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Teza de Doctorat

A. Muresan: „TEHNICI DE MODELARE NUMERICĂ BAZATE PE TEORIA CÂMPULUI ELECTROMAGNETIC APLICATE COMPORTAMENTULUI TRANZITORIU AL SUBSTAȚIILOR ÎNCAPSULATE ÎN GAZ” conducător științific *Prof.dr.ing.* Dan Doru Micu, Facultatea de Inginerie Electrică, Universitatea Tehnică din Cluj-Napoca, susținută în Decembrie 2020.

A. Lucrări publicate în reviste ISI

[A1] I. Kereszy, V. Rakov, L. Czumbil, **A. Mureșan**, Z. Ding, D.D. Micu & V. Cooray: „Energetic Radiation from Subsequent-Stroke Leaders: The Role of Reduced Air Density in Decayed Lightning Channels”, *Applied Sciences*, ISSN: 2076-3417, vol. 12, no. 15, art. no. 7520, July, 2022. Doi: [10.3390/app12157520](https://doi.org/10.3390/app12157520), WOS:000840158700001

[A2] **A. Mureșan**, L. Czumbil, A. Polycarpou, H. Nouri, R. Andolfato & D.D. Micu: „Mitigation of Transient Ground Potential Rise in Gas Insulated Substations during Very Fast Transient Overvoltage”, *Electric Power Systems Research*, ISSN: 0378-7796, vol. 207, art. no. 107824, June, 2022. Doi: [10.1016/j.epsr.2022.107824](https://doi.org/10.1016/j.epsr.2022.107824), WOS:000793768300001

[A3] **A. Mureșan**, 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

B. Lucrări științifice indexate ISI Proceedings

[B1] A. Mureșan, O. Fati, L. Czumbil, A. Ceclan, D.I. Jurj, R. Rizzo & D.D. Micu: „A Practical Approach to Mitigate the Harmonic Distorsion in a Microgrid, Case Study”, *20th International Conference on Harmonics and Quality of Power, (ICHQP)*, ISBN: 978-1-6654-1639-9, Naples, Italy, May 29 – June 01, 2022. DOI: [10.1109/ICHQP53011.2022.9808785](https://doi.org/10.1109/ICHQP53011.2022.9808785) WOS:000844604500106

[B2] D. Șteț, L. Czumbil, A. Ceclan, Ș. Cîrstea, A. Mureșan, D. Jurj, C. Mureșan, T. Farkas, L. Dărbant, M. Crețu, D.D. Micu & G.K. Papagiannis: „Educational and Training Program to Increase SME's Energy Efficiency Skills”, *56th International Universities Power Engineering Conference (UPEC)*, ISBN: 978-1-6654-4389-0, Middlesbrough, UK, August 31-September 3, 2021. DOI: [10.1109/UPEC50034.2021.9548263](https://doi.org/10.1109/UPEC50034.2021.9548263) WOS:000723608400112

[B3] 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) WOS:000941563300059

[B4] Ș.F. Braicu, L. Czumbil, D. Șteț, D.D. Micu, A. Ceclan, A. Mureșan, 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

C. Lucrări științifice indexate în Baze de Date Internaționale

[C1] Roxana-Valentina, Briscan & Denisa, Șteț & Levente, Czumbil & Ștefan, Cîrstea & Jurj, Dacian & Alexandru, Mureșan, “Empowering Energy Professionals: A Novel Educational and Training Program on Energy Transition Audits and Decarbonization” 400-405. 10.1109/EPEi63510.2024.10758039, 2024.

[C2] D. I. Jurj, D. D. Micu, A. G. Berciu, M. Lancrajan, L. Czumbil, A. Bende, B. A. Mitache, A. Mureșan, Extended Applied Data Cleaning Methods in Outlier Detection for Residential Consumer, *Carpathian Journal of Electrical Engineering*, vol. 17, no. 1, pp. 21-31, 2023.

[C3] D.I. Jurj, A.G. Berciu, A. Mureșan, M. Lăncrăjan, L. Czumbil & D.D. Micu: „Applied Data Cleaning Methods in Outlier Detection for Residential Consumer”, *10th International*

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[C4] **A. Mureșan**, L. Czumbil, A. Polycarpou, H. Nouri, R. Andolfato & D.D. Micu: „Novel Electromagnetic Field Theory Approach applied to Gas Insulated Substation Transient behaviour during Lightning Surge Impulse”, *12th Mediterranean Conference on Power Generation, Transmission, Distribution and Energy Conversion (MEDPOWER)*, ISBN: 978-1-83953-524-6, Nicosia, Cyprus, November 09-12, **2020**. DOI: [10.1049/icp.2021.1234](https://doi.org/10.1049/icp.2021.1234) (IEEE Xplore)

[C5] **A. Mureșan**, L. Czumbil, D.D. Micu & T.A. 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) (IEEE Xplore)

[C6] D. I. Jurj, D. D. Micu and **A. Muresan**, "Overview of Electrical Energy Forecasting Methods and Models in Renewable Energy," *2018 International Conference and Exposition on Electrical And Power Engineering (EPE)*, Iasi, Romania, **2018**, pp. 0087-0090, doi: 10.1109/ICEPE.2018.8559807.

[C7] **M. Alexandru**, D. D. Micu, J. D. Ioan and R. Andolfato, "Overview on computational methods of Gas Insulated Substation grounding gridanalysis," *2018 International Conference and Exposition on Electrical And Power Engineering (EPE)*, Iasi, Romania, **2018**, pp. 0081-0086, doi: 10.1109/ICEPE.2018.8559872.

D. Lucrări prezentate la Conferințe Internaționale neindexate

[D1] L. Czumbil, D.D. Micu, D. Șteț, H. Nouri & **A. Mureșan**: „Stability Analysis in Computational Problems Regarding Power Networks”, *EEUG Meeting, European EMTP-ATP Conference*, Cluj-Napoca, Romania, September 23-25, **2019**.

[D2] Hassan Nouri; **Alexandru Muresan**; Levente Czumbi; Dan Micu. Uncovering Gas Insulated Substation Transient Behaviours Using the Equivalent Cable Model. *Journal of Electronics and Electrical Engineering* **2023**, 99–105 -99–105.