Curriculum vitae Europass

CURRICULUM VITAE

Informatii personale

Prenume / Nume	**Horia-Leonard Andrei**
Adrese	
Date unice de identificare	ORCID 0000-0001-9536-8489 Web of Science Researcher ID E-6723-2017
E-mail	horia.andrei@valahia.ro hr_andrei@yahoo.com
Nationalitate	Romana
Data nasterii	15.05.1954
Sex	Masculin

Locuri de munca / Domenii ocupationale

Data (de la – la)	1979-1982
Numele si adresa angajatorului	SC ROMLUX SA, Tirgoviste
Tipul de activitate sau sectorul	Industriala si de proiectare: instalatii electrice, automatizari industriale si sisteme automate specifice tehnologiei de fabricatie a surselor luminoase
Ocupatia sau pozitia	Inginer Stagiar
Activitătile principale si responsabilitătile detinute	Intretinere, depanare si proiectare instalatii electrice, sisteme de automatizare
Data (de la – la)	1982-1991
Numele si adresa angajatorului	Institutul Politehnic Bucuresti -IPB, catedra de Electrotehnica
Tipul de activitate sau sectorul	Academica: didactica si de cercetare
Ocupatia sau pozitia	Asistent universitar
Activitătile principale si responsabilitătile detinute	Conducere de seminarii, lucrări de laborator: Bazele electrotehnicii, Masini electrice; Sustinere cursuri: Bazele Electrotehnicii, Electrotehnica si Electronica Industriala. Activitati de cercetare si proiectare
Data (de la – la)	1991-1999
Numele si adresa angajatorului	Universitatea (Institutul) Politehnica Bucuresti - UPB, catedra de Electrotehnica
Tipul de activitate sau sectorul	Academica: didactica si de cercetare

Ocupatia sau pozitia	Şef de lucrări
Activităţile principale si responsabilităţile detinute	Conducere de seminarii, lucrări de laborator: Bazele electrotehnicii, Masini electrice; Sustinere cursuri: Bazele Electrotehnicii, Electrotehnica si Electronica Industriala, Electrotehnica si Masini Electrice. Activitati de cercetare si proiectare
Data (de la – la)	1999-2002
Numele si adresa angajatorului	Universitatea Politehnica Bucuresti, catedra de Electrotehnica
Tipul de activitate sau sectorul	Academica: didactica si de cercetare
Ocupatia sau pozitia	Conferentiar universitar
Activităţile principale si responsabilităţile detinute	Sustinere cursuri: Bazele Electrotehnicii, Electrotehnica si Electronica Industriala, Electrotehnica si Masini Electrice. Conducere de seminarii, lucrări de laborator: Bazele electrotehnicii, Masini electrice; Activitati de cercetare si proiectare
Data (de la – la)	2000- prezent
Numele si adresa angajatorului	Universitatea Valahia Targoviste-UVT Aleea Sinaia, nr. 13, 130004, Targoviste, Dambovita, Romania Scoala Doctorala de Stiinte Ingineresti - SDSI
Tipul de activitate sau sectorul	Academica: didactica si de cercetare
Ocupatia sau pozitia	Profesor universitar; din 2019 Profesor universitar asociat
Activităţile principale si responsabilităţile detinute	-Sustinere cursuri: Bazele Electrotehnicii, Metode numerice, Inginerie Biomedicala, Managementul riscurilor in sistemele electroenergetice, Modelarea si simularea circuitelor electrice; -Seful Catedrei de Electromecanica 2000-2004, Prodecan al Facultatii de Inginerie Electrica 2004-2008, Director adjunct DAIE, 2008-2012; - Conducator de doctorat abilitat din 2005; validat in IOSUD-UVT din 2010; - Conducator stiintific a peste 100 de lucrari de licenta si disertatie incepand cu 1998; - Membru in peste 40 de comisii de examinare a tezelor de doctorat incepand cu 2000; - Activitati de cercetare si proiectare.

