

Universitatea Tehnică din Cluj-Napoca
Facultatea de Inginerie Electrică
Departamentul Electrotehnica și Masurări
Șef lucrări dr.ing. Andrei CECLAN

LISTA

lucrărilor științifice în domeniul disciplinelor din postul didactic

A – Teza de doctorat

Contributions on the regularization of some ill-posed electromagnetic inverse problems

Conducător științific: Prof.dr.ing. Dan MICU
Domeniul Inginerie Electrică
Universitatea Tehnică din Cluj-Napoca
Susținere publică: *Decembrie 2009*

B – Cărți și capitole în cărți publicate în ultimii 10 ani

CĂRȚI

1. 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.
2. **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.
3. 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**.
4. Dan D. Micu, **Andrei Ceclan**, L. Czumbil & D. Csala: *Numerical Methods*, Ed. Mediamira, ISBN: 978-973-713-278-9, Cluj-Napoca, Romania, **2010**.
5. Dan D. Micu, **Andrei Ceclan**, Metode numerice. Aplicații în ingineria electrică, Ed. Mediamira, Cluj-Napoca, ISBN 978-973-713-140-9, **2007**.

C – Lucrări indexate ISI/BDI publicate în ultimii 10 ani

c1) Articole / studii publicate în reviste de specialitate de circulație internațională recunoscute (cotate 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, WOS: 000309602700096, **IF₂₀₁₇ = 0.804**;

3. Dan D. Micu, L. Czumbil, G.C. Christoforidis, **Andrei Ceclan**, Denisa 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, WOS: 000308896700009, **IF₂₀₁₇ = 0.543**;

4. Denisa Şteţ, 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, WOS: 000308896700014, **IF₂₀₁₇ = 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, **2011**. Doi: 10.1109/TMAG.2010.2091494, WOS: 000289909100138, **IF₂₀₁₇ = 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**.

7. Dacian I. Jurj, Levente Czumbil, Bogdan Bârgăuan, **Andrei Ceclan**, Alexis Polycarpou, Dan D. Micu, Custom Outlier Detection for Electrical Energy Consumption Data Applied in Case of Demand Response in Block of Buildings, *Sensors* **2021**, 21(9), 2946; <https://doi.org/10.3390/s21092946>

8. M. Creţu; 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.

c2) Studii publicate la conferinţe indexate în baze de date internaţionale de referinţă în domeniul (DBLP, ACM, IEEE, SCOPUS)¹

1. Levente Czumbil, Denisa Şteţ, **Andrei Ceclan**, Laura Dărăbant, Mihaela Creţu & **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;

2. B. Bârgăuan, M. Creţu, O. Fati, **Andrei Ceclan**, Laura Dărăbant, **Dan D. Micu**, Denisa Şteţ & L. Czumbil: „Energy Management System for the Demand Response in TUCN Buildings”, *53rd International Universities Power Engineering Conference (UPEC)*, ISBN: 978-1-5386-2910-9, Glasgow, UK, September 4-7, **2018**. Doi: 10.1109/UPEC.2018.8541949 WOS: 000468972100095;

3. B. Bârgăuan, O. Fati, **Andrei Ceclan**, Dan D. Micu, Denisa Şteţ, L. Czumbil & Paul 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;

¹ indexate în:

[IEEE] - IEEE Xplore (<http://ieeexplore.ieee.org/Xplore/guesthome.jsp>)

[ACM] - ACM portal (<http://portal.acm.org>)

[DBLP] - (<http://www.informatik.uni-trier.de>)

[SCOPUS] - (<http://www.scopus.com>)

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 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 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 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 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 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**;
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 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 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 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 (HSI)*, ISBN: 978-1-4244-1542-7, pp. 390-393, Krakow, Poland, May 25-27, **2008**. Doi: 10.1109/HSI.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, Brașov, Romania, May 22-24, **2008**. Doi: 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**, Ștefan Kilyeni, Power Flow Calculation for Ill-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.

D – Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți (neindexate)

- Reviste

1. L. Czumbil, Dan D. Micu, Denisa Șteț & **Andrei 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**;
2. L. Czumbil, **Andrei Ceclan**, Dan D. Micu, Denisa 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**;

3. **Andrei 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**;

4. L. Czumbil, Dan D. Micu, G.C. Christoforidis, **Andrei Ceclan** & Denisa Șteț: „Hybrid Method for Induced AC Voltages Determination”, *Acta Electrotehnica*, ISSN: 1841-3323, vol. 52, no. 5, Special Issue: *Proceedings of the 5th International Conference on Modern Power Systems, (MPS)*, pp. 116-120, Cluj-Napoca, Romania, May 17-20, **2011**;

5. **Andrei 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, Special Issue: *Proceedings of the 2nd International Conference on Modern Power Systems, (MPS)*, pp. 273-277, Cluj-Napoca, Romania, November 12-14, **2008**;

6. **Andrei 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, Special Issue: *Proceedings of the 2nd International Conference on Modern Power Systems, (MPS)*, pp. 273-277, Cluj-Napoca, Romania, November 12-14, **2008**;

7. **Andrei 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**;

8. F. Szombatfalvi-Torok, E. Simion, **Andrei 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**;

9. F. Szombatfalvi-Torok, E. Simion, **Andrei Ceclan**, Dan D. Micu, Denisa Șteț & 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**.

- Selecție cu maximum 20 lucrări în volume de conferințe

1. Ș.F. Braicu, L. Czumbil, Denisa Șteț, Dan D. Micu, **Andrei 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 (**IEEEExplore**);

2. M. Crețu, **Andrei Ceclan**, L. Czumbil, Denisa 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, Cluj-Napoca, Romania, May 21-23, **2019**. DOI: 10.1109/MPS.2019.8759770 (**IEEEExplore**);

3. L. Czumbil, Dan D. Micu, Denisa Șteț & **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**. (**IEEEExplore**);
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 (**IEEEExplore**);
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. (**IEEEExplore**);
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 (**IEEEExplore**);
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 (**IEEEExplore**);
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 (**IEEEExplore, 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: 10.1007/978-3-642-04292-875;
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 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 (**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 (**IEEEExplore, Scopus**);

17. Dan D. Micu, **Andrei Ceclan**, Laura Darabant, Denisa Șteț, 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;

18. Dan D. Micu, L. Czumbil, **Andrei Ceclan**, E. Simion, Denisa Șteț & L. Cîmpan: „Neural Network Evaluation of Electromagnetic Interference between HV Power Lines and underground Metallic Pipelines”, *Journal of Electrical and Electronics Engineering*, ISSN: 1844-6035, vol. 2, no. 1, pp. 73-78, **2009**. (**Scopus, EBSCO, DOAJ**);

19. Dan D. Micu, **Andrei Ceclan**, Laura Dărăbant, Denisa Șteț, 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, IEEEExplore, Compendex 14.1104/UPEC, ISBN 978-88-89884-09-6, **2008**;

20. Dan D. Micu, L. Czumbil, **Andrei Ceclan**, S. Ardelean & E. Simion: „Software for Industrial Consumers Electrical Energy Tariff Optimal Selection”, *Journal of Electrical and Electronics Engineering*, ISSN: 1844-6035, vol. 1, no. 1, pp. 90-94, **2008**. (**Scopus**).

E – Contracte de cercetare (2015-2020)

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
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06.01.2022

Semnătura

