

Dan Doru MICU, Full Professor

Faculty of Electrical Engineering, Technical University of Cluj-Napoca, Romania

📍 G. Baritiu, 26-28, Room 53, Cluj-Napoca, 400027, Cluj-Napoca, Romania

☎ + 40264401462 📠 + 40744191609

✉ Dan.Micu@ethm.utcluj.ro

🔗 <https://cmn.utcluj.ro/dan-doru-micu/>

https://www.researchgate.net/profile/Dan_Micu2

Scopus Author ID: **21834001900**; ORCID: **0000-0003-4921-7166**

UEFISCDI ID (UEF-ID): **U-1700-030M-3027**



SCIENTIFIC PUBLICATIONS

- **8** - International Research Projects (**5** Horizon 2020 Projects)
- **12** – National Research Projects
- **10** - Scientific books published in publishing houses with prestige (9 first author)
- **4** - Book chapters published in an international publishing house
- **266** - Scientific papers published:
 - **27** - ISI Thomson Journals Q1, Q2, Q3;
 - **49** - ISI Thomson Proceedings;
 - **38**- indexed in IEEExplore, Scopus
 - **152** - indexed in other data bases or published in Romanian B+Journals

PhD Thesis

Remarks upon the influence on high voltage lines on buried metallic pipelines, Technical University of Cluj-Napoca, OM no. 3876/19.05.2004

Habilitation thesis

Development of advanced analysis methods and numerical modeling dedicated tools applied in electrical engineering, Technical University of Cluj-Napoca, O.M. no. 623/6.11.2014

Research Projects

	RESEARCH PROJECTS OBTAINED THROUGH INTERNATIONAL COMPETITIONS	Project type
1	2	3
1.	Renewable Cogeneration and Storage Technologies Integration for energy Autonomous Buildings, 2019-2022 815301-RE-COGNITION, www.re-cognition-project.eu Director: Prof. Dr. Ing. Dan Doru Micu	H2020-LC-SC3-2018-2019-2020/H2020-LC-SC3-2018-RESTwoStages
2.	Generate Energy Efficient Acting and Results at Small & Medium Enterprises - 894356 - GEAR at SME, 2020-2023 Director: Prof. Dr. Ing. Dan Doru Micu https://gearatsme.eu	H2020-LC-SC3-EE-2019
3.	A holistic framework for Empowering SME's capacity to increase their energy efficiency, 2019-2022 847132-SMEmPower Efficiency, www.smempower.com Director: Prof. Dr. Ing. Dan Doru Micu	H2020-LC-SC3-2018-2019-2020/H2020-LC-SC3-EE-2018
4.	Demand Response in Blocks of Buildings 696114 - DR-BOB, 2016-2019, www.dr-bob.eu Director: Prof. Dr. Ing. Dan Doru Micu	H2020-EE-2014-2015/H2020-EE-2015-2-RIA
5.	Meeting the Energy Professionals Skills 649773 – MENS, 2015-2017, www.mens-nzeb.eu Director: Prof. Dr. Ing. Dan Doru Micu	H2020-EE-2014-2015/H2020-EE-2014-3-MarketUptake
6.	Enhancing the Transfer of Research and Development Methods in Energy-related Clusters from Norway to Romania EmPower Efficiency, 2016-2017 Director: Prof. Dr. Ing. Dan Doru Micu	SEE 28.407/26.05.2017 MarketUptake
7.	New analysis methods and simulation software for electromagnetic interference effects between high voltage power lines and underground metallic pipelines, 2001-2003 Director: Prof. Dr. Ing. Vasile Topa	BILA 2001/37
8.	Study of unbalanced systems under non-sinusoidal regime, 1998-2000 Director: Prof. Dr. Ing. Mircea Chindris	World Bank International Project, 1998/472

	RESEARCH PROJECTS OBTAINED THROUGH NATIONAL COMPETITIONS	Project type
1	2	3
9.	Modeling, prediction and design solutions, with maximum effectiveness, for reducing the impact of stray currents on underground metallic gas pipelines, 2010-2013. Director: Prof. Dr. Ing. Dan Doru Micu	CNCSIS TE 34/09.08.2010
10.	Optimized construction of electromagnetic devices based on electromagnetic field synthesis in inaccessible heterogeneous environments 2007-2008. Director: Prof. Dr. Ing. Dan Doru Micu	CNCSIS AT_224
11.	The impact of electromagnetic fields on anthropic ecosystems – ICEMECOS Director: Prof. Dr. Ing. Dan Doru Micu	CEEX, nr. X2C37/2006
12.	Theoretical and experimental research on the behavior of insulating materials in order to develop diagnostic studies and intelligent prediction procedures – MATELIZ, Project Manager: prof.dr. ing. Doina Gavrilă (Politehnica University of Bucharest);	CEEX, nr. 6856/2006
13.	Active and intelligent prediction and diagnostics procedures for building with a reinforced structures placed in a complex polluted environment – DIRECTOR, Project Manager: prof.dr. ing. Dorin Isoc (UTCN);	CEEX, nr. 136/2006
14.	The influence of electromagnetic fields on operational stability and performance of combustion installations, Project Manager: prof.dr. ing. Emil Simion (UTCN);	CNCSIS nr. 1279/2006
15.	Mathematical model to study the influence of AC electromagnetic pollution of underground metal gas pipelines, with or without a cathodic protection system, placed in the vicinity of transformer substations. Project Manager: prof. dr. ing. Emil Simion;	PN-II-ID-PCE-2007-1, nr. ID_1024
16.	Intelligent diagnosis and prediction system for preventing power cable damages – CABDIAG, Project Manager: ing. Carmen Lingvay (ICPE-CA Bucuresti)	PN-II-Nr. 22122/2008
17.	Microwave technologies used to improve the quality of sored agricultural seeds Project Manager: conf. dr. ing. Darie Soproni (University of Oradea)	PN-II nr. 51-082/2007

18.	3D Software to model the electromagnetic interference phenomena between high voltage power lines and underground metallic pipelines, under quasi-harmonic conditions, Phase II 2002: Development of a dedicated generalized mathematical model, Project Manager: prof. dr. ing. Vasile Țopa (UTCN).	CNCSIS nr. 33531/2002
19.	Prediction and analysis of electromagnetic interference phenomena created by electrified railway traction systems, Project Manager: prof.dr. ing. Emil Simion (UTCN), 2002-2003.	CNCSIS nr. 34970/2001
20.	Development and implementation of numerical methods for calculating the electrokinetic regime produced by eddy currents in dissipative heterogeneous environments, Project Manager: prof.dr. ing. Emil Simion, Phase II-III 2002-2003, (UTCN).	ANSTI nr. GR. 6113/2002

A. Published Books and Book Chapters

[A1] L. Czumbil, A. Ceclan, **Dan D. Micu**, "Advanced Numerical Methods Based on Artificial Intelligence", in *Numerical Methods for Energy Applications* 978-3-030-62190-2, 503912_1_En, (Chapter 4), Publisher Springer International Publishing, **2021**, DOI: 10.1007/978-3-030-62191-9.

[A2] A. Ceclan, L. Czumbil, **Dan D. Micu**, "Ill-Posed Inverse Problems in Electrical Engineering Applications" in *Numerical Methods for Energy Applications* 978-3-030-62190-2, 503912_1_En, (Chapter 9), Publisher Springer International Publishing, **2021**, DOI: 10.1007/978-3-030-62191-9.

[A3] H. Andrei, **Dan D. Micu**, "Overview on Advanced Numerical Methods" in *Numerical Methods for Energy Applications* 978-3-030-62190-2, 503912_1_En, (Chapter 1), Publisher Springer International Publishing, **2021**, DOI: 10.1007/978-3-030-62191-9.

[A4] D. Șteț, **Dan D. Micu**, L. Czumbil, *Analiza, Modelarea și Predicția Fenomenelor de Interferență Electromagnetică dintre Liniile Electrice de Înaltă Tensiune și Structurile Metalice Încevinate. Complementary de Matematici*, Ed. Mediamira, ISBN: 978-973-713-336-6, Cluj-Napoca, Romania, **2016**.

[A5] **Dan 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, Cluj-Napoca, Romania, **2016**.

[A6] **Dan 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

[A7] **Dan D. Micu**, A. Ceclan, L. Czumbil & D. Csala: *Numerical Methods*, Ed. Mediamira, ISBN: 978-973-713-278-9, Romania, **2010**.

[A8] **Dan D. Micu**, A. Ceclan, *Metode numerice. Aplicații în ingineria electrică*, Ed. Mediamira, ISBN 978-973-713-140-9, **2007**

[A9] **Dan D. Micu**, E. Simion, L. Cret, I. Lingvay, Carmen Lingvay, Capitol 3: Impactul campurilor electromagnetice asupra conductelor metalice subterane, în cartea *Impactul câmpurilor electromagnetice de natură antropică asupra ecosistemelor*, Editura PRINTECH, ISBN 978-973-718-912-7, **2007**.

[A10] **Dan D. Micu**, Iosif Lingvay, Emil Simion, *Modelarea și predicția fenomenelor de interferență în regim electrocinetic*, Editura ELECTRA, ISBN 978-973-77728-73-9, **2006**;

[A11] **Dan D. Micu**, L. Creț, D. Duma, *Teoria circuitelor electrice. Culegere de probleme*, Ed. UTPres, ISBN 973-662-184-7, **2005**

[A12] **Dan D. Micu**, *Metode numerice in interferente electromagnetice*, Ed. Mediamira, ISBN 973-713-032-4, **2004**

[A13] **Dan D. Micu**, A. Cziker, *Aplicatii ale metodelor numerice in electrotehnica*, Ed. CCS, ISBN 973-686-317-4, **2002**

[A14] M. Chindris, A. Cziker, **Dan D. Micu**, *Aplicatii de management al calitatii energiei electrice*, Ed. Mediamira, ISBN 973-9358-14-4, **2000**

B. Papers published in ISI Thomson Journals Q1, Q2, Q3

[B1] M. Cretu; L. Czumbil, B. Bargauan, A. Ceclan, A. Berciu, A. Polycarpou, R. Rizzo, **Dan 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*, Vol. 14, Issue 15, pp 2864-2875, **2020**, DOI: 10.1049/iet-rpg.2020.0096

[B2] M. Alexandru, L. Czumbil, **Dan D. Micu**, R. Andolfato and Hassan Nouri "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*, Vol 13, Art.no. 6231, **2020**, DOI:10.3390/en13236231.