Educatie si formare

Data (de la – la)	1969-1973
Numele si tipul de organizatiei care asigură educatia si formarea	Liceul Teoretic Moreni
Titlul calificării acordate	Diploma de Bacalaureat
Data (de la – la)	1974-1979
Numele si tipul de organizatiei care asigură educatia si formarea	Facultatea de Automatica si Calculatoare – IPB Bucureşti
Titlul calificării acordate	Diploma de Inginer
Data (de la – la)	2001-2002
Numele si tipul de organizatiei care asigură educatia si formarea	UPB Bucureşti (program PHARE)
Titlul calificării acordate	“Iniţiere în Managementul proiectelor’’

Data (de la – la)	1996
Numele si tipul de organizatiei care asigură educatia si formarea	Facultatea de Electrotehnica – UPB Bucureşti
Titlul calificării acordate	- Diploma de Doctor - 13 teze de doctorat finalizate la UVT în calitate de conducător științific de doctorat; - 43 de participări ca referent în comisii de doctorat la UVT, Universitatea Politehnica Bucureșri, Universitatea "Dunărea de Jos" din Galați și Universitatea din Oradea.

Aptitudini si competente personale

Limba materna **Română**

Limba(i) străină(e) cunoscută(e)

Autoevaluare	Înţelegere		Vorbire		Scriere
Nivel european (*)	Ascultare	Citire	Participare la conversaţie	Discurs oral	Exprimare scrisă
Limba engleza	F.Bine	F. Bine	F. Bine	F. Bine	F. Bine
Limba franceza	F.Bine	F. Bine	F. Bine	F. Bine	F. Bine

Competenţe şi abilităţi sociale	Multi prieteni, sociabil
Abilitati si competente organizatorice	- Foarte bune competente didactice si de cercetare; - Foarte bune abilitaţi manageriale; - Capacitatea de a lucra in echipa.
Competente si aptitudini tehnice	Proiectare aplicatii CAD, SCADA, instrumentatie virtuala, utilizare CADDY++
Competente si cunostinte de utilizare a calculatorului	Microsoft Office, LabView, Matlab/Simulink, PSpice, C++, TurboPascal, Basic
Permis de conducere	Categoria. B
Informatii suplimentare	**1. Alte specializari si calificari:** - *instructor acreditat CPI-SA* pentru tehnica predării şi cunoştinţe generale de informatică, 2003; - *posesor al Permisului European de Conducere a Computerului - ECDL* - RO007634; **2. Activitatea de cercetare** - am elaborat ***2*** *inovaţii* ; - am participat la un număr total de ***44*** *proiecte* ca: director **6**/responsabil **10**/membru în echipă **28** *naționale* ***41*** */internaționale* ***3****, obținute prin competiție*, dintre care: ***35*** *proiecte de cercetare/dezvoltare (**5/5/27**)*, ***7 proiecte educaționale/formare continuă (1/5/1)***; - am participat la 8 propuneri de proiecte europene: 1 H2020 (director), 1 IEE (partener), 2 FP7 (partener) si 4 COST (director). **3. Publicații științifice** - am publicat un numar total ***314***/prim sau unic autor ***198*** de articole şi comunicări ştiinţifice in reviste internaționale/naționale, si volume ale conferintelor naționale/internationale; - dintre toate acestea ***85*** sunt articole cotate **WOS (*8 articole în reviste din zona roșie*), 115** sunt articole cotate Scopus, **196** sunt

articole cotate Google Scholar, și respectiv **119** sunt articole publicate în volume de conferințe naționale/onternaționale și reviste naționale necotate în BDI.
- am publicat un număr total / prim autor de ***87 / 48*** cărți, capitole de cărți și monografii tehnice, dintre acestea un număr total / prim autor de ***25 / 8*** sunt publicate la edituri prestigioase din străinătate;
- citări în articole de specialitate, dintre care: ***312*** **de citări în lucrări cotate WOS, 591 de citări în lucrări cotate SCOPUS și 1249 de citări în lucrări cotate Google Scholar;**
- **H-index: Google Scholar 14, i-10 index 30; Scopus 10; WOS 8.**

