

SCIENTIFIC PUBLICATIONS

A. Teza doctorat:

Contributii la regularizarea unor probleme electro-magnetice inverse incorect formulate
(Eng. *Contributions on the regularization of some ill-posed electromagnetic inverse problems*),
Universitatea Tehnica din Cluj-Napoca; 2009.

B. Proiecte de cercetare / Granturi:

PROIECTE DE CERCETARE IN COMPETITII INTERNATIONALE		
	TITLU	Implicare
1	<i>Generate energy efficient acting and Results at small & medium enterprises</i> , 894356 – GEAR@SME – H2020-LC-SC3-2018-2019-2020 / H2020-LC-SC3-EE-2019, 2020-2022.	Manager de proiect
2	<i>Meeting the Energy Professionals Skills</i> , 649773 - MENS - H2020-EE-2014-2015/H2020-EE-2014-3-MarketUptake, 2015-2017 www.mens-nzeb.eu	Membru
3	<i>Demand Response in Blocks of Buildings</i> , 696114 - DR-BOB - H2020-EE-2014-2015/H2020-EE-2015-2-RIA, 2016-2019 www.dr-bob.eu	Membru
4	<i>A holistic framework for Empowering SME's capacity to increase their energy efficiency</i> , 847132-SMEmPower Efficiency-H2020-LC-SC3-2018-2019-2020/H2020-LC-SC3-EE-2018, 2019-2022 www.smempower.com	Membru
5	<i>Renewable Cogeneration and Storage Technologies Integration for energy Autonomous Buildings</i> , 815301-RE-COGNITION-H2020-LC-SC3-2018-2019-2020/H2020-LC-SC3-2018-RESTwoStages, 2019-2022 www.re-cognition-project.eu	Membru
6	<i>Enabling new Demand Response Advanced, market oriented and secure technologies, solutions and business models</i> , 774478 – eDREAM – H2020-LCE-2016-2017/H2020-LCE-2017-SGS, 2018-2021 www.edream-h2020.eu	Membru
7	<i>Integrated multi-vector management system for Energy isLANDs</i> , 824388 – eLAND – H2020-LCE-2018-2021, www.elandh2020.eu	Membru
8	Member of H2020-LCE-2017-RIA, ID: 774478/ 2018-2021 , <i>Enabling new Demand Response Advanced, Market oriented and Secure Technologies, solutions and business models – eDREAM</i> . www.edream-h2020.eu	Membru

PROIECTE DE CERCETARE IN COMPETITII NATIONALE		
	TITLU	Implicare
1	CNCSIS TE 34/09.08.2010: Modeling, prediction and design solutions, with maximum effectiveness, for reducing the impact of stray currents on underground metallic gas pipelines, 2010-2013 .	Membru
2	CNCSIS AT_224: Optimized construction of electromagnetic devices based on electromagnetic field synthesis in inaccessible heterogeneous environments 2007-2008 .	Membru
3	CEEX, nr. X2C37/2006: The impact of electromagnetic fields on anthropic ecosystems – ICEMECOS, Project Manager: prof. dr. ing. Claudia Popescu (Politehnica University of Bucharest); UTCN partener reprezentant: prof. dr. ing. Dan Doru Micu, 2007-2008 .	Membru
4	CEEX, nr. 6856/2006: 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); UTCN partener reprezentant: prof. dr. ing. Emil Simion, 2008-2009 .	Membru
5	CEEX, nr. 136/2006: 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); UTCN partener reprezentant: prof. dr. ing. Emil Simion, 2008-2009 .	Membru
6	CNCSIS nr. 1279/2006: The influence of electromagnetic fields on operational stability and performance of combustion installations, Project Manager: prof. dr. ing. Emil Simion (UTCN), 2006 .	Membru
7	PN-II-ID-PCE-2007-1, nr. ID_1024: 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, 2007 .	Membru
8	PN-II-Nr. 22122/2008: Intelligent diagnosis and prediction system for preventing power cable damages – CABDIAG, Project Manager: ing. Carmen Lingvay (ICPE-CA Bucuresti); UTCN partener reprezentant: prof. dr. ing. Emil Simion, 2008 .	Membru
9	PN-II nr. 51-082/2007: Microwave technologies used to improve the quality of sored agricultural seeds Project Manager: conf. dr. ing. Darie Soproni (University of Oradea); UTCN partener reprezentant: prof. dr. ing. Vasile Iancu, 2007 .	Membru
10	Imbunatatirea tehnologiei de fabricatie a caramizilor "ECO-FRIENDLY" - PN-III-P2-2.1-BG-2016-0203, Nr. 71BG/2016, 2016-2018 .	Membru