[B3] C. Darab, A. Turcu, H. Beleiu, S. Pavel, I. Birou, **Dan D. Micu**, „Hybrid load forecasting using gaussian process regression and novel residual prediction”, *Applied Sciences*, Volume 10, Issue 13, Article number 4588, **2020**, DOI: 10.3390/app10134588.

[B4] A.M. Măgurean, L. Czumbil, D.L. Manea, **Dan 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**, DOI: 10.1016/j.promfg.2019.02.237

[B5] Y. Zhu, V. A. Rakov, M. D. Tran, W. Lyu, **Dan D. Micu**, “A Modeling Study of Narrow Electric Field Signatures Produced by Lightning Strikes to Tall Towers”, *Journal of Geophysical Research: Atmospheres*, Vol. 123/18, Pp. 10.260-10.277, **2018**, <https://doi.org/10.1029/2018JD028916>

[B6] M. Ruba, F. Jurca, L. Czumbil, **Dan D. Micu**, C. Marțiș, 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

[B7] M.S. Munteanu, L. Czumbil, **Dan D. Micu**, Ș.F. Braicu, S. Nemeti & M. Pîslaru: „Measurement of Soil Resistivity in order to Determine the Buried Walls Trajectory”, *Advances in Electrical and Computer Engineering*, ISSN: 1582-7445, vol. 17, no. 1, pp. 103-108, **2017**. DOI: 10.4316/AECE.2017.01015

[B8] Mihaela Crețu, **Dan 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*, Vol. 34, Issue 4, pp. 1043-1053, **2015**, DOI: 10.1108/COMPEL-10-2014-0253

[B9] **Dan 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

[B10] **Dan D. Micu**, Dan Micu, Electric field computation inside a rectangular petrol tank, *Journal of Electrostatics*, Vol. 71/3, pp. 332-335, **2013**, DOI: 10.1016/j.elstat.2012.11.038

[B11] Andrei Ceclan, Vasile Țopa, **Dan D. Micu**, Amedeo Andreotti, Lightning Inverse Reconstruction by Remote Sensing and Field Synthesis, *IEEE Transactions on Magnetics*, Volume: 49, Issue: 5, Pages: 1657-1660, **2013**, DOI: 10.1109/TMAG.2013.2243425

[B12] Popa D., **Dan D. Micu**, Miron, O., Szabo L, Optimized Design of a Novel Modular Tubular Transverse Flux Reluctance Machine, *IEEE Transactions on Magnetics*, Volume: 49, Issue: 11, Pages: 5533-5542, **2013**, DOI: 10.1109/TMAG.2013.2269537

[B13] A. Ceclan, V. Țopa, **Dan 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

[B14] **Dan D Micu.**, L. Czumbil, G.C. Christoforidis, A. Ceclan & D. Şteţ: „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.

[B15] D. Şteţ, **Dan D. Micu**, L. Czumbil, L. Dărăbant, & A. Ceclan: „Simulation of Interferences between Power Lines and Gas Pipelines in Unbalanced Phase Currents State”, *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.

[B16] Laura Darabant, Mihaela Cretu, Radu V. Ciupa, **Dan D. Micu**, Denisa Stet, Assessment of the electric field induced in the human tissue during magnetic stimulation of the spinal cord, *COMPEL: The International Journal for Computation and Mathematics in Electrical and Electronic Engineering*, Vol. 31 Iss: 4, pp.1164 – 1172, **2012**, DOI: 10.1108/03321641211227410

[B17] Daniele Desideri, Alvise Maschio, **Dan D. Micu**, Olivia Ramona Miron, Identification of an equivalent model for the permanent magnets of a magnetron sputtering device, *COMPEL: The International Journal for Computation and Mathematics in Electrical and Electronic Engineering*, Vol. 31, **2012**, pp.514 – 527; DOI:10.1108/03321641211200563

[B18] Daniele Desideri, Alvise Maschio, **Dan D. Micu**, Olivia Miron, Equivalent Model of a Magnetron Sputtering Device with Ferromagnetic Yoke, *Przegląd Elektrotechniczny (Electrical Review)*, ISSN 0033-2097, R. 88 NR 7b, **2012**.

[B19] **Dan D. Micu**, L. Czumbil, G.C. Christoforidis & E. Simion: „Neural Networks Applied in Electromagnetic Interference Problems”, *Revue Roumain des Sciences Techniques*, ISSN: 0035-4066, vol. 57, no. 2, pp.162-171, **2012**. WOS: 000305202600006

[B20] **Dan 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.

[B21] Rodica Creţ, Laura Darabant, **Dan D. Micu**, Mihaela Pleşa, Antoniu Turcu, Denisa Stet, Study of the factors that influence the effective permittivity of the dielectric mixtures, *Revue Roumaine des Sciences Techniques serie Electrotechnique*, **2011**, vol 56, nr. 1, pg. 69-78.

[B22] Radu Ciupa, Laura Darabant, Octavian Cret, **Dan D. Micu**, Design of Efficient Magnetic Coils for Repetitive Stimulation, *Revue Roumaine d'Electrotechnique*, **2010**, vol.55/3, pg. 251-260

[B23] **Dan D. Micu**, Radu Munteanu jr., Georgios Christoforidis, B. Manea, Original Approaches for Solving Electromagnetic Interference Problems, *Advances in Electrical and Computer Engineering*, No 2, pp. 82-90, ISSN: 1582-7445, **2009**

[B24] L. Darabant, M. Plesa, **Dan D. Micu**, Energy Efficient Coils for Magnetic Stimulation, *IEEE Transactions on Magnetics*, 10.1109/TMAG.2009.2012783, vol. 45/3, pp. 1690-1693, **2009**;

[B25] Dalia Sandu, Iosif Lingvay, Szabolcs Lányi, **Dan D. Micu**, Claudia Laurentia Popescu, Jürgen Brem, László C. Bencze, Csaba Paisz, The effect of electromagnetic fields on baker's yeast population dynamics, biocatalytic activity and selectivity, *Studia Universitatis B-B, Chemia*, ISSN 1224-7154, LIV, 4, tom II, pp.195-201, **2009**;

[B26] Dan D. Micu, I. Lingvay, C. Lingvay, L. Darabant, A. Ceclan, Numerical evaluation of induced voltages in the metallic underground pipelines, *Revue Roumaine des Sciences Techniques serie Électrotechnique et Énergetique*, Tome 54, **2009**, Issue: 2, ISSN 0035-4066, pp.175-184.

[B27] **Dan D. Micu**, Dan Micu, Andrei Ceclan, Emil Simion, Synthesis Method of an Inductive Sensor using Tikhonov Regularization Procedure, *International Journal of Applied Electromagnetics and Mechanics*, IJAEM, Volume 26, ISSN 1383-5416, pp. 243-251, **2007**.

C. Articles published in ISI Thomson Proceedings

[C1] M. Cretu, L. Czumbil, B. Bârgăuan, D. Șteț, A. Ceclan, A. Polycarpou, R. Rizzo, **Dan D. Micu**, "Modelling and Forecasting Energy Demand in TUCN Buildings", *International Conference on Clean Electrical Power (ICCEP)*, 2-4 July **2019**, Otranto, Italy, Doi: 10.1109/ICCEP.2019.8890113

[C2] A.M. Măgurean, L. Czumbil, **Dan D. Micu**, "Artificial Intelligence Eased Method for the Long-Term Heat Losses Calculation Applied to Large Slabs On Ground", *International Conference on Clean Electrical Power (ICCEP)*, 2-4 July **2019**, Otranto, Italy, DOI: 10.1109/ICCEP.2019.8890116

[C3] L. Czumbil, D. Șteț, A. Ceclan, L. Dărăbant, M. Crețu & **Dan 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 WOS: 000468972100126

[C4] B. Bârgăuan, M. Crețu, O. Fati, A. Ceclan, L. Dărăbant, **Dan D. Micu**, D. Șteț & L. Czumbil: „Energy Management System for the Demand Response in TUCN Buildings”, *53rd International*

Universities Power Engineering Conference (UPEC), ISBN: 978-1-5386-2910-9, Glasgow, UK, September 4-7, **2018**. Doi: 10.1109/UPEC.2018.8541949 WOS: 000468972100095

[C5] A. Muresan, **Dan D. Micu**, D. Jurj, R. Andolfato, "Overview on computational methods of Gas Insulated Substation grounding grid analysis", *10th International Conference and Expositions on Electrical and Power Engineering (EPE)* Iasi, Oct. 18-19, **2018**, Pp: 81-86, DOI: 10.1109/ICEPE.2018.8559872

[C6] D. Jurj, **Dan D. Micu**, A. Muresan, "Overview of Electrical Energy Forecasting Methods and Models in Renewable Energy", *10th International Conference and Expositions on Electrical and Power Engineering (EPE)* Iasi, Oct. 18-19, **2018** Pp: 87-90, DOI: 10.1109/ICEPE.2018.8559807

[C7] B. Bârgăuan, O. Fati, A. Ceclan, **Dan 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 WOS:000428462600061

[C8] D. Şteţ, L. Czumbil, A. Ceclan, L. Dărăbant & **Dan 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 WOS:000428462600085

[C9] A. Ceclan, **Dan 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 WOS:000428462600060

[C10] Ş.F. Braicu, L. Czumbil, **Dan 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 WOS:000428462600049

[C11] L. Czumbil, Ş.F. Braicu, **Dan 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 WOS: 000427085200004

[C12] D. Micu, D. Stet, **Dan D. Micu**, Synthesis Method Validation for Electric Image Charges Determination, *14th International Conference on Engineering of Modern Electric Systems (EMES)*, ISBN: 978-1-5090-6073-3, Oradea, Romania, June 1-2, **2017**. WOS:000427085200022

[C13] Ş.F. Braicu, L. Czumbil, D. Şteţ & **Dan 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 WOS:000426009100032