4. Membru al asociațiilor profesionale: -
- **Senior Member *IEEE*** (Institute of Electric and Electronic Engineering): Circuits and Systems (CAS) Society din 2012 (Membership din 2006), IEEE Broadcast Technology Society Membership din 2010;
- *AGIR* (Asociatia Generala a Inginerilor din Romania) din 2014;
- *AMSE* (Association for the Advancement of Modeling and Simulation techniques in Enterprises) din 1986;
- *WSEAS* (World Scientific and Engineering Academy and Society), din 2005;
- *SIEAR* (Societatea Inginerilor de Instalaţii Electrice şi Automatizări din România) din 2001;
- *AIEER* (Asociaţia Inginerilor de Electrotehnică şi Electronică din România) din 2003;
- *SRR* (Asociaţia Română de Robotică) din 2006.
- membru CNATDCU, comisia 9 Inginerie Electrica 2020-2024, 2024-2028.
- membru CNATDCU, comisia 9 Inginerie Electrica, comisia de contesații 2016-2020;
- expert ARACIS comisia 11, 2015-2024.

5. Experiența internațională, recunoaștere națională si internațională:
- *Profesor invitat/Visiting Professor* : University of Rouen, France, 2005, Politecnico di Torino, Italy, 2006, 2007, 2009, 2014; Universitty of Sevilla, Spain, 2012; University College of Engineering – Copenhagen, Denmark, 2010;
- *Revizor științific al revistelor internaționale*
-- *cotate WOS*: *Elsevier* : "AA-Acta Astronautica", „MSB-Materials Science and Engineering B", „JPROCONT-Journal of Process Control", "JCLEPRO- Journal of Cleaner Production", "Energy" and „APEN-Applied Energy"; *IEEE:* „IEEE - Transactions on Industrial Electronics (TIE)", „IEEE - Journal of Photovoltaics"; „IEEE - Transactions on Very Large Scale Integration Systems (TVSLI); *MDPI*: "Reliability Enegineering and System Safety", „Energies"; „Energy Report", „Sustainability", „Mathematics", „Open Computer Science", „Open Physics"; *Springer Nature*: „Electrical Engineering"; *Frontiers*: „Frontires in Energy Research";
-- *cotate SCOPUS*: AKTA-IMEKO; „WSEAS-Transactions on Circuits and Systems",
and more than 35 others IEEE - Conferences and Scopus Journals.
- *Revizor științific al revistelor naționale cotate BDI*: "Scientific Bulletin of Electrical Engineering Faculty-SBEEF", "Journal of Electrical Engineering, Electronics and Computer Sciences-JEEECS", "Electrotechnics, Electronics and Control Systems – EEA" cotate de CNCSIS în categoria B+;
- *Redactor șef / Redactor șef onorific al revistei* „The Scientific Bulletin of Electrical Engineering Faculty-SBEEF", Co-*Chief Editor al revistei* "Journal of Electrical Engineering, Electronics, Control and Computer Sciences-JEEECCS" cotate de CNCSIS in categoria B+;
- *Expert European IEE-EACI – Programme*;
- *Lucrări invitate la conferințe internaționale* : WSEAS Bucharest 2006 and Rhodos 2008, IEEE-ECAI Pitesti 2010, EW-DGSRES Pitesti 2012; IEEE-ECAI 2020.
- *Evaluator – expert național* al propunerilor de proiecte: PNCDI, CE-EX, RELANSIN, CNCSIS, CERES, AMCSIT;

-*Președinte/Chairman al conferințelor*: ISEM 2000 Univ. Valahia Targoviste; ISEE 2001, 2002, 2003, 2004, 2005, 2007, 2009, 2011 Univ. Valahia Targoviste; WSEAS 2006 Bucharest, WSEAS 2008 Rhodos; WESC 2010 Targoviste;

- *Membru al Comitetului științific/organizare, Revizor al Conferințelor* : RJJSAEM 2001, Univ. Oradea; METSIM 2002, 2003, 2005 University Politehnica Bucharest (UPB); IEEE-EMES 2004, 2005, 2009, 2011, 2013, 2015-Univ. Oradea; SNET 2004, 2005, 2007, 2009, 2012 UPB; IEEE-ATEE 2004, 2006, 2008, 2010, 2012 UPB; GSP 2005 UPB; IEEE-ECAI – 2010-2023; WESC – 2004 Oradea, 2006 Torino, 2008 Iasi, 2012 Suceava; IEEE-INDIN Viena 2007; WSEAS –Lisabona and Bucharest, 2006, Istanbul, and Creta 2007, Rhodos 2008; 11th Int. Conf. on Microwave and high Frequency Heating (Ampere Conf), 2007 Oradea; JAPMED 2009, 2011; IEEE-EEIC Roma, 2011,2015, Venice-Athens 2012, Wroclaw 2013; IEEE-MELECON 2012, Tunis; IEEE-PES-DEMSEE 2012, Bucharest; EW-DGSRES Pitesti 2012; IEEE-ISCAS 2016; IEEE-ISFEE Bucarest, 2018, 2023.