PROIECTE DE CERCETARE IN COMPETITII NATIONALE		
	TITLU	Implicare
11	Grant Post-Doc, Research contract PRiDE , <i>On some procedures of electric and magnetic field synthesis applied to the return stroke current reconstruction</i> . No. POSDRU/89/1.5/S/57083, 2010-2013 .	Manager de proiect
12	Director of TD grant, CNCSIS, no. 532/2007. Duration: 2007-2008 : On some electromagnetic inverse problems solving – concept, software, solenoidal devices.	Manager de proiect
13	Norwegian Bilateral Contract, no. 28407/ 2017 , <i>Enhancing the transfer of research and development methods in energy related clusters from Norway and Romania – EmPower Efficiency</i> .	Membru

PROIECTE DE CERCETARE CU TERTII		
	TITLU	Implicare
1	Contract no. 23990/ 2014-2015 : Inovative research instruments for an energy efficient University, Internal <i>R&D</i> project won by competition inside Technical University of Cluj-Napoca.	Manager de proiect
2	Energobit, no. 43/ 2012 , Induced electromagnetic interferences in the shielding of power cables.	Membru
3	Romatsa, no. 018/ 2013 , Studies regarding lightning protection of DSNA Cluj and DR București, Section PNA/CNS Cluj equipment's, against overvoltages and electromagnetic impulses.	Membru

C. Carti publicate sau capitole de carti:

1. Dan D. Micu, Laura Dărăbant, Denisa Șteț, M. Crețu, **Andrei Ceclan** & L. Czumbil: *Teoria Circuitelor Electrice. Probleme*, Ed. U.T. Press, ISBN: 978-606-737-140-6, pag. 280, Cluj-Napoca, Romania, **2016**.
2. Dan D. Micu, **Andrei Ceclan**, L. Czumbil & D. Csala: *Numerical Methods*, Ed. Mediamira, ISBN: 978-973-713-278-9, Cluj-Napoca, Romania, **2010**.
3. Dan D. Micu, **Andrei Ceclan**, Metode numerice. Aplicații în ingineria electrică, Ed. Mediamira, Cluj-Napoca, ISBN 978-973-713-140-9, **2007**.

D. Articole publicate in reviste ISI:

1. **Andrei Ceclan**, Vasile Țopa, Dan D. Micu, Amedeo Andreotti, Lightning Inverse Reconstruction by Remote Sensing and Field Synthesis, *IEEE Transactions on Magnetics*, Vol. 49, Issue 5, **2013**;
2. **Andrei Ceclan**, V. Țopa, Dan D. Micu, L. Czumbil, Andreea Șimon & Octavian Creț: „Improved Framework for Monte Carlo Numerical Evaluations in Field Interference Problems”, *International Journal of Applied Electromagnetics and Mechanics*, ISSN: 1383-5416, vol. 39, no. 1-4, pp. 693-698, **2012**, Doi: [10.3233/JAE-2012-1530](https://doi.org/10.3233/JAE-2012-1530), WOS: 000309602700096, **IF_2017 = 0.804** (conf. art.)
3. Dan D. Micu, L. Czumbil, G.C. Christoforidis, **Andrei Ceclan** & Denisa Șteț: „Evaluation of Induced AC Voltages in Underground Metallic Pipeline”, *COMPEL: The International Journal for Computation and Mathematics in Electrical and Electronic Engineering*, ISSN: 0332-1649, vol. 31, no. 4, pp.1133-1143, **2012**. Doi: [10.1108/0332164121122737](https://doi.org/10.1108/0332164121122737), WOS: 000308896700009, **IF_2017 = 0.543**
4. Denisa Șteț, Dan D. Micu, L. Czumbil, Laura Dărăbant, & **Andrei Ceclan**: „Simulation of Interferences between Power Lines and Gas Pipelines in Unbalanced Phase Currents State”, *COMPEL: The International Journal for Computation and Mathematics in Electrical and Electronic Engineering*, ISSN: 0332-1649, vol. 31, no. 4, pp.1718-1189, **2012**. Doi: [10.1108/03321641211227447](https://doi.org/10.1108/03321641211227447), WOS: 000308896700014, **IF_2017 = 0.543**
5. Dan D. Micu, L. Czumbil, G.C. Christoforidis & **Andrei Ceclan**: „Layer Recurrent Neural Network Solution for an Electromagnetic Interference Problem”, *IEEE Transaction on Magnetics*, ISSN: 0018-9464, vol. 47, no. 5, pp. 1410-1413, May, **2011**. Doi: [10.1109/TMAG.2010.2091494](https://doi.org/10.1109/TMAG.2010.2091494), WOS: 000289909100138, **IF_2017 = 1.467**
6. 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, IOS Press, ISSN 1383-5416, pp. 243-251, **2007**.