[C14] Nassereddine, M.; Hellany, A.; Nagrial, M.; **Dan D. Micu** Utilities Investments into Residential Properties: PV Solar System with Energy Storage Conference: 51st International Universities Power Engineering Conference (UPEC) Coimbra, PORTUGAL SEP 06-09, **2016**, DOI: 10.1109/UPEC.2016.8114083

[C15] **Dan 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 WOS: 000390706300155

[C16] **Dan 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 WOS: 000466894400135

[C17] L. Czumbil, **Dan 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 WOS: 000392434400083

[C18] G. Peppas, T. Tsovilis, E. Pyrgioti, **Dan D. Micu**, I. Gonos, „Lightning Protection of Pipeline Systems”, *International Conference on Lightning Protection (ICLP)* ISBN:978-1-5090-5843-3, Lisbon Portugal, 25-28 Sept. **2016**, DOI: 10.1109/ICLP.2016.7791361, WOS:000392212500026

[C19] L. Czumbil, **Dan D. Micu**, C. Munteanu, D. Şteţ & B. Tomoiogă: „Optimal Design of the Pipeline Right-of-Way Nearby High Voltage Transmission Lines using Genetic Algorithms”, 50th *International Universities Power Engineering Conference (UPEC)*, ISBN: 978-1-4673-9682-0, Stoke on Trent, UK, September 01-04, **2015**. Doi: 10.1109/UPEC.2015.7339841 WOS: 000377369500082

[C20] M. Nassereddine, **Dan D. Micu**, J. Rizk, M. Nagrial, A. Hellany, OHEW Condition and its Impact on Substation Earthing System and AC Interference between Pipeline and Transmission

Line, 50th International Universities Power Engineering Conference (UPEC), Stoke on Trent, UK, September 1-4, **2015**, DOI: 10.1109/UPEC.2015.7339854

[C21] L. Czumbil, **Dan 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 WOS: 000368159800100

[C22] R. Radu, **Dan D. Micu**, Analytical model for a Medium Voltage distribution grid's main elements - Transformers and cables, 13th International Conference on Engineering of Modern Electric Systems, Oradea, **2015**; DOI: 10.1109/EMES.2015.7158393

[C23] Tomoiaga, B., **Dan D. Micu**, A comparative study of Pareto optimal approaches for distribution system reconfiguration, 49th International Universities' Power Engineering Conference, ISBN 978-1-4799-6556-4, Scopus no. 6934784, Cluj-Napoca, September 2-5, **2014**. DOI: 10.1109/UPEC.2014.6934784

[C24] Radu, R.-A., Micu, D.O., **Dan D. Micu**, Ceclan, A. Analysis of inrush and fault currents measurement errors generated by the current transformer saturation, 49th International Universities' Power Engineering Conference, ISBN 978-1-4799-6556-4, Scopus no. 6934699, Cluj-Napoca, September 2-5, **2014**. DOI: 10.1109/UPEC.2014.6934699

[C25] D. Şteţ, **Dan 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 WOS: 000353565300038

[C26] A. Ceclan, A. Holhos, **Dan 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 WOS: 000358572100260

[C27] L. Czumbil, D. Şteţ, **Dan 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 WOS: 000364087800039

[C28] T.A. Papadopoulos, G.C. Christofridis, **Dan D. Micu** & L. Czumbil: „Medium-Voltage Cable Inductive Coupling to Metallic pipelines: A Somprehensive Study”, *49th International Universities Power Engineering Conference, (UPEC)*, ISBN: 978-1-4799-6556-4, Cluj-Napoca, Romania, September 02-05, **2014**. Doi: 10.1109/UPEC.2014.6934713 WOS: 000364087800113

[C29] L. Czumbil, **Dan 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 WOS: 000333750100093

[C30] G.C. Christoforidis, **Dan 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 WOS: 000333750100150

[C31] L. Czumbil, **Dan 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 WOS: 000332928500109

[C32] Racasan, A.N., Pacurar, C., Munteanu, C., Topa, V., **Dan D. Micu**, Hebedean, C., Modeling and mitigation techniques of the magnetic integrated structures parasitic capacitance, Proceedings of 47th International Universities' Power Engineering Conference, UPEC, September 4-7, **2012**, London, UK, E-ISBN: 978-1-4673-2855-5, 10.1109/UPEC.2012.6398555

[C33] Cosmin Porumb, Bogdan Orza, **Dan D. Micu**, Sanda Porumb, Cloud Computing and its application to blended learning in engineering, *Leveraging Technology for Learning*, VOL II, pp. 253-258, **2012**.

[C34] Sanda Porumb, **Dan D. Micu**, Bogdan Orza, Cosmin Porumb, Collaborative learning concept for lifelong learning, *Leveraging Technology for Learning*, VOL II, pp. 518-524, **2012**.

[C35] D. Şteţ, L. Czumbil, **Dan D. Micu** & O. Miron: „Corrosion 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 WOS: 000324685300097

[C36] Ceclan Andrei, Vasile Ţopa, **Dan D. Micu** and Amedeo Andreotti, Return Stroke Current Remote Sensing, Based on Solving an Inverse ill-posed Problem, *International Conference and Exposition on Electrical and Power Engineering EPE*, pp. 717-722, Iasi, Romania, **2012**. 10.1109/ICEPE.2012.6463846

[C37] Ceclan Andrei, Vasile Ţopa, Amedeo Andreotti and **Dan D. Micu**, Regularization of ill-posed return stroke current identification problem, *31-th International Conference on Lightning protection (ICLP)*, Vienna, Austria, Digital Object Identifier: 10.1109/ICLP.2012.6344382, **2012**.

[C38] Olivia Miron, **Dan D. Micu**, P. Alotto, D. Desideri, A. Maschio, Numerical Analysis of a New Experimental Set-up for Measurements of Shielding Effectiveness, *46th International Universities Power Engineering Conference, UPEC*, Soest, Germany, 5 – 8 Sept **2011**, ISBN 978-0-9565571-1-8. Print ISBN: 978-3-8007-3402-3.

[C39] Liviu Ancas, **Dan D. Micu**, V. Topa, Right of Way - Buried Metallic Pipelines HV-Power Lines. Mitigation Techniques, *46th International Universities Power Engineering Conference, UPEC 2011*, Soest, Germany, 5 – 8 Sept **2011**, Print ISBN: 978-3-8007-3402-3.

[C40] Stet, D., **Dan D. Micu**, Avram, C., Darabant, L., Combined methods for solving inductive coupling problems, *Advanced Topics in Electrical Engineering (ATEE)*, Bucuresti, Romania, **2011**. Print ISBN: 978-1-4577-0507-6 INSPEC Accession Number: 12119019

[C41] **Dan D. Micu**, L. Czumbil, A. Ceclan, L. Dărăbant, D. Șteț & 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 WOS: 000274778700024

[C42] L. Czumbil, **Dan D. Micu** & A. Ceclan: „Artificial Intelligence Techniques Applied to Electromagnetic Interference Problems”, *IFMBE Proceedings*, ISSN: 1680-0737, vol. 26, pp. 339-344, presented at *International Conference on Advancements of Medicine and Health Care Through Technology (MediTech)*, September 23-26, **2009**. Doi: 10.1007/978-3-642-04292-8_75 WOS: 000281139900075

[C43] **Dan 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

[C44] A. Ceclan, C. Bărbulescu, **Dan 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 WOS: 000259867600072

[C45] A. Ceclan, C. Bărbulescu, **Dan 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, Brașov, Romania, May 22-24, **2008**. Doi: 10.1109/OPTIM.2008.4602346 WOS: WOS:000258474200012

[C46] L. Cret, M. Plesa, **Dan D. Micu**, R. Ciupa, Magnetic coils design for focal stimulation of the nervous system, *The International Conference on "Computer as a tool"*, Warsaw, **2007**, pp. 1481 – 1484, pp. 1998-2003, ISBN: 1-4244-0813-X. 10.1109/EURCON.2007.4400661

[C47] Andrei Ceclan, **Dan D. Micu**, Emil Simion, Radu Donca, Public lighting systems – an energy saving technique and product, *International Conference on Clean Electrical Power*, Capri, IEEE Catalog number: 07EX1528 – ISBN: 1-4244-0631-5, **2007**. 10.1109/ICCEP.2007.384283

[C48] **Dan D. Micu**, Emil Simion, Dan Micu, Andrei Ceclan, Numerical Methods for Induced Voltage Evaluation in Electromagnetic Interference Problems, *9th International Conference, Electric Power Quality and Utilisation*, Barcelona, 9-11 October **2007**, IEEEExplore, Compendex 10.1109/EPQU.2007.4424091, ISBN 978-84-690-9441-9, 10.1109/EPQU.2007.4424091

[C49] Constantin Bărbulescu, Andrei Ceclan, Ștefan Kilyeni, **Dan D. Micu**, Power Flow Calculation for Ill-Conditioned Systems. Simplified Newton Method with SVD Partial Regularization, *The International Conference on "Computer as a tool"*, Warsaw, September 9-12 **2007**, pp. 1481 – 1484, ISBN: 1-4244-0813-X. 10.1109/EURCON.2007.4400667

D. Papers published in International Data Bases (IEEEExplore, Scopus)

[D1] Dacian I. Jurj, **Dan D. Micu**, Levente Czumbil, Alexandru G. Berciu, Mircea Lancrajan, Denisa M. Bărar, „Analysis of Data Cleaning Techniques for Electrical Energy Consumption of a Public Building”, *55th International Universities' Power Engineering Conference, (UPEC)*, 1-4 Sept. **2020**, Torino, Italy. DOI: 10.1109/UPEC49904.2020.9209781

[D2] Ș.F. Braicu, L. Czumbil, D. Șteț, **Dan 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)*, eISBN: 978-1-7281-0750-9, Cluj-Napoca, Romania, May 21-23, **2019**. DOI: 10.1109/MPS.2019.8759770

[D3] M. Crețu, A. Ceclan, L. Czumbil, D. Șteț, B. Bârgăuan & **Dan D. Micu**: „Key Performance Indicators (KPIs) for the Evaluation of the Demand Response in the Technical University of Cluj-Napoca Buildings”, *8th International Conference on Modern Power Systems (MPS)*, eISBN: 978-1-7281-0750-9, May 21-23, **2019**. DOI: 10.1109/MPS.2019.8759770