- *Diplome și premii*: Inclus in “Who’s Who in the World - Who’s Who in Science and Engineering”, din 2008, VIP Number 32846430 since 2008, pp. 77; Inclus in “The IBC Leading Engineers of the World 2008”, International Biographical Centre, Cambridge, England; am primit “Diploma de Excelenta” la a 13-a Conferinta Nationala de Inventica, Iasi, Romania, 4-6 June, 2009; Nominalizat la ENI Award in 2010, 2011; am primit „Diploma de Merit” a Universitatii „Valahia” din Targoviste 1-2 iunie 2012, si „Diploma de Excelenta” a Universitatii „Stefan cel Mare” din Suceava, Romania, 28 June 2012; „Certificat de Excelenta” acordat de Comisia nationala UNESCO, oct. 2012; am obtinut gradul de Senior Member IEEE, 2012; sunt decorat cu Medalia de Excelenţă a Municipiului Moreni, jud. Dâmboviţa şi cu titlul de HONORARIUS al Liceului teoretic din Moreni, 2006; am primit de la Elsevier – Journal of Aplied Energy diploma „Outstanding Reviewer of 2012 Awarded to Horia Andrei for Exceptional Contribution to the Quality of the Journal of Applied Energy-APEN”, „APEN-Certificate of Reviewing-awarded April, 2015”, Applied Energy (IF 7.182) – Awards of Best Reviewers (2016)”, Springer Nature Award „Energy, Ecology, Environment Applied Energy – 2018 Outstanding Reviewers for Exceptional Contributions of their Reviews to the Journal”, Premiul CNCSIS 2020 pentru articolul Cristian-Petre Fluieraru, Gabriel Predușcă, **Horia Andrei**, Emil Diaconu,Petru Adrian Cotfas, Daniel Tudor Cotfas, *Determination of Technological Features of a Solar Photovoltaic Cell Made of Monocrystalline Silicon P+PNN+*, International Journal of Photoenergy, Volume 2019, Article ID 7945683, 14 pages, https://doi.org/10.1155/2019/7945683, indexat WOS, impact factor 1.88; Best papers award IEEE-ECAI 2021-indexat ISI-WoS; Profesor Honorificus al Universitatii Valahia din Targoviste, 5 iunie 2022.

- *Co-Guest Editor* al volumului special *Energy Journal* (ISSN 0360-044, indexat WOS) dedicat unei selectii a articolelor prezentate la 8th World Energy System Conference (WESC), Targoviste, 2010;

- *Guest Editor of Special Issue* "Power Systems Connectivity and Resiliency: Modeling, Simulation and Analysis", Energies (indexat WOS), 2021.

- *Topic Editor* of Energies 2020-2024 (indexat WOS).

- *Co-Guest Editor of Special Issue* " *Experimental and Modeling Methods, and Novel Applications of Electromagnetic Energy* ", Energies (indexat WOS), 2022

Noiembrie 2024
Prof.dr.ing. Horia ANDREI

Anexe **I. Publicații selecție de articole - în Jurnale și Volume de Conferințe indexate ISI-WOS un total de 85 (dintre care 8 în zona roșie); indexate în alte BDI – SCOPUS, IEEExplore – dintr-un total de 193):**

ISI-WOS-toate articolele

Ri1. **Horia Andrei**, Dan D. Micu, Marian Gaiceanu, Marilena Stanculescu, Paul Cristian Andrei, *Numerical Methods for Equations, Systems Equations and Optimization,* Chapter 1 of the book Numerical Methods for Energy Applications, editors M. Tabatabaei, N. Bizon, Springer, 2021, indexat ISI-WOS