E. Articole publicate in Proceeding-uri ISI:

1. Levente Czumbil, Denisa Șteț, **Andrei Ceclan**, Laura Dărăbant, Mihaela 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](https://doi.org/10.1109/UPEC.2018.8541993) WOS: 000468972100126

2. B. Bârgăuan, M. Crețu, O. Fati, **Andrei Ceclan**, Laura Dărăbant, **Dan D. Micu**, Denisa Șteț & L. Czumbil: „Energy Management System for the Demand Response in TUCN Buildings”, *53rd International Universities Power Engineering Conference (UPEC)*, ISBN: 978-1-5386-2910-9, Glasgow, UK, September 4-7, **2018**. Doi: [10.1109/UPEC.2018.8541949](https://doi.org/10.1109/UPEC.2018.8541949) WOS: 000468972100095
3. B. Bârgăuan, O. Fati, **Andrei Ceclan**, Dan D. Micu, Denisa Șteț, L. Czumbil & Paul Mureșan: „Demand Response on Blocks of Buildings – Romanian Pilot Site Innovation Project”, *7th International Conference on Modern Power Systems (MPS)*, ISBN: 978-1-5090-6565-3, Cluj-Napoca, Romania, June 6-9, **2017**. Doi: [10.1109/MPS.2017.7974433](https://doi.org/10.1109/MPS.2017.7974433) WOS:000428462600061
4. Denisa Șteț, L. Czumbil, **Andrei Ceclan**, Laura 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](https://doi.org/10.1109/MPS.2017.7974457) WOS:000428462600085
5. **Andrei Ceclan**, Dan D. Micu, Denisa Șteț, L. Czumbil, P. Mureșan, B. Bârgăuan, D. Dranca & H. Pop: „Urban Energy Management - Cluj-Napoca Approach”, *7th International Conference on Modern Power Systems (MPS)*, ISBN:978-1-5090-6565-3, Cluj-Napoca, Romania, June 6-9, **2017**. Doi: [10.1109/MPS.2017.7974432](https://doi.org/10.1109/MPS.2017.7974432) WOS:000428462600060
6. Ș.F. Braicu, L. Czumbil, Dan D. Micu, Denisa Șteț, **Andrei Ceclan**, E. Simion & H. Nouri: „Load Flow Analysis in a 110/20 kV Romanian Substation”, *7th International Conference on Modern Power Systems (MPS)*, ISBN:978-1-5090-6565-3, Cluj-Napoca, Romania, June 6-9, **2017**. Doi: [10.1109/MPS.2017.7974421](https://doi.org/10.1109/MPS.2017.7974421) WOS:000428462600049
7. L. Czumbil, Ș.F. Braicu, Dan D. Micu, Denisa Șteț & **Andrei Ceclan**: „Analysis of Load Flow and Short-Circuit Issues in a Retrofitted 110/20 kV Romanian Substation”, *14th International Conference on Engineering of Modern Electric Systems (EMES)*, ISBN: 978-1-5090-6073-3, Oradea, Romania, June 1-2, **2017**. Doi: [10.1109/EMES.2017.7980371](https://doi.org/10.1109/EMES.2017.7980371) WOS: 000427085200004
8. Dan D. Micu, B. Bârgăuan, **Andrei Ceclan**, Denisa Șteț, L. Czumbil, A. Căținean & A. Polycarpou: „On a Demand Response Pilot Demonstration in the Technical University of Cluj-Napoca”, *9th International Conference and Exposition on Electrical and Power Engineering (EPE)*, ISBN: 978-1-5090-6128-0, pp. 785-791, Iași, Romania, October 20-22, **2016**. Doi: [10.1109/ICEPE.2016.7781445](https://doi.org/10.1109/ICEPE.2016.7781445) WOS: 000390706300155
9. L. Czumbil, **Dan D. Micu**, Denisa Șteț & **Andrei Ceclan**: „A Neural Network approach for the Inductive Coupling between Overhead Power Lines and nearby Metallic Pipelines”, *International Symposium on Fundamentals of Electrical Engineering (ISFEE)*, ISBN: 978-1-4673-9575-5, Bucharest, Romania, June 30–July 02, **2016**.
Doi: [10.1109/ISFEE.2016.7803231](https://doi.org/10.1109/ISFEE.2016.7803231) WOS: 000392434400083