[D4] **Dan D. Micu**, I. V. Ivshin, E. I. Gracheva, O. V. Naumov and A. N. Gorlov, „Influence of resistance of contact units of switching devices on the electric power losses in low voltage networks”, *International Scientific and Technical Conference Smart Energy Systems*, SES-2019, Kazan, Russia, September 18-20 **2019**, DOI: <https://doi.org/10.1051/e3sconf/201912402013>

[D5] **Dan D. Micu**, A. G. Rusina, O. V. Naumov and A. N. Gorlov „Calculation of loading ability of power transformers taking into account electromechanical characteristics”, *International Scientific and Technical Conference Smart Energy Systems*, SES-2019, Kazan, Russia, September 18-20, 2019, DOI: <https://doi.org/10.1051/e3sconf/201912402006>

[D6] Denisa Stet ; Levente Czumbil ; **Dan D. Micu** ; Alexis Polycarpou ; Andrei Ceclan ; Mihaela Cretu, Power Factor Correction Using EMTP-RV for Engineering Education, 54th *International Universities' Power Engineering Conference, (UPEC)*, 3-6 Sept. 2019, DOI: 10.1109/UPEC.2019.8893477

[D7] Mihai Paunescu ; Florin Dragan ; **Dan D. Micu**, Propagation of harmonic disturbances in electrical network caused by the electrical circuit breaker, 54th *International Universities' Power Engineering Conference, (UPEC)*, 3-6 Sept. 2019, DOI: 10.1109/UPEC.2019.8893619

[D8] Mihai Paunescu ; **Dan D. Micu** ; Florin Dragan ; Vasile Topa, The Effect of Corrosion on Electrical Contacts, *8th International Conference on Modern Power Systems (MPS)*, eISBN: 978-1-7281-0750-9, May 21-23, 2019, DOI: 10.1109/MPS.2019.8759650

[D9] Mihai Paunescu ; Florin Dragan ; **Dan D. Micu** ; Rares Iusan, Numerical modelling of electrical contacts and thermal effect on them, 54th *International Universities' Power Engineering Conference, (UPEC)*, 3-6 Sept. 2019, DOI: 10.1109/UPEC.2019.8893559

[D10] Mihai Paunescu ; Florin Dragan ; **Dan D. Micu** ; Vasile Topa, Temperature monitoring system in automated circuit breakers, *8th International Conference on Modern Power Systems (MPS)*, eISBN: 978-1-7281-0750-9, May 21-23, 2019, DOI: 10.1109/MPS.2019.8759710

[D11] **Dan 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/dtcse/ammms2018/27275

[D12] L. Czumbil, **Dan D. Micu**, D. Şteţ & A. Ceclan: „Inductive Coupling between Overhead Power Lines and nearby Metallic Pipelines. A Neural Network Approach”, *Carpathian Journal of Electrical Engineering (CJEE)*, ISSN: 1843-7583, vol. 9, no. 1, pp. 29-44, 2015

[D13] D. Şteţ, **Dan 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

[D14] A. Pașca, **Dan 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**

[D15] L. Czumbil, D. Șteț, **Dan 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

[D16] **Dan 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

[D17] D. Șteț, L. Czumbil, **Dan 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

[D18] L. Czumbil, D. Șteț, **Dan 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

[D19] **Dan 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

[D20] O. Miron, **Dan 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

[D21] L. Czumbil, G.C. Christoforidis, **Dan 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**.

[D22] A. Ceclan, V. Țopa, **Dan 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

[D23] L. Czumbil, **Dan 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, April 11-14, **2011**. Doi: 10.1049/cp.2011.0055

[D24] A. Ceclan, V. Țopa, **Dan 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

[D25] O. Miron, D. Desideri, **Dan 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

[D26] L. Czumbil, **Dan 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**.

[D27] **Dan 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

[D28] **Dan 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**

[D29] A. Ceclan, **Dan 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, 31.08 –3.09, **2010**

[D30] **Dan 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

[D31] A. Ceclan, **Dan 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

[D32] Czumbil L., **Dan D. Micu**, Ceclan A., Artificial Intelligence Techniques Applied to Electromagnetic Interference Problems, *IFMBE Proceedings*, Vol. 26, September 23-26, **2009**, Cluj-Napoca, Romania, pp. 339-344, ISSN: 1680-0737. DOI: 10.1007/978-3-642-04292-8_75

[D33] Mircea Buzdugan, **Dan D. Micu**, Emil Simion, Andrei Ceclan and L. Cîmpan, The Electromagnetic Threat in the Today's Environment, *IFMBE Proceedings*, **2009**, pp. 355, ISSN: 1680-0737. DOI: 10.1007/978-3-642-04292-8_78

[D34] **Dan D. Micu**, A. Ceclan, Laura Darabant, Denisa Stet, Analytical and Numerical Development of the Electromagnetic Interference Between a High-Voltage Power Line and an Underground structures, *6th International Symposium on Advanced Electromechanical Motion Systems, ELECTROMOTION 2009*, July 1-3, **2009**, Lille, France, ISBN: 978-2-915913-25-5, EAN: 9782915913255, 10.1109/ELECTROMOTION.2009.5259090

[D35] **Dan D. Micu**, A. Ceclan, Laura Dărăbant, Denisa Steț, Inductive and conductive interference problems for practical cases solved with special interpolation algorithms, *43rd International Power Engineering Conference*, 1-4 september **2008**, Padova, Italy, pp. 214-216, 14.1104/UPEC, ISBN 978-88-89884-09-6, 2008. 10.1109/UPEC.2008.4651636

[D36] **Dan D. Micu**, E. Simion, D. Micu, A. Ceclan, L. Cret, D. Duma, Numerical algorithm for the accurate evaluation of the induced voltages in a pipeline, *6th International Conference on Computational Electromagnetics*, Aachen, Germany, April 4-6, **2006**, pp. 230-232, ISBN 978-3-8007-2957-9, ISBN (Compel) 3-8007-2957-1. Print ISBN: 978-3-8007-2957-1

[D37] A. Micu, D. Micu, **Dan D. Micu**, L. Chira, The synthesis of electroparametric circuits, *IEEE-TTTC International conference on Automation, Quality and Testing, Robotics, AQTR*, **2006**, pp. 252-254, IEEE Catalog nr. 06EX1370, ISBN 1-4244-0360-X, 10.1109/AQTR.2006.254536

[D38] **Dan D. Micu**, D. Micu, A. Ceclan, Synthesis Method of an Inductive Sensor using Tikhonov Regularization Procedure, *9th International Conference on Optimization and Inverse Problems in Electromagnetism*, Sorrento, Italy, Sep. 13-15, **2006**, pp. 176-178, ISBN 88 7146 733-7. ISSN: 13835416 Source Type: Journal

E. Papers indexed in other data bases or published in Romanian B+Journals

- [E1]. **Dan D. Micu**, A. Micu, *Application of the inversion method in electrical circuits theory*, 6th International Conference on Engineering of Modern Electric Systems, EMES Oradea, May 1999, pp. 49-54.
- [E2]. M. Chindris, A. Cziker, **Dan D. Micu**, *Resonant Behaviour of the Symmetrizing Steinmetz Circuitry*, International Conference CAD in Electromagnetism and Electrical Circuits, 8-10 September 1999, Cluj-Napoca, pp. 59 – 63.
- [E3]. I. Vadan, M. Chindris, A. Cziker, **Dan D. Micu**, *Computer simulation of a Tesla coil*, CAD in Electromagnetism and Electrical Circuits Conference, 8-10 September 1999, Cluj-Napoca, pp.70-73, CADEMEC Conference in the frame of TEMPUS S-JEP 12080-97 Project.
- [E4]. D. Micu, M. Chindris, **Dan D. Micu**, A. Cziker, *Rotating Magnetic Field Evaluation in Polyphase Harmonic Polluted Systems*, International Conference on Electrical&Power Engineering 4-6 November 1999, Iași. Buletinul Institutului Politehnic din Iasi, Tomul XLV (IL) Electrotehnica, Fasc. 5B, pp. 83 – 87, ISSN 0258-9109.
- [E5]. S. Stefanescu, M. Chindris, A. Cziker, **Dan D. Micu**, *Efect of MOSFET output capacitance on ZVS operation of a PSPWM-SRI*, Buletinul Institutului Politehnic Iași, Fasc. 5, 1999, pp. 99 –104, ISSN 0258-9109.
- [E6]. M. Chindris, S. Stefanescu, A. Cziker, **Dan D. Micu**, *Symetrizing system behaviour in harmonic polluted electrical networks*, Buletinul Institutului Politehnic Iași, Fasc. 5, 1999, pp. 55 – 59, ISSN 0258-9109.
- [E7]. M. Chindris, A. Cziker, **Dan D. Micu**, *Influența regimului nesinusoidal asupra sistemelor de simetrizare a consumatorilor monofazați de mare putere*, Al III-lea Simpozion Național de Calitatea Energiei Electrice, Târgoviște, 8-9 Decembrie 1999, pp. 58 – 65.
- [E8]. S. Stefanescu, M. Chindris, A. Cziker, **Dan D. Micu**, *Filtru activ pentru îmbunătățirea calității alimentării cu energie electrică a consumatorilor*, A doua Conferința Internațională de Sisteme Electromecanice Chișinău, 8-9 Octombrie 1999, vol I, pp. 265-268.
- [E9]. M. Chindris, **Dan D. Micu**, A. Cziker, *Custom Power-tendințe actuale*, Simpozionul de eficiență energetică, Ediția II, 5-7 Sept. 2000, Cluj Napoca.
- [E10]. M. Chindris, S. Ștefănescu, D. Nicorici, A. Cziker, **Dan D. Micu**, *Proiectarea filtrului trece sus de ordinul III pentru reducerea regimului deformant în sistemele electroenergetice*, Simpozionul de eficiență energetică, Ediția II, 5-7 Sept. 2000, Cluj Napoca.
- [E11]. M. Chindris, A. Cziker, S. Ștefănescu, **Dan D. Micu**, *Utilizarea elementelor reactive comandate în cazul simetrizării sarcinii bifazate prin conexiunea Steinmetz*, Simpozionul de eficiență energetică, Ediția II, 5-7 Sept. 2000, Cluj Napoca.
- [E12]. **Dan D. Micu**, *Remarks about the evaluation of mutual impedances of lines with earth return*, 7th International Conference on Engineering of Modern Electric Systems, Analele Universitatii Oradea, Fasc. Electrot. A1, Mai 2000, pp. 35-40, ISSN-1223-2106.
- [E13]. **Dan D. Micu**, V. Țopa, E. Simion, *Overview on formulas for the evaluation of self and mutual impedances of lines with earth return. AC cathodic protection*, The 1st International Workshop on Advances in Numerical Computation Methods in Electromagnetism, Proceedings of the ANCME Conference, Gent, Belgium, June 2000, pp. 20-37, ISBN 973-686-076-0.
- [E14]. V. Iancu, **Dan D. Micu**, *Starting Diagram for Single Phase Motor*, AME Chișinău, May 2001, pp. 120-126.
- [E15]. V. Iancu, D. Micu, **Dan D. Micu**, *Starting Diagram for Single Phase Motor (I)*, Acta Electrotehnica, Vol. 42, Nr.1 2001, pp. 95-103, ISSN 1224-2497.
- [E16]. V. Iancu, N. Maghiar, **Dan D. Micu**, *Starting Diagram for Single Phase Motor (II)*, 8th International Conference on Engineering of Modern Electric Systems, Oradea, May 2001, pp. 470-482, ISSN-1223-2106.
- [E17]. **Dan D. Micu**, A. Micu, F. Drăgan, *Forced Commutation in a DC Motor as a EMI Source*, 8th International Conference on Engineering of Modern Electric Systems, Oradea, May 2001, pp. 407-412, ISSN-1223-2106.
- [E18]. **Dan D. Micu**, E. Simion, L. Cret, V. Lohan, *Analytical expression of induced current density using the CGRP theory*, International Conference on Electrical &Power Engineering, November, 2002, Iași. Buletinul Institutului Politehnic din Iasi, Tomul XLVIII (LII), Fasc. 5, pp. 97-102, ISSN 0258-9109.
- [E19]. **Dan D. Micu**, A. Micu, *An intuitive method for teaching electrotechnics*, International IGTE Symposium on Numerical Field Calculation in Electrical Engineering, Pag 14-18, IGTE, Graz, Austria, 14-17 June 2002.

- [E20]. **Dan D. Micu**, E. Simion, C. Munteanu, V. Lohan, L. Creț, *Review of the analysis and evaluation of Carson integral*, 9th International Conference on Engineering of Modern Electric Systems EMES Oradea, 2002, pp. 67-71, ISSN 1223-2106.
- [E21]. V. Lohan, E. Simion, V. Țopa, **Dan D. Micu**, L. Creț, *Magnetic field modelling for synchronous generator*, 8th International Conference on Engineering of Modern Electric Systems, EMES Oradea, May 2002, pp. 56-60, ISSN 1223-2106.
- [E22]. L. Creț, **Dan D. Micu**, E. Simion, *Simulation of Multiple Fluorescent Lamp Systems using Measured Based Models*, International Conference Sources and Environmental Electrotechnologies, RSEE 6-9 06.2002, Oradea, pp. 30-34, ISSN 1223-2106.
- [E23]. V. Lohan, E. Simion, **Dan D. Micu**, *The study of the electromagnetic field for a HV generator*, International Conference on Applied Electricity ICATE Craiova, Oct. 2002, pp.101-104, ISBN 973-8043-169-9.
- [E24]. L. Creț, E. Simion, **Dan D. Micu**, *Assesment of power and light quality problems in a religthing project*, International Conference on Applied Electricity, Craiova, Oct. 2002, pp. 284-287, ISBN 973-8043-169-9.
- [E25]. **Dan D. Micu**, E. Simion, *Analytical expression of induced current density and power losses in conductive soil*, Fascicola Electrotehnica, Seria C, vol. 10, 8-9 May 2003, Baia Mare, pp. 45-50, ISSN 1224-3272.
- [E26]. L. Creț, **Dan D. Micu**, *An HSPICE Simulation of fluorescent lamp system using conventional ballast*, Fascicola Electrotehnica, Seria C, vol. 10, Baia Mare, 2003, pp. 7-10, ISSN 1224-3272.
- [E27]. D. Duma, C. Munteanu, **Dan D. Micu**, *Studiul descărcărilor electrostatice între electrozi plan-paraleli*, Fascicola Electrotehnica, Seria C, vol. 10, Baia Mare, 2003, pp. 17-21, ISSN 1224-3272.
- [E28]. **Dan D. Micu**, D. Micu, *Finite difference method for the calculation of the induced voltage in an underground pipeline*, International Conference on Engineering of Modern Electric Systems, EMES Oradea, May 29-31 2003, pp.66-70, ISSN 1223-2106.
- [E29]. **Dan D. Micu**, E. Simion, A. Micu, D. Lohan, L. Creț, D. Duma, *Fast Fourier Transform algorithm for signal spectrum phase and amplitude calculation*, International Conference on Engineering of Modern Electric Systems EMES Oradea, May 29-31 2003, pp. 71-77, ISSN 1223-2106.
- [E30]. L. Creț, R. Ciupa, **Dan D. Micu**, *Mathematical models for magnetic nerve simulation*, The 2nd International Workshop on Advances in Numerical Computation Methods in Electromagnetism ANCME Gent, May 2003, pp. 156-163, ISBN 973-686-460-X.
- [E31]. **Dan D. Micu**, D. Micu, *Numerical model for the calculation of the induced voltage in an underground pipeline*, The 2nd International Workshop on Advances in Numerical Computation Methods in Electromagnetism ANCME Gent, Belgia, 2003, pp. 179-191, ISBN 973-686-460-X.
- [E32]. **Dan D. Micu**, D. Micu, *Mathematical model for experimental calculus of induced voltage in a pipeline*, International Conference on Modelling and Optimization in the Machines Building Field, MOCM - 9 University of Bacău 2003, pp. 168-173, ISSN1224-7480.
- [E33]. **Dan D. Micu**, *Studiul sistemelor de ecuații cu aplicabilitate în tehnică*, Raport Tehnic, Universitatea Babeș-Bolyai, Facultatea de Matematică, catedra Analiză Numerică, Cluj-Napoca, Iunie 2003.
- [E34]. R. Cret, **Dan D. Micu**, D. Mateescu, *Asupra unor proprietati electrice ale dielectricilor neomogeni*, A IV-a conferinta internationala Sebes, Ed. Agir, Bucuresti, 2004, pp. 199-205, ISBN 973-8466-67-9.
- [E35]. D. Micu, **Dan D. Micu**, *An application of Monte Carlo Analysis Method*, International Conference on Engineering of Modern Electric Systems EMES, Oradea, may 2004, pp. 49-51, ISSN 1223-2106.
- [E36]. Laura Cret, **Dan D. Micu**, E. Simion, *Determination of electric field intensity in living organisms. Influence factors*, International Conference on Engineering of Modern Electric Systems EMES, Oradea, may 2004, pg. 16-18, ISSN 1223-2106.
- [E37]. E. Man, V. Neamtu, **Dan D. Micu**, *Applying the theorems of equivalent generators to electric circuits with controlled power sources*, International Conference on Engineering of Modern Electric Systems EMES, Oradea, may 2004, pg. 139-142, ISSN 1223-2106.
- [E38]. A. Cziker, M. Chindris, **Dan D. Micu**, O. Lungu, *Prognostica puterii de varf utilizand logica fuzzy*, International Conference on Engineering of Modern Electric Systems, Oradea, may 2004, pg. 108-112, ISSN 1223-2106.
- [E39]. **Dan D. Micu**, E. Simion, A. Ceclan, D. Micu, A. Cziker, L. Cret, *Mathematical model for electric potential distribution inside a capacitor*, International Conference on Engineering of Modern Electric Systems EMES, Oradea, may 2004, pg. 51-54, ISSN 1223-2106.

