Automatica*, ISSN: 1582-5175, vol. 65, no. 3, pp. 117-122, **2017**. (Scopus) {[D11]}

[H30] C. Mateescu, A. Caramitu, D. Marin & N. Butoi: „Methanogens Stimulation in Electric Fields for Frequencies in Range of 0.1-500 Hz” (Stimularea Metanogenelor în Câmpuri Electrice cu Frecvențe între 0,1-500 Hz), *EEA - Electrotehnica, Electronica, Automatica*, ISSN: 1582-5175, vol. 65, no. 1, pp. 67-71, **2017**. (Scopus) {[D11]}

[H31] J. Dabkowski: „The Evolution of AC Predictive and Mitigation Software”, *NACE - International Corrosion Conference Series*, ISBN: 978-151084034-8, New Orleans, USA, March 26-30, **2015**. (Scopus) {[B9]}

[H32] T.A. Papadopoulos, A. Chrysochos, D.I. Doukas, G.K. Papagiannis & D.P. Labridis: „Induced Voltages and Currents: Overview and Evaluation of Simulation Models and Methodologies”, *10th Mediterranean Conference on Power Generation, Transmission, Distribution and Energy Conversion, (MedPower)*, Belgrade, Serbia, November 06-09, **2016**. DOI: [10.1049/cp.2016.1023](https://doi.org/10.1049/cp.2016.1023) (Scopus, IEEEXplore) {[B8]}

[H33] M. Crețu, L. Dărăbant & A. Răcășan: „Modelling the Passive behavior of the Nervous Cell. Influence of Electric Parameters Variation”, *IFMBE Proceedings*, ISSN: 1680-0737, vol. 59, pp. 159-164, 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_36](https://doi.org/10.1007/978-3-319-52875-5_36) (Scopus) {[C26]}

[H34] N. Wang, L. Zhang, Y. Shi, R. Lai, H. Huang & Q. Xie: „Simulation Study of Electromagnetic Influence from UHVDC Transmission Line on Buried Oil/Gas Pipeline”, *Gaoya Dianqi/High Voltage Apparatus*, ISSN: 1001-1609, vol. 52, no. 10, pp. 124-129, October, **2016**. DOI: [10.13296/j.1001-1609.hva.2016.10.021](https://doi.org/10.13296/j.1001-1609.hva.2016.10.021) (Scopus) {[B8], [D13]}

[H35] F. Cao, X. Meng, Y. Liao, R. Li & B. Zhang: „Circuit Model and Application for Influence of DD Ground Electrode on Buried Metal Pipelines”, *Dianwang Jishu/Power System Technology*, ISSN: 1000-3673, vol. 40, no. 10, pp. 3258-3264, October, **2016**. DOI: [10.13335/j.1000-3673.pst.2016.10.046](https://doi.org/10.13335/j.1000-3673.pst.2016.10.046) (Scopus) {[D15]}

[H36] M. Izadi, M.Z.A. Ab-Kadir, S.C. China, J. Jasni & C. Gomes: „Effect of Parallel 275kV Transmission Line with Oil Pipeline on Electromagnetic Field Calculation”, *CIGRE Session 46*, Paris, France, August 21-26, 2016. (Scopus) {[B8],[C26]}

[H37] D. Lipcinski, D. Lingvay, E. Radu & A. Voina: „Extremely Low Frequency Controlled Voltage Supply for Microbiological Studies”, *Electrotehnica, Electronica, Automatica (EEA Jurnal)*, ISSN: 1582-5175, vol. 64, no. 1, pp. 89-96, March, **2016**. (Scopus) {[D11]}

[H38] A.A. Ponnle, K. Adedeji, B.T. Abe & A.A Jimoh: „Variation in Phase Shift of Multi-Circuits HVTLs Phase Conductor Arrangements on the Induced Voltage on Buried Pipeline: A Theoretical Study”, *Progress in Electromagnetics Research B*, ISSN: 1937-6472, vol. 69, pp. 75-86, **2016**. DOI: [10.2528/PIERB16062308](https://doi.org/10.2528/PIERB16062308) (Scopus) {[B6],[B8]}

[H39] J. Zhang, X. Wen, W. Li, H. Lu & Y. Liu: „Analysis of Electromagnetic Interference Effects on Gas Pipelines due to a Nearby Parallel UHV Transmission Line”, *Lecture Notes in Electrical Engineering*, ISSN: 1876-1100, vol. 334, pp. 441-447, **2015**. DOI: [10.1007/978-3-319-13707-0_48](https://doi.org/10.1007/978-3-319-13707-0_48) (Scopus) {[C31]}

[H40] E. Radu, D. Lipcinski, N. Tănase & I. Lingvay: „The Influence of the 50 Hz Electric Field on the Development and Maturation of *Aspergillus Niger*” (Influența Câmpului Electric de 50Hz asupra Dezvoltării Culturilor de *Aspergillus Niger*), *Electrotehnica, Electronica, Automatica (EEA Jurnal)*, ISSN: 1582-5175, vol. 63, no. 3, pp. 68-74, **2015**. (Scopus) {[D11]}

[H41] D. Kemp, D. Arellano & S. Finneran: „Examination of Grounding Methodologies for HVAC Induction on Buried Pipelines”, *NACE - International Corrosion Conference Series*, ISSN: 0361-4409, Dallas, USA, March 15-19, **2015**. (Scopus) {[B6]}

[H42] B. Micu, C. Micu, A. Andercou & N. Constantea: „Artificial intelligence applied in diagnostic and treatment of Dukes C colorectal cancer”, *IFMBE Proceedings*, vol. 44, pp. 57-62, *International Conference on Advancements of Medicine and Health Care through Technology, (MEDITECH)*, ISBN: 978-331907652-2, Cluj-Napoca, Romania, June 5-7, **2014**. Doi: [10.1007/978-3-319-07653-9_12](https://doi.org/10.1007/978-3-319-07653-9_12) (Scopus) {[B10],[B11]}

[H43] M. Nassereddine, J. Rizk, A. Hellany & M. Nagrial: „AC Interference Study on Pipeline: OHEW Split Factor Impacts on the Induced Voltage”, *Journal of Electrical Engineering*, ISSN: 1582-4594, vol. 14, no. 1, pp. 132-137, **2014**. ([link](#)) (Scopus) {[B11]}

[H44] R. Feldt, M. Staron, E. Hult & T. Liljegen: „Supporting Software Decision Meetings: Heatmaps for Visualising Test and Code Measurements”, *39th EUROMICRO Conference on Software Engineering and Advanced Applications (SEAA)*, ISBN: 978-076955091-6, pp. 62-69, Santander, Spain, September 4-6, **2013**. Doi: [10.1109/SEAA.2013.61](https://doi.org/10.1109/SEAA.2013.61) (IEEEExplore, Scopus) {[B6]}

[H45] R. Rizzo: „Direct Current Smart Micro-grids for Distributed Generation with Renewable Sources”, *Leonardo Electronic Journal of Practices and Technologies*, ISSN: 1583-1078, vol. 12, no. 22, pp. 27-42, **2013**. (Scopus, DOAJ) {[D20],[B11]}

[H46] A. Andreotti, D. Assante, R. Rizzo & A. Pierno: „Characteristic Impedance of Periodically Grounded Power Lines”, *Leonardo Electronic Journal of Practices and Technologies*, ISSN: 1583-1078, vol. 12, no. 22, pp. 71-82, **2013**. (Scopus, DOAJ) {[B11],[D20]}

[H47] O. Coufal: „On Resistance and Inductance of Solid Conductors”, *Journal of Engineering*, ISSN: 2314-4904, vol. 2013, Article ID: 526072, **2013**. DOI: [10.1155/2013/526072](https://doi.org/10.1155/2013/526072) (Scopus) {[B11]}

[H48] J. Swaminathan Suvikar Samraj & J. Sivadasan: „Investigation of Electromagnetic Interference due to High Voltage Line”, *International Conference on Circuits, Power and Computing Technologies (ICCPCT)*, ISBN: 978-1-4673-4921-5, pp. 310-314, Nagercoil, India, March 20-21, **2013**. DOI: [10.1109/ICCPCT.2013.6528980](https://doi.org/10.1109/ICCPCT.2013.6528980) (IEEEExplore, Scopus) {[B11]}

[H49] T.O. Cujbă & C.D. Popa: „Considerations regarding Application of the Fourier theorem to Numerical Relays of Power Transformers”, *Journal of Electrical and Electronics Engineering*, ISSN: 1844-6035, vol. 4, no. 1, pp. 43-48, **2011**. (Scopus, EBSCO) {[D30]}

[H50] A. Seffrin & A. Biedermann: „Cellular-Array Implementations of Bio-Inspired Self-Healing Systems: State of the Art and Future Perspectives”, *Lecture Notes in Electrical Engineering*, ISBN: 978-364216766-9, vol. 78, pp. 151-170, **2010**. DOI: [10.1007/978-3-642-16767-6_8](https://doi.org/10.1007/978-3-642-16767-6_8). (Scopus) {[C38]}

I. Citations

[I1] M.C. Jimerez: „Consideraciones para la incorporación de la Inteligencia Artificial en un programa de pregrado de Ingeniería Eléctrica” (en. „Considerations for Introducing Artificial Intelligence in an Electrical Engineering Undergraduate Program”), *Actualidades Investigativas en Educación*, ISSN: 1409-4703, vol. 21, no. 2, **2021**. Doi: [10.15517/aie.v21i2.44893](https://doi.org/10.15517/aie.v21i2.44893) {[B10]}

[I2] A. Popoli, L. Sandrolini & A. Crsofolini: „Reduction in the Electromagnetic Interference Generated by AC Overhead Power Lines on Buried Metallic Pipelines with Screening Conductors”, *Electricity*, ISSN: 2673-4826, vol. 2, no. 3, pp. 316-329, **2021**. Doi: [10.3390/electricity2030019](https://doi.org/10.3390/electricity2030019) {[B6]}

[I3] N.V. Buyakova¹, A.V. Kryukov, D.A. Seredkin, L.V. Thao & K.V. Suslov: „Influence of Spatial Arrangement of Wires on Electromagnetic Ecology near High-Voltage Power Transmission Lines at Railway Station”, *IOP Conference Series: Materials Science and Engineering*, ISSN: 1757-899X, vol. 1151, art. no. 012039, **2021**, from *The 2020 International Conference on Transport and Infrastructure of the Siberian Region (SibTrans 2020)*, Irkutsk, Russia, November 11-13, **2020**. Doi: [10.1088/1757-899X/1151/1/012039](https://doi.org/10.1088/1757-899X/1151/1/012039) {[C15]}

[I4] M.B. Milajerdi & F. Behnamfar: „Soil-structure interaction analysis using neural networks optimised by genetic algorithm”, *Geomechanics and Geoengineering*, ISSN: 1748-6025, June, **2021**. Doi: [10.1080/17486025.2021.1940313](https://doi.org/10.1080/17486025.2021.1940313) {[B5],[C34]}

[I5] K. Bouallag, R. Djedidel & S.A. Bessedik: „Optimization of induced voltage on a buried pipeline from HV power lines using grasshopper algorithm (GOA)”, *Diagnostyka*, ISSN: 1641-6414, vol. 22, no. 2, pp. 105-115, April, **2021**. Doi: [10.29354/diag/138719](https://doi.org/10.29354/diag/138719) {[B6]}

[I6] E. Lunca, B.C. Neagu & S. Vornicu: „Finite Element Analysis of Electromagnetic Fields Emitted by Overhead High-Voltage Power Lines”, in *Numerical Methods for Energy Applications*, Ed. Springer, ISBN: 978-3-030-62190-2, pp. 795-821, Singapore, March, **2021**. Doi: [10.1007/978-3-030-62191-9_29](https://doi.org/10.1007/978-3-030-62191-9_29) {[C15]}

[I7] P. Singh, S. Ghosh, M. Saraf & R. Nayak: „Inventory Optimization for Cognitive Demand Scheduler Using Data Analytics”, in *Data Intelligence and Cognitive Informatics. Algorithms for Intelligent Systems*, Ed. Springer, ISBN: 978-981-15-8529-6, pp. 479-494 Singapore, January, **2021**. {[C5]}

[I8] S. Gaya, O. Sokunbi & I.O. Habiballa: „Recent Review on Load/Power Flow Analysis”, *International Journal of Scientific & Engineering Research (IJSER)*, ISSN: 2229-5518, vol. 11, no. 12, pp. 129-133, December, **2020**. {[C13],[C14]}

[I9] K. Voitik: *Floor Insulation Effect On Heat Losses And Building Energy Efficiency In Large Hall-Type Buildings*, Master’s degree thesis, Tallin University of Technology, Tallin, Estonia, **2020**. {[C6]}

[I10] M.R. Muller, G. Gaio, E.M. Carreno, A.D.E. Lotufo & L.A. Teixeira: „Electrical Load Forecasting in Disaggregated Levels using Fuzzy ARTMAP Artificial Neural Network and Noise Removal By Singular Spectrum Analysis”, *SN Applied Sciences*, vol. 2, art. no. 1218, June, **2020**. DOI: [10.1007/s42452-020-2988-5](https://doi.org/10.1007/s42452-020-2988-5) {[C5]}

[I11] Y. Helmy, O. Emam, A. Khedr & M. Bahloul: „A Survey on Effect of KPIs in Higher Education based on Text Mining Techniques”, *International Journal of Scientific and Engineering Research (IJSER)*, ISSN: 2229-5518, vol. 11, no. 3, pp. 1408-1414, March, **2020**. ([link](#)) {[C5]}

[I12] L.E. Rueda, J.E. Duque, E. Vanegas & E. Gomez: „Computation of Electromagnetic Fields for 220 kV Power Line in Cartagena de Indias”, *6th Workshop on Engineering Applications (WEA 2019)*, ISBN: 978-3-030-31018-9, pp. 616-627, Santa Marta, Colombia, October 16-18, **2019**. DOI: [10.1007/978-3-030-31019-6_52](https://doi.org/10.1007/978-3-030-31019-6_52) {[C15]}

[I13] A. Kumar: „Overview of Electromagnetic Interference Issues in Aircraft”, *International Journal of Students' Research in Technology & Management*, ISSN: 2321-2543, vol. 6, no. 4, pp. 07-12, **2018**. Doi: [10.18510/ijstrtm.2018.628](https://doi.org/10.18510/ijstrtm.2018.628) {[A5]}

[I14] X. Li, R. Huang, J. Yu & X. Zhu: „Interference Analysis of Pipeline Due to a nearby High Voltage Transmission Line in Different Locations”, *2nd International Conference on Artificial Intelligence and Engineering Applications (AIEA 2017)*, ISBN: 978-1-60595-485-1, pp. 397-401, Guilin, China, September 23-24, **2017**. DOI: [10.2528/PIERB1610304](https://doi.org/10.2528/PIERB1610304) {[B9]}

[I15] Z. Hussain, W. Hussain, R. Ullah & Z. ud Din: „Load Flow Analysis of 132/11 kV Substation using ETAP: A Case Study”, *Sarhad University International Journal of Basic and Applied Sciences*, ISSN: 2307-552X, vol. 5, no. 1, pp. 40-48, **2017**. ([link](#)) {[C17]}

[I16] M. Ouadah, O. Touhami, R. Ibtouen, A. Bouzida, S. Bouyegh, D. Allou & A. Haddad: „Pipelines Corrosion Due to the Electromagnetic Pollution caused by the High Voltage Power Lines”, *Proceedings of Engineering and Technology (PET)*, vol. 17, pp. 97-101, Special Issue: 4^{eme} Conference Internationale des Energies Renouvelables (CIER-2016), Hammamet, Tunisia, December 20-22, **2016**. ([link](#)) {[B6]}

[I17] I. Lingvay: „Electromagnetic Pollution of The Biosphere. The Biological Effects of 0.5 ÷ 200 Hz Electromagnetic Fields”, *17th International Conference on Energetics and Electrical Engineering (ENELKO)*, pp. 78-83, Cluj-Napoca, Romania, October 6-9, **2016**. {[D11]}

[I18] G. Durrenberger: „Kriechströme. Stand des Wiessnes (Stray Voltage – A Literature Review)”, Forschungsstiftung Strom und Mobilkommunikation, Zurich, Switzerland, March **2016**. DOI: [10.13140/RG.2.1.2312.8722](https://doi.org/10.13140/RG.2.1.2312.8722) {[C28],[D13]}

[I19] N.M.K. Abdel-Gawad, A.Z. El Dein & M. Magdy: „Calculation of Induced Voltages on Buried Gas Pipeline Near to H.V.T.L in Multi-Layer Soil”, *17th International Middle East Power System Conference (MEPCON)*, Mansoura, Egypt, December 15-17, **2015**. ([link](#)) {[B6]}

[I20] M.W. Ahmed: „Estimation of Real Traffic Radiated Emissions from Electric Vehicles in terms of the Driving Profile using Neural Network”, PhD thesis, University of Alcala, Higher Polytechnics School, Madrid, Spain, 2013. ([link](#)) {[D28]}

Date: 14.01.2022

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