10. Radu, R.-A., Micu, D.O., Dan D. Micu, **Andrei 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**.
11. **Andrei Ceclan**, A. Holhos, Dan D. Micu, Sorin Spinean, L. Czumbil & A. Andreotti: „Lightning Return Stroke Current Reconstruction for Vertical and Variable Channel Shape”, *International Conference on Lightning Protection (ICLP)*, ISBN: 978-1-4799-3544-4, pp. 1370-1375, Shanghai, China, October 11-18, **2014**. Doi: [10.1109/ICLP.2014.6973344](https://doi.org/10.1109/ICLP.2014.6973344) WOS: 000358572100260
12. **Andrei Ceclan**, Vasile Țopa, Dan D. Micu and Amedeo Andreotti, Return Stroke Current Remote Sensing, Based on Solving an Inverse ill-posed Problem, EPE 2012 - Proceedings of the 2012 International Conference and Exposition on Electrical and Power Engineering, art. no. 6463846, pp. 717-722 (EPE), Iasi, Romania, 2012. 10.1109/ICEPE.2012.6463846
13. **Andrei Ceclan**, Vasile Țopa, 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**.
14. **Andrei Ceclan**, Vasile Țopa, Dan D. Micu, Amedeo Andreotti, Lightning Inverse Reconstruction by Remote Sensing and Field Synthesis, CEFC, The 15th Biennial IEEE Conference on Electromagnetic Field Computation, Oita-Japan, **2012**. [IEEE]
15. Dan D. Micu, L. Czumbil, **Andrei Ceclan**, Laura Dărăbant, Denisa 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](https://doi.org/10.1109/EPQU.2009.5318842) WOS: 000274778700024
16. L. Czumbil, Dan D. Micu & **Andrei Ceclan**: „Artificial Intelligence Techniques Applied to Electromagnetic Interference Problems”, *IFMBE Proceedings*, ISSN: 1680-0737, vol. 26, pp. 339-344, presented at *International Conference on Advancements of Medicine and Health Care Through Technology (MediTech)*, September 23-26, **2009**. Doi: [10.1007/978-3-642-04292-8_75](https://doi.org/10.1007/978-3-642-04292-8_75) WOS: 000281139900075
17. Dan D. Micu, L. Czumbil, **Andrei Ceclan** & Laura 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

18. **Andrei 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 (HIS)*, ISBN: 978-1-4244-1542-7, pp. 390-393, Krakow, Poland, May 25-27, **2008**. Doi: [10.1109/HIS.2008.4581470](https://doi.org/10.1109/HIS.2008.4581470) WOS: 000259867600072

19. **Andrei 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, Braşov, Romania, May 22-24, **2008**. Doi: [10.1109/OPTIM.2008.4602346](https://doi.org/10.1109/OPTIM.2008.4602346) WOS: WOS:000258474200012

20. **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

21. 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

22. Constantin Bărbulescu, **Andrei Ceclan**, Ştefan Kilyeni, Power Flow Calculation for III-Conditioned Systems. Simplified Newton Method with SVD Partial Regularization, EUROCON **2007**, The International Conference on “Computer as a tool”, Warsaw, September 9-12, pp. 1481 – 1484, ISBN: 1-4244-0813-X. 10.1109/EURCON.2007.4400667.

F. Articole indexate in baze de date internationale:

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

2. M. Creţu, **Andrei Ceclan**, L. Czumbil, Denisa Şteţ, B. Bărgăuan & 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, Cluj-Napoca, Romania, May 21-23, **2019**. DOI: [10.1109/MPS.2019.8759770](https://doi.org/10.1109/MPS.2019.8759770) (IEEEExplore)

3. L. Czumbil, Dan D. Micu, Denisa Şteţ & **Andrei Ceclan**: „Inductive Coupling between Overhead Power Lines and nearby Metallic Pipelines. A Neural Network Approach”, *Carpathian Journal of Electrical Engineering (CJEE)*, ISSN: 1843-7583, vol. 9, no. 1, pp. 29-44, **2015**. (EBSCO, DOAJ)
4. L. Czumbil, G.C. Christoforidis, Dan D. Micu, Denisa Şteţ, **Andrei 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**. (IEEEXplore)
5. **Andrei Ceclan**, V. Ţopa, 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](https://doi.org/10.1109/ICCEP.2011.6036299) (IEEEXplore)
6. L. Czumbil, Dan D. Micu, G.C. Christoforidis, **Andrei Ceclan** & O. Miron: „User Friendly EMI Software for Induced A.C. Potential Evaluation”, *8th International Conference on Computation in Electromagnetics, (CEM)*, Wroclaw, Poland, April 11-14, **2011**. Doi: [10.1049/cp.2011.0055](https://doi.org/10.1049/cp.2011.0055). (IEEEXplore)
7. **Andrei Ceclan**, V. Ţopa, 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](https://doi.org/10.1049/cp.2011.0054) (IEEEXplore)
8. O. Miron, D. Desideri, Dan D. Micu, A. Maschio, **Andrei Ceclan** & L. Czumbil: „Estimation of an Equivalent Short Solenoid Model using Different Numerical Methods”, *8th International Conference on Computation in Electromagnetics, (CEM)*, Wroclaw, Poland, April 11-14, **2011**. Doi: [10.1049/cp.2011.0025](https://doi.org/10.1049/cp.2011.0025) (IEEEXplore,)
9. L. Czumbil, Dan D. Micu, **Andrei Ceclan**, Denisa Şteţ & 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, Timişoara, Romania, October 21-23, **2010**. (Scopus)
10. Dan D. Micu, L. Czumbil, A. Polycarpou, **Andrei Ceclan** & L. Cîmpan: „Analysis of Electromagnetic Interference Problems Proposed to be through an Innovative Monte Carlo – Neural Network Method”, *7th Mediterranean Conference and Exhibition on Power Generation, Transmission, Distribution and Energy Conversion, (MedPower)*, ISBN: 978-184919319-1, Agia Napa, Cyprus, November 07-10, **2010**. Doi: [10.1049/cp.2010.0939](https://doi.org/10.1049/cp.2010.0939) (IEEEXplore, Scopus)
11. Dan D. Micu, L. Czumbil, G.C. Christoforidis & **Andrei Ceclan**: „Proposed Monte Carlo – Neural Network method for solving Electromagnetic Interference problems”, *45th*

International Universities' Power Engineering Conference, (UPEC), ISBN: 978-1-4244-7667-1, Cardiff, Wales, August 31 – September 03, **2010**. (*IEEEExplore, Scopus*)

12. Czumbil L., Dan D. Micu, **Andrei Ceclan**, 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

13. Mircea Buzdugan, Dan D. Micu, Emil Simion, **Andrei Ceclan** and L. Cîmpan, The Electromagnetic Threat in the Today's Environment, IFMBE Proceedings 26, pp. 355, ISSN: 1680-0737. DOI: 10.1007/978-3-642-04292-8_78

14. **Andrei 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, Wales, August 31 – September 03, **2010**. (*IEEEExplore, Scopus*)

15. Dan D. Micu, L. Czumbil, **Andrei Ceclan**, A. Mutu & Denisa Şteţ: „Layer Recurrent Neural Network Solution for an Electromagnetic Interference Problem”, *14th Biennial IEEE Conference on Electromagnetic Field Computation, (CEFC)*, ISBN: 978-1-4244-7059-4, Chicago, USA, May 9-12, **2010**. Doi: [10.1109/CEFC.2010.5481648](https://doi.org/10.1109/CEFC.2010.5481648) (*IEEEExplore, Scopus*)

16. **Andrei 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](https://doi.org/10.1109/CEFC.2010.5481473) (*IEEEExplore, Scopus*)

17. Dan D. Micu, **Andrei 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

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Data: 18 Mai 2020

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