- [E40]. **Dan D. Micu**, M. Chindris, A. Cziker, *Influence of AC transmission lines on underground pipelines*, 3rd International Conference Study and control of corrosion in the perspective of sustainable development of urban distribution grids, 1-3 July 2004, pp. 148-152, ISBN 973-718-026-7.
- [E41]. A. Cziker, M. Chindris, **Dan D. Micu**, C. Guriță, *Reconfigurarea rețelelor electrice de distribuție utilizând algoritmi genetici*, Simpozion Internațional de Sisteme de inteligența artificială în electroenergetică, SIE, Galați, 29-30 Sept. 2004, pag. 91-96.
- [E42]. **Dan D. Micu**, E. Simion, L. Cret, *Distributed source approach for evaluation of the induced voltages in an underground pipeline*, International Conference on Applied and Theoretical Electricity, ICATE, Craiova, 14-15 Oct. 2004, pp. 26-29, ISBN 973-8043-554-4.
- [E43]. L. Cret, **Dan D. Micu**, E. Simion, *Numerical computation of the electric field induced in human tissues during magnetic stimulation*, International Conf. on Applied and Theoretical Electricity, ICATE–Craiova, 14-15 Oct. 2004, pp. 22-25, ISBN 973-8043-554-4.
- [E44]. A. Cziker, M. Chindris, **Dan D. Micu**, *Consideratii privind pierderile de putere in retelele de distributie in condiții reale de exploatare*, Simpozion Internațional de Sisteme de inteligența artificială în electroenergetică, SIE Cluj-Napoca, 18-20 Oct. 2004, pag. 230-236.
- [E45]. Laura Cret, Mihaela Plesa, **Dan D. Micu**, Radu Ciupa, *Analysis of the electric field induced in human tissues by magnetic stimulation*, International Conference on Engineering of Modern Electric Systems EMES Oradea, 26-28 May 2005, pp. 19-22, ISSN 1223-2106.
- [E46]. E. Man, **Dan D. Micu**, L. Man, *Generalisation of Boolean algebra applied in electrical circuits*, International Conference on Engineering of Modern Electric Syst, Oradea, 26-28 May 2005, pp. 40-43, ISSN 1223-2106.
- [E47]. **Dan D. Micu**, A. Ceclan, E. Simion, L. Cret, *Numerical methods applied in electrotechnical applications*, International Conference on Engineering of Modern Electric Systems EMES Oradea, 26-28 May 2005, pp. 43-47, ISSN 1223-2106.
- [E48]. **Dan D. Micu**, E. Simion, I. Lingvay, *Contributions to study the perturbations of underground metallic structures with AC signals provided from the overhead power lines*, 4th International Conference Study and control of corrosion in the perspective of sustainable development of urban distribution grids, 9-11 June Sibiu, pp. 58-67, ISBN 973-718-259-6.
- [E49]. Laura Cret, M. Plesa, R. Ciupa, **Dan D. Micu**, *Remarks on the optimal design of coils for magnetic stimulation*, International Symposium on Interdisciplinary Electromagnetic, Mechanic and Biomedical Problems, ISEM-Bad Gastein, Austria, 12-14 Sept. 2005, pp. 352-354, ISBN 3-902105-00-1.
- [E50]. L. Man, E. Simion, E. Man, **Dan D. Micu**, *Optimal Design of Symmetrizing Circuits in the Three-Phase Networks*, 3rd International Workshop on Advances in Numerical Computation Methods in Electromagnetism, ANCMET'2005, pp. 60-66, ISBN–10973-686-798-6.
- [E51]. **Dan D. Micu**, E. Simion, L. Cret, *Numerical computation of the induced voltages in a pipeline using special interpolation functions*, International Conference on Electrical Machines, Drives and Power Systems, ELMA Sofia, Bulgaria, Sept. 15-16, pp. 327-329, 2005, ISBN 954-902-09-6-7.
- [E52]. **Dan D. Micu**, A. Ceclan, E. Simion, *Analytical technical curve fitting. Method and implementation*, International Power Systems Conference, PSC Timisoara, 2005, pp. 345-349, ISBN 1582-7194.
- [E53]. L. Man, E. Man, E. Simion, **Dan D. Micu**, L. Cret, D. Duma, *Criteria for the Design of Symmetrizing Circuits and Simultaneous Compensation of the Reactive Power in the Three-Phase Networks*, 5th International Conference on Electromechanical and Power Systems, octombrie 2005, Chisinau, Rep. Moldova, pp. 995-999, ISBN 973-716-208-0.
- [E54]. **Dan D. Micu**, E. Simion, D. Micu, L. Cret, D. Duma, L. Man, *Numerical Method For The Computation Of Currents And Voltages Induced In A Pipeline*, 5th International Conference on Electromechanical and Power Systems, octombrie 2005, Chisinau, Rep. Moldova, 1021-1025, ISBN 973-716-208-0.
- [E55]. Laura Cret, Mihaela Plesa, **Dan D. Micu**, Denisa DUMA, L. Man, E. Simion, *Design Of Coils For Magnetic Stimulation*, 5th International Conference on Electromechanical and Power Systems, octombrie 2005, Chisinau, Moldova, 1041-1044, ISBN 973-716-208-0.
- [E56]. D. Duma, C. Munteanu, **Dan D. Micu**, L. Cret, E. Simion, L. Man, *Numerical Modelling Of Electromagnetic Interference Using The FDTD Method*, 5th International Conference on Electromechanical and Power Systems, octombrie 2005, Chisinau, Rep. Moldova, pp. 1025-1027, ISBN 973-716-208-0.
- [E57]. A. Nicu, **Dan D. Micu**, *Mathematical Models used in Bioelectromagnetic Problems*, Acta Electrotehnica, vol. 46, no.4/2005, pp. 218-224, ISSN 1841-3323.

- [E58]. A. Ceclan, C. Baidoc, **Dan D. Micu**, E. Simion, *Circuit library in transitory regime*, International Conference on Renewable Sources and Environmental Electro-Technologies RSEE, Oradea, 8-10 June 2006, pp. 15-19, ISSN 1841-7221.
- [E59]. **Dan D. Micu**, A. Ceclan, M. Ruba, E. Simion, D. Micu, I. Cont, *Numerical algorithm for electric circuit solver*, International Conference on Renewable Sources and Environmental Electro-Technologies RSEE, Oradea, 8-10 June 2006, pp. 54-58, ISSN 1841-7221.
- [E60]. A. Ceclan, C. Munteanu, **Dan D. Micu**, L. Man, *Solving an electromagnetic field problem using Mathematica and Mathcad softwares*, Acta Electrotehnica, Mediamira, vol. 47, nr.1, 2006, pp. 55-60, ISSN 1841-3323.
- [E61]. A. Ceclan, **Dan D. Micu**, D. Micu, L. Caliap, *Reactive power source design by geometrical inversion*, Acta Electrotehnica, Mediamira, vol. 47, nr.1, 2006, pp. 61-64, ISSN 1841-3323.
- [E62]. **Dan D. Micu**, E. Simion, D. Micu, A. Ceclan, L. Cret, D. Duma, *Numerical algorithm for the accurate evaluation of the induced voltages in a pipeline*, 6th International Conference on Computational Electromagnetics, Aachen, Germany, April 4-6, 2006, pp. 230-232, ISBN 978-3-8007-2957-9, ISBN (Compel) 3-8007-2957-1.
- [E63]. **Dan D. Micu**, E. Simion, *Theoretical overview and algorithms for solving interference problems. Overhead Power Lines – Underground Pipelines*, 5rd International Conference Study and control of corrosion in the perspective of sustainable development of urban distribution grids, 18-20 May, Tg. Mures, 2006, pp. 226-236, ISBN 973-718-481-5.
- [E64]. I. Cont, E. Simion, **Dan D. Micu**, *An analytic method for the total harmonic distortion improvement*, 5rd International Conference Study and control of corrosion in the perspective of sustainable development of urban distribution grids, 18-20 May, Tg. Mures, 2006, ISBN 973-718-481-5.
- [E65]. I. Pop, C. Munteanu, E. Simion, **Dan D. Micu**, *Aproximate method for magnetic field calculus in the power lines proximity*, 5rd International Conference Study and control of corrosion in the perspective of sustainable development of urban distribution grids, 18-20 May, Tg. Mures, 2006, ISBN 973-718-481-5.
- [E66]. I. Cont, E. Simion, **Dan D. Micu**, *Considerații privind reducerea armonicilor prin injecție de armonici PWM*, a VI-a conferința internațională Sebes, Ed. Agir, București, 2006, pp. 199-205, ISBN 973-8466-67-9.
- [E67]. E. Simion, A. Ceclan, **Dan D. Micu**, L. Cret, D. Duma, L. Man, *Analytical curve fitting of nonlinear characteristics and hysteresis*, XIX International Conference on Electromagnetic Phenomena in Nonlinear Circuits, Maribor, Slovenia, June 28-30, 2006, pp. 131-133, ISBN 83-921340-1-X.
- [E68]. L. Cret, R. Ciupa, M. Plesa, **Dan D. Micu**, A. Nicu, *Design of special coils for focal magnetic stimulation*, International Conference on Biomedical Engineering, Patras, Grecia, 7-9 July, 2006, pp. 140-144.
- [E69]. **Dan D. Micu**, A. Ceclan, E. Simion, *Numerical methods for approximation of nonlinear characteristics given by magnetic coils*, International Conference on Scientific Computing in Electrical Engineering, Sinaia, 17-21 Sep., 2006, pp. 127-129, ISBN 978-973-718-520-4.
- [E70]. D. Duma, C. Munteanu, **Dan D. Micu**, *Finite-Difference Time – Domain method used in transient analysis of wave processes*, International Conference on Scientific Computing in Electrical Engineering, Sinaia, 17-21 Sep., 2006, pp. 144- 146, ISBN 978-973-718-520-4.
- [E71]. A. Ceclan, **Dan D. Micu**, E. Simion, *On an object identification via electric potential measurement*, Int Conference on Electrical & Power Engineering, Iași, Oct. 12-14, 2006, pp. 629-635, ISSN 1223-8139.
- [E72]. L. Cret, M. Plesa, **Dan D. Micu**, D. Stet, E. Simion, *Remarks on the optimal design of coils for magnetic stimulation of nerve fibers*, International Conference on Electrical & Power Engineering, Iași, Oct. 12-14, 2006, pp. 647-653, ISSN 1223-8139.
- [E73]. **Dan D. Micu**, D. Micu, E. Simion, A. Ceclan, *Stability studies for electric circuits exposed to perturbations. Numerical techniques*, International Conference on Electrical & Power Engineering, Iași, Oct. 12-14 2006, pp. 725-731, ISSN 1223-8139.
- [E74]. **Dan D. Micu**, A. Ceclan, D. Micu, E. Simion, L. Cret, *Stability studies of electrical circuits using Wielandt-Kantorovitch inequality*, 1st International Conference on Modern Power Systems MPS 2006, Nov. 8-11, 2006, pp. 253-257, Acta Electrotehnica, vol. 47, Nr. 4., ISSN 1841-3323.
- [E75]. L. Cret, M. Plesa, **Dan D. Micu**, *Magnetic coils for localized stimulation of the central nervous system*, 1st International Conference on Modern Power Systems MPS 2006, Nov. 8-11, 2006, pp. 225-229, Acta Electrotehnica, vol. 47, Nr. 4., ISSN 1841-3323.

- [E76]. A. Nicu, **Dan D. Micu**, D. Rafiroiu, *Overview on the equivalent circuit method for electrical analysis of biological tissues*, 1st International Conference on Modern Power Systems MPS 2006, Nov. 8-11, 2006, pp. 271-275, Acta Electrotehnica, vol. 47, Nr. 4., ISSN 1841-3323.
- [E77]. A. Ceclan, **Dan D. Micu**, R. Rusu, E. Simion, *Energy saving technique and product for public lighting systems*, 1st International Conference on Modern Power Systems MPS 2006, Nov. 8-11, 2006, pp. 95-101, Acta Electrotehnica, vol. 47, Nr. 4., ISSN 1841-3323.
- [E78]. A. Ceclan, **Dan D. Micu**, D. Micu, E. Simion, *Tikhonov regularization for electric field synthesis*, 5th European Conference on Numerical Methods in Electromagnetism, Lille, France, 29 Nov.- 1 Dec. 2006, pp. 175-178.
- [E79]. A. Ceclan, **Dan D. Micu**, St. Ungureanu, A. Lungu, C. Dancan, *Synthesis Identification of Electric Field Sources*, International Conference on Renewable Sources and Environmental Electro-Technologies RSEE, Oradea, 24-26 May 2007, pp. 73-78, ISSN-1223-2106.
- [E80]. A. Ceclan, **Dan D. Micu**, A. Pop, L. Czumbil, *Scripts of Power Factor Correction*, International Conference on Renewable Sources and Environmental Electro-Technologies, Oradea, 24-26 May 2007, pp. 141-144, ISSN-1223-2106.
- [E81]. **Dan D. Micu**, Lucian Man, Denisa Stet, Andrei Ceclan and Emil Simion, *Electromagnetic interferences between ac systems and metallic structures*, International Symposium on Electromagnetic Fields in Mechatronics, Electrical and Electronic Engineering, ISEF'2007, 13-15 September, Prague, Czech Republic, ISBN 978-80-01-03784-3, pp. 402-404.
- [E82]. A. Ceclan, **Dan D. Micu**, Dan Micu, Lucian Man, Emil Simion, *Regularization method for ill-conditioned linear systems of equations*, International Symposium on Electromagnetic Fields in Mechatronics, Electrical and Electronic Engineering, ISEF'2007, Prague, ISBN 978-80-01-03784-3, pp. 259 – 262.
- [E83]. Andrei Ceclan, Emil Simion, **Dan D. Micu**, Dan Micu, Lucian Man, *Synthesis identification of electric field sources*, National Symposium of Theoretical Electrical Engineering, SNET'2007, Bucuresti, 12-14 octombrie 2007, ISBN 978-973-718-899-1, pp. 273-278.
- [E84]. D. Micu, Adriana Micu, L. Chira, **Dan D. Micu**, A new method for the study of perturbations in electric circuits, National Symposium of Theoretical Electrical Engineering, SNET'2007, Bucuresti, 12-14 octombrie 2007, ISBN 978-973-718-899-1, pp. 155-160.
- [E85]. Andrei Ceclan, **Dan D. Micu**, Dan Micu, *2D Magnetic Field Numerical Synthesis*, Scientific Bulletin of the „Politehnica” University of Timisoara, Proceedings of the 7th International Power Systems Conference, November 2007, Timisoara, Romania, pp. 135 – 140, ISSN: 1582-7194.
- [E86]. Andrei Ceclan, Stefan Kilyeni, Constantin Barbulescu, **Dan D. Micu**, Denisa Stet, Laura Darabant, *Condition Number as an Estimate Tool for Power Systems Small Perturbation Stability*, Scientific Bulletin of the „Politehnica” University of Timisoara, Proceedings of the 7th International Power Systems Conference, November 2007, Timisoara, Romania, pp. 141 – 144, ISSN: 1582-7194.
- [E87]. Simona Ardelean, Andrei Ceclan, **Dan D. Micu**, Emil Simion, *On Industrial consumers optimal selection of the electrical energy tariff by software automated solution*, Scientific Bulletin of the „Politehnica” University of Timisoara, Proceedings of the 7th International Power Systems Conference, November 2007, Timisoara, Romania, pp. 9 – 14, ISSN: 1582-7194.
- [E88]. L.Man, **Dan D. Micu**, *Simulation of electromagnetic interferences between AC systems and metallic structures*, International conference control and Information Technology, IWCIT 2007, 6-7 Sept. 2007, Ostrava, Cehia, pp. 187-190, ISBN 978-80-248-1567-1.
- [E89]. L. Man, A. Ceclan, **Dan D. Micu**, *Numerical and Analytical Electromagnetic Device Synthesis Design*, International conference control and Information Technology, IWCIT 2007, 6-7 Sept. 2007, Ostrava, Cehia, pp. 191-194, ISBN 978-80-248-1567-1.
- [E90]. **Dan D. Micu**, Iosif Lingvay, Andrei Ceclan, Emil Simion, *Computation of the induced AC potential on gas pipelines for complex rights-of-way configurations*, International conference on advancements of medicine and health care through technology, MEDITECH 2007, 27-29 sept. 2007, Acta Electrotehnica, vol. 48, nr. 4, 2007, ISSN 1841-3323, pp. 343-347.
- [E91]. L. Man, **Dan D. Micu**, L. Cret, E. Simion, *Software simulation of the induced density current in metallic structures*, International conference on advancements of medicine and health care through technology, MEDITECH 2007, 27-29 sept. 2007, Acta Electrotehnica, vol. 48, nr. 4, 2007, ISSN 1841-3323, pp. 327-330.

- [E92]. L. Cret, M. Plesa, R. Ciupa, **Dan D. Micu**, L. Man, *Energy efficient coils for magnetic stimulation of peripheral nerves*, International conference on advancements of medicine and health care through technology, MEDITECH 2007, 27-29 sept. 2007, Acta Electrotehnica, vol. 48, nr. 4, 2007, ISSN 1841-3323, pp. 339-342.
- [E93]. Emil Simion, Andrei Ceclan, **Dan D. Micu**, Dan Micu, *Inverse Problem Identification of Electric Field Sources*, Proceeding of the International Symposium on Electrical Engineering and Energy Converters, ELS 2007, September 2007, Suceava, Romania, pp. 257 – 263, ISBN: 978-973-666-259-1.
- [E94]. L. Man, **Dan D. Micu**, I. Lingvay, E. Simion, L. Cret, *Numerical modeling of perturbations produced by a.c. electrical traction system*, 6th International Conference Study and Control of Corrosion in the Perspective of Sustainable Development of Urban Distribution Grids, 20-23 June 2007, Cluj-Napoca, URB-CORR 2007, pp. 35-41, ISBN (13) 978-973-718-756-7.
- [E95]. Andrei Ceclan, **Dan D. Micu**, Dan Micu, Emil Simion, *Electromagnetic Device Design Synthesis*, ICEM-2007, Conferinta Internationala de Electromecanica, Petrosani, Romania, 24 – 26 Mai, 2007, ISSN 1454-9166.
- [E96]. Dan Micu, **Dan D. Micu**, Andrei Ceclan and Emil Simion, *Numerical method for a Meridian Plane of Symmetry of an Electrostatic Model*, 6th International Conference on Electromechanical and Power Systems, SIELMEN'07, Chisinau, 2007, ISSN 1582-7194.
- [E97]. Andrei Ceclan, Constantin Barbulescu, Stefan Kilyeni, Dan Micu, **Dan D. Micu**, Emil Simion, *Power Flow Non-linear System of Equations with SVD Regularization Newton Method*, 6th International Conference on Electromechanical and Power Systems, SIELMEN'07, Chisinau, 2007, ISSN 1582-7194.
- [E98]. Rodica Cret, Mihaela Plesa, E. Simion, **Dan D. Micu**, *Numerical modeling of non-homogenous dielectrics with very different permittivities of the components*, International Congress on Advanced Electromagnetic Materials in Microwaves and Optics, Roma, Italia, 22-24 Oct. 2007, pp. 189-192, ISSN 1873-1988.
- [E99]. A. Ceclan, **Dan D. Micu**, Dan O. Micu, L. Man, E. Simion, *Synthesis design of electromagnetic device for magnetic treatment of textile bands*, in *Proceedings of International Aegean Conference on Electrical Machines*, pp. 236-239, 2007.
- [E100]. Dan D. Micu, Andrei Ceclan, Vlad Pavlovschi, *Numerical interpolation methods in electromagnetic interference problems*, The 6th Symposium of Electromagnetic Compatibility SICEM 2007, ISBN 978-973-7838-51-3, Politehnica Press, Bucuresti.
- [E101]. **Dan 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.
- [E102]. A. Ceclan, D.O. Micu, L. Czumbil & **Dan 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.
- [E103]. **Dan D. Micu**, A. Ceclan, D.O. Micu, L. Czumbil, D. Șteț & 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.
- [E104]. **Dan 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.
- [E105]. **Dan D. Micu**, Andrei Ceclan, Iosif Lingvay, Emil Simion, *Numerical interpolation methods applied in electromagnetic interference problems*, ICREPQ'08, International Conference on Renewable Energies and Power Quality, Santander (Spain), 12-14 March 2008, ISBN: 978-84-611-9290-8, CD- Paper 283.
- [E106]. **Dan D. Micu**, E. Simion, I. Lingvay, C. Lingvay, *Acelsovezetek elektromágneses zavarásainak szamitasa*, 28th International Conference on Corossion, VEKOR, 15-17 April, 2008, Balatonfured, Hungary, pp. 27-37.
- [E107]. **Dan D. Micu**, Carmen Lingvay, Emil Simion, Iosif Lingvay, *Numerical methods applied in electromagntic interference problems*, 7th International Conference Study and control of corrosion in the perspective of sustainable development of urban DG, 15-27 June, 2008, Oradea, pp. 196-203, ISBN 978-606-521-032-5.
- [E108]. **Dan D. Micu**, Andrei Ceclan, Dan Micu, Levente Czumbil, Denisa Stet, Emil 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, 15-27 June, 2008, Oradea, Romania, pp. 226-230, ISBN 978-606-521-032-5.

- [E109]. Denisa Stet, **Dan D. Micu**, Andrei Ceclan, Laura Darabant, *The study of inductive coupling between HV lines and metallic pipelines using a professional analysis and modeling software*, 7th International Conference Study and control of corrosion in the perspective of sustainable development of urban distribution grids, 15-27 June, 2008, Oradea, Romania, pp. 260-265, ISBN 978-606-521-032-5.
- [E110]. **Dan D. Micu**, Denisa Stet, Vlad Pavlovski, Andrei Ceclan, Francisc Hathazi, Darie Soproni, *Numerical procedures applied in electromagnetic interference problems*, 13th IEEE Conference on Electromagnetic Field Computation, May 11-15 2008, Athens, Greece, CD-PD2-11 (320).
- [E111]. Laura Darabant, Mihaela Plesa, **Dan D. Micu**, Denisa Stet, Radu Ciupa, *Energy efficient coils for magnetic stimulation of peripheral nerves*, 13th IEEE Conference on Electromagnetic Field Computation, May 11-15 2008, Athens, Greece, CD-PF5-12 (577).
- [E112]. Radu Ciupa, Laura Darabant, Mihaela Plesa, Octavian Cret, **Dan D. Micu**, *Energy consideration in magnetic coils design*, Symposium of Theoretical Electrical Engineering, SNET'08, 5-7 June 2008, Bucuresti, Romania, pp. 13-18, ISBN 978-606-521-045-5.
- [E113]. **Dan D. Micu**, Iosif Lingvai, Carmen Lingvai, Emil Simion, Andrei Ceclan, *Complex interpolation methods applied in electromagnetic compatibility problems*, Symposium of Theoretical Electrical Engineering, SNET'08, 5-7 June 2008, Bucuresti, Romania, pp. 25-30, ISBN 978-606-521-045-5.
- [E114]. Dan Micu, A. Micu, Lazar Chira, **Dan D. Micu**, *Performante ale circuitelor rau conditionate*, Symposium of Theoretical Electrical Engineering, 5-7 June 2008, Bucuresti, pp. 200-205, 978-606-521-045-5.
- [E115]. A. Ceclan, **Dan D. Micu**, D. Micu, L. Czumbil, *On an inverse approach of Monte Carlo simulation interference problem*, Symposium of Theoretical Electrical Engineering, SNET'08, 5-7 June 2008, Bucuresti, Romania, pp. 230-234, ISBN 978-606-521-045-5.
- [E116]. **Dan D. Micu**, Dan Micu, Andrei Ceclan, Emil Simion, *Interaction between an overhead single conductor and a two-layer earth. Analytical and numerical development*, 2nd International Conference on Modern Power Systems, Cluj-Napoca, 12-14 Nov. 2008, Acta Electrotehnica, pp. 378-382, ISSN 1841-3323.
- [E117]. D. Micu, **Dan D. Micu**, L. Chira, *The design optimization for an electrical circuit using the geometrical inversion with parametrical elements*, 2nd International Conference on Modern Power Systems, MPS 2008, Cluj-Napoca, 12-14 Nov., Acta Electrotehnica Special Issue, pp. 374-378, ISSN 1841-3323.
- [E118]. Gh. Vuc, C. Barbulescu, A. Ceclan, **Dan D. Micu**, *New software tool designed for stochastic power system analysis*, 2nd International Conference on Modern Power Systems, MPS 2008, Cluj-Napoca, 12-14 Nov., Acta Electrotehnica Special Issue, pp. 191-195, ISSN 1841-3323.
- [E119]. B. Manea, **Dan D. Micu**, R. Munteanu jr., D. Popovici, O. Popovici, *Overview of methods and models regarding the electromagnetic field exposure near HV lines*, 2nd International Conference on Modern Power Systems, MPS 2008, Cluj-Napoca, 12-14 Nov., Acta Electrotehnica, pp. 309-312, ISSN 1841-3323.
- [E120]. Denisa Stet, **Dan D. Micu**, A. Ceclan, Laura Darabant, Mihaela Plesa, *The study of the electromagnetic interferences between HV lines and metallic pipelines using a professional analysis software*, 2nd International Conference on Modern Power Systems, MPS 2008, Cluj-Napoca, 12-14 Nov., Acta Electrotehnica Special Issue, pp. 333-337, ISSN 1841-3323.
- [E121]. A. Ceclan, D.O. Micu, L. Czumbil, **Dan D. Micu** & E. Simion: „Numerical Monte Carlo Formulation of an Electromagnetic Interference Problem”, *Acta Electrotehnica*, ISSN: 1841-3323, *2nd International Conference on Modern Power Systems*, pp. 273-277, Cluj-Napoca, Romania, November 12-14, 2008.
- [E122]. **Dan D. Micu**, L. Czumbil, A. Ceclan, E. Simion: „Software for Industrial Consumers Electrical Energy Tariff Optimal Selection”, *Journal of Electrical and Electronics Engineering*, ISSN: 1844-6035, pp. 90-94, 2008
- [E123]. A. Ceclan, **Dan D. Micu**, E. Simion, L. Czumbil, A. Mutu & C. Boca: „On an Energy Efficiency Strategy for Romanian Water Companies”, *Acta Electrotehnica*, ISSN: 1841-3323, *Proceedings of the 2nd International Conference on Modern Power Systems*, pp. 273-277, Cluj-Napoca, Romania, November 12-14, 2008.
- [E124]. A. Ceclan, **Dan 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.
- [E125]. **Dan D. Micu**, A. Pop, A. Ceclan, E. Simion, Power factor correction, controlling voltage distortion, *Journal of Electrical and Electronics Engineering*, Vol.1, ISS. 1 2008, pp. 85-89, ISSN: 18446035 Source Type: Journal
- [E126]. Anca Mutu, A. Ceclan, S. Pavel, **Dan D. Micu**, I. Vadan, On the implementation of a micro hydropower plant on Gersa river, Bistrita, Romania, *Journal of Electrical and Electronics Engineering*, Vol.1, ISS. 1 2008, pp. 98-101, ISSN: 18446035 Source Type: Journal

- [E127]. F. Szombatfalvi-Torok, E. Simion, A. Ceclan, **Dan 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.
- [E128]. F. Szombatfalvi-Torok, E. Simion, A. Ceclan, **Dan 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
- [E129]. **Dan D. Micu**, E. Simion, L. Czumbil, D. Csala, *Neural Networks applied in Electromagnetic Interference Problems*, 6th Japanese-Mediterranean Workshop on Applied Electromagnetic Engineering for Magnetic, Superconducting and Nano Materials, July 27-29, 2009, Bucuresti, pp. 109-110, ISBN 978-606-521-346-3.
- [E130]. **Dan 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.
- [E131]. D. Şteţ, **Dan 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.
- [E132]. **Dan D. Micu**, L. Czumbil, A. Ceclan, E. Simion, Denisa Stet, Liliana Cimpan, *Neural Networks Evaluation of Electromagnetic Interferences between HV Power Lines and Underground Metallic Pipelines*, Journal of Electrical and Electronics Engineering, Vol. 2, Nr. 1, 2009, pag. 73-79, ISSN: 1844-6035.
- [E133]. Levente Czumbil, **Dan D. Micu**, Andrei Ceclan, Emil Simion, Denisa Stet, *Induced a.c. potential evaluation based on a hybrid method*, 6th International Conference on electrical and power engineering, Iasi, 2010
- [E134]. Mircea Buzdugan, **Dan D. Micu**, M. Munteanu, E. Simion, L. Cimpan, *Some electromagnetic biocompatibility issues on human exposure to electromagnetic fields*, EPE -EMC 2010 6th International Conference on electromagnetic compatibility and engineering in medicine, Iasi, Romania, 28-30 oct. 2010
- [E135]. D. Şteţ, E. Simion, **Dan D. Micu**, L. Darabant, L. Czumbil, A. Ceclan, *Electromagnetic Interference study based on professional software*, EPE 2010 6th International Conference on electrical and power engineering, Iasi, Romania, 28-30 oct. 2010
- [E136]. Andrei Ceclan, Vasile Țopa, **Dan D. Micu**, Levente Czumbil, Denisa Şteţ, *On a new procedure of harmonic regularization applied in return stroke current identification*, EPE 2010 6th International Conference on electrical and power engineering, Iasi, Romania, 28-30 oct. 2010
- [E137]. L. Czumbil, **Dan D. Micu**, A. Ceclan, D. Stet, D.O. Micu, *Fuzzy Logic – Genetic Algorithm Method to Evaluate the Magnetic Vector Potential*, WSEAS International Conference on Mathematical Methods and Computational Techniques in Electrical Engineering, Timisoara, Romania, 20-23 Oct. 2010
- [E138]. **Dan D. Micu**, Levente Czumbil, Alexis Polycarpou, Andrei Ceclan, Denisa Şteţ, *Analysis of electromagnetic interference problems through an innovative Monte Carlo -Neural Network method*, International Conference on Mediterranean Power, Med-Power 2010, 7-11 Nov. 2010
- [E139]. D. Şteţ, **Dan 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.
- [E140]. L. Czumbil, **Dan D. Micu**, G.C. Christoforidis, A. Ceclan & D. Şteţ: „Hybrid Method for Induced AC Voltages Determination”, *Acta Electrotechnica*, 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, May 17-20, 2011.
- [E141]. **Dan 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.
- [E142]. A. Ceclan, V. Țopa, **Dan 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.
- [E143]. D. Şteţ, **Dan 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.
- [E144]. **Dan 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.

- [E145]. Andrei Ceclan, Vasile Țopa, **Dan D. Micu**, Amedeo Andreotti, Lightning Inverse Reconstruction by Remote Sensing, *15th Biennial IEEE Conference on Electromagnetic Field Computation CEFC*, Oita-Japan, 2012.
- [E146]. **Dan D. Micu**, G.C. Christoforidis, T.A. Papadopoulos, L. Czumbil & D. Șteț: „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.
- [E147]. D. Șteț, L. Czumbil, **Dan D. Micu** & L. Ancăș: „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.
- [E148]. **Dan D. Micu**, L. Czumbil, Ș.F. Braicu, & S. Hanc: „Electromagnetic Field Distribution Around High Voltage Power Lines”, *17th International Symposium Power Electronics*, Novi Sad, Serbia, Oct 30 – Nov 1, 2013.
- [E149]. L. Czumbil, A. Ceclan, **Dan D. Micu**, D. Șteț, 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.
- [E150]. L. Czumbil, **Dan D. Micu**, D. Șteț & 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.
- [E151]. D. Șteț, L. Czumbil & **Dan 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)*, Chișinău, Rep. Moldova, October 8-9, 2015.
- [E152]. R. Radu, **Dan D. Micu**, Inrush current of a group of transformers - effect of the secondary load, *Acta Electrotehnica*, vol. 56, pp. 122-128, 2015.

February 2021

Professor Dan D. Micu