Ri2. Marilena Stanculescu, Sorin Deleanu, Paul Andrei, Horia Andrei, Lavinia Bobaru, Mihai Iordache, *Theoretical Approaches of Finite Elements Method (FEM),* Chapter 3 of the book Numerical Methods for Energy Applications, editors M. Tabatabaei, N. Bizon, Springer, 2021, indexat ISI-WOS

Ri3. Andrei Ceclan, Dan D. Micu, Levente Czumbil, **Horia Andrei**, M. Gaiceanu, Marilena Stanculescu, Paul Cristian Andrei, *Posed Inverse Problems in Electrical Engineering Applications,* Chapter 9 of the book Numerical Methods for Energy Applications, editors M. Tabatabaei, N. Bizon, Springer, 2021, indexat ISI-WOS

Ri4. Marilena Stanculescu, Paul Andrei, **Horia Andrei**, Sorin Deleanu, Lavinia Bobaru*, Numerical Assessment of Electromagnetic Energy and Forces in Non-Destructive Measurement Devices,*
Chapter 21 of the book Numerical Methods for Energy Applications, editors M. Tabatabaei, N. Bizon, Springer, 2021, indexat ISI-WOS

Ri5. Sorin Deleanu, Marilena Stanculescu, Dragos Niculae, Paul Cristian Andrei, Lavinia Bobaru, **Horia Andrei,** *Optimal Integration of Electric Vehicles in Smart Grid Energy Flow,* Chapter 22 of the book Numerical Methods for Energy Applications, editors M. Tabatabaei, N. Bizon, Springer, 2021, indexat ISI-WOS

Ri6. Emil Diaconu, Alexandru Enescu, **Horia Andre**i, Sorin Deleanu, *Numerical Approaches of Biomass Plants Efficiency,* Chapter 23 of the book Numerical Methods for Energy Applications, editors M. Tabatabaei, N. Bizon, Springer, 2021, indexat ISI-WOS

Ri7. Marilena Stănculescu, Sorin Deleanu, Paul Cristian Andrei and **Horia Andrei**, *A Case Study of an Industrial Power Plant under Cyberattack: Simulation and Analysis,* Energies 2021, 14, 2568. https://doi.org/10.3390/en14092568, indexat ISI**, impact factor 3.07.**

Ri8. **Horia Andrei**, Mihai Iordache, Paul Cristian Andrei, Marilena Stanculescu, Sorin Deleanu, Lavinia Bobaru, *Power and Energy Flow in Cvasi-Stationary Electric and Magnetic Circuits,* Chapter 24 of the book Numerical Methods for Energy Applications, editors M. Tabatabaei, N. Bizon, Springer, 2021, indexat ISI-WOS

Ri9. H. Andrei, M. Gaiceanu, M. Stanculescu, I. Marinescu, P. C. Andrei, *Security evaluation of sensor networks*, chapter 11 of the book *Recent Developments on Industrial Control Systems Resilience,* editors M. Tabatabaei, E. Pricop, Springer, 2020.

Ri10. H. Andrei, M. Gaiceanu, Marilena Stanculescu, P.C. Andrei, R. Buhosu, C.A. Badea, *Energy Storage Systems in Microgrid,* chapter 8 of the book *Microgrid Architectures, Control and Protection Methods,* editors M. Tabatabaei, S.V. Ravadanegh, N. Bizon, Springer, 2019, indexat ISI-WOS

Ri11. H. Andrei, M. Gaiceanu, Marilena Stanculescu, I. Arama, P.C. Andrei*, Microgrid Protection,* chapter 25 of the book *Microgrid Architectures, Control and Protection Methods,* editors M. Tabatabaei, S.V. Ravadanegh, N. Bizon, Springer, 2019, indexat ISI-WOS

Ri12. H. Andrei, M. Gaiceanu, Marilena Stanculescu, I. Arama, P.C. Andrei*, Power Systems Connectivity and Resiliency,* pp.45-79, chapter 2 of the book *Power Systems Resilience*, *Modeling, Analysis and Practice,* editors M. Tabatabaei, S.V. Ravadanegh, N. Bizon, Springer, 2019, indexat ISI-WOS

Ri13. H. Andrei, P.C. Andrei*,* M. Gaiceanu, Marilena Stanculescu, I. Arama, I. Marinescu, *Power Systems Recovery and Restoration Encouter*

with Natural Disaster and Deliberate Attacks, pp.247-267, chapter 10 of the book *Power Systems Resilience*, *Modeling, Analysis and Practice,* editors M. Tabatabaei, S.V. Ravadanegh, N. Bizon, Springer, 2019, indexat ISI-WOS

Ri14. H. Andrei, P.C. Andrei, Marilena Stanculescu, E. Cazacu, Luminita Constantinescu, R. Beloiu, *Electrical Power Systems*, pp.3-48, chapter 1 of the book *Reactive Power Control in AC Power Systems*, editors Mahdavi Tabatabaei, N., Jafari Aghbolaghi, A., Bizon, N., Blaabjerg, Springer, 2017, ISBN 978-3-319-51118-4, indexat ISI-WOS

Ri15. H. Andrei, P. C. Andrei, Marilena Stanculescu, E. Cazacu, *Fundamentals of Reactive Power in AC Power Systems*, pp.49-116, chapter 2 of the book *Reactive Power Control in AC Power Systems*, editors Mahdavi Tabatabaei, N., Jafari Aghbolaghi, A., Bizon, N., Blaabjerg, Springer, 2017, ISBN 978-3-319-51118-4, 631 pages, indexat ISI-WOS

Ri16. S. Orboiu, **H. Andrei**, *Analyze of Eco-financial Impact of PV System Integration in Educational Institutions. Case Study in Romania*, Proc of IEEE - Electronics, Computers and Artificial Intelligence - ECAI, 2020, ISBN: 978-1-7281-6843-2, indexat ISI-WoS.

Ri17. A. Enescu, **H. Andrei**, E. Diaconu, N. Angelescu. *Financial and technical forecast analysis of a cogeneration biomas plant – Case study in Romania*, Proc. of IEEE-ECAI 2020, SBN: 978-1-7281-6843-2, indexat ISI-WoS .

Ri18. Cristian-Petre Fluieraru, Gabriel Predușcă, **Horia Andrei**,1 Emil Diaconu,Petru Adrian Cotfas, Daniel Tudor Cotfas, *Determination of Technological Features of a Solar Photovoltaic Cell Made of Monocrystalline Silicon P+PNN+*, International Journal of Photoenergy, Volume 2019, Article ID 7945683, 14 pages, https://doi.org/10.1155/2019/7945683, indexat ISI-WOS, **impact factor 1.88**

Ri19. **Horia Andrei**; Cristian Andrei Badea; Paul Andrei; Filippo Spertino, *Energy consumption analysis and PV system connectivity on a waste water treatment plant. Case study: modeling and simulation,* Energies (ISSN 1996-1073) Energies **2021**, 14, 100. https://dx.doi.org/10.3390/en14010100, indexat ISI, **impact factor 2.702.**

Ri20.I. Marinescu, **H. Andrei**, I. Iordache, *Protection Methods and Actions to Increase the safety of Operation in Power Systems Assimilated to Critical Infrastructures,* IEEE-ECAI, 28 June-1 July, 2019, Pitesti, Romania, indexat ISI-WOS.

Ri21 I. Marinescu, S. Deleanu, M. Stănculescu, L. Bobaru, P. Andrei, **H. Andrei,** Electrical equipment safety analysis and simulation. Case study: transformer's malfunctions, IEEE-6th Int Symposium on Electrical and Electronics Engineering-ISEEE, 18-20 oct. 2019, Galati Romania, paper 14, acceptat pentru prezentare în cadrul conferinței indexată ISI-WOS.

Ri22. A**.** Enescu, **H. Andrei**, V. E. Diaconu, V. Ion, *Numerical Methods for Modeling the Input-Output Characteristics in a Co-generation Plant,* IEEE-ECAI, 28 June-1 July, 2019, Pitesti, Romania, indexat ISI-WOS.

Ri23. A. Ciocia, G. Malgaroli, A. Spedicato, F. Spertino, **H. Andrei,** V. Boicea, *Quality Check during Manufacturing of Custom Photovoltaic Modules with Back-Contact Cells,* IEEE-UPEC, 3 -6 Sept., 2019, Bucharest, Romania, indexat ISI-WOS.

Ri24. I.Vasile, V.Vasile, E. Diaconu, **H.Andrei**, N. Angelescu, *Vital Parameters Monitoring System and Alert Signal Transmission to Emergency Medical Centers*, Journal of Science and Arts Year, 2019, ISSN 1844-9581; eISSN 2068-3049, indexat ISI-WOS, **impact factor 0.675**.

Ri25. Marilena Stanculescu, C.A. Badea, I. Marinescu, P. Andrei, Oana Drosu, **H. Andrei**, *Vulnerability of SCADA and Security Solutions for a Waste Water Treatment Plant,* IEEE XIth Int. Symposium on Advanced Topics in Electrical Engineering-ATEE, March 28-30, 2019, Bucharest, Romania, Paper 87, 978-1-7281-0101-9/19/$31.00 ©2019 IEEE**,** indexat ISI-WOS

Ri26. **H. Andrei**, V. Ion, E. Diaconu, A. Enescu, I. Udroiu, *Energy Consumption Analysis of Security Systems for a Residential Consumer*, IEEE XIth Int. Symposium on Advanced Topics in Electrical Engineering-ATEE, March 28-30, 2019, Bucharest, Romania, Paper 110, 978-1-7281-0101-9/19/$31.00 ©2019 IEEE, indexat ISI-WOS

Ri27. H. Andrei, A. Enescu, E. Diaconu, V. Ion, I. Udroiu, *Data Acquisition and Modeling of Cogeneration Power Plant Parameters,* IEEE XIth Int. Symposium on Advanced Topics in Electrical Engineering-ATEE, March 28-30, 2019, Bucharest, Romania, Paper 113, 978-1-7281-0101-9/19/$31.00 ©2019 IEEE, indexat ISI-WOS

Ri28. S. Orboiu, **H. Andrei**, *DAQ and Power Quality Analysis of ElectricalParameters in Romanian Schools,* IEEE XIth Int. Symposium on Advanced Topics in Electrical Engineering-ATEE, March 28-30, 2019, Bucharest, Romania, Paper 129, 978-1-7281-0101-9/19/$31.00 ©2019 IEEE, indexat ISI-WOS.

Ri29 Lucian Nastase, **Horia Andrei**, Emil Lungu, Veronica Dulea, Emil Diaconu, *Modeling, Simulation and Optimization of Dual Heating System*, IEEE - 6th ISEEE, October 18-20, 2019 Galaţi, Romania, indexat ISI-WOS.

Ri30. **H.Andrei**, P.C. Andrei, E. Cazacu, Marilena Stanculescu, S. Orboiu, *Power quality analysis based on a novel nonlinear dependence between parameters of nonsinusoidal regime,* IEEE-ISFEE, 1-3 Nov, 2018, Bucarest, Romania, paper #456, IEEE Catalog number CFP1893Y-ART, ISBN: 978-1-5386-7212-9, indexat ISI-WOS.

Ri31. B.Enache, P.C. Andrei, C.Cepisca, **H.Andrei,** *Harmonic Analysis for Linear Circuits Based on Voltage Relative Values and Standard Limits*, IEEE-ECAI, 28 June-1 July, 2018, Iasi, Romania, vol.10, no.1-2018, pp.50-56, ISBN 978-1-5386-4901-5, IEEE Catalog number CFP 1827U-ART, indexat ISI-WOS

Ri32. I.D. Deaconu, Marilena Stanculescu, A.I. Chirila, V.Navrapescu, **H.Andrei,** *On Automatic Transfer Switch Systems Security*, IEEE-ICATE, 4-6 Oct., 2018, Craiova, Romania, paper #129, ISBN 978-1-5386-3805-7, IEEE Catalog No. 1899S-USB, indexat ISI-WOS.

Ri33. Diana Enescu, **H.Andrei**, I. Caciula, P.C. Andrei, *Study of a Thermoelectric Refrigerator through Circuit-Based Models and Electro-Thermal Analogy*, UPEC, 4- Sept., 2018, Glasgow, UK, paper #209, ISBN 978-1-5386-4901-5, IEEE Catalog number CFP 1827U-ART, ndexat ISI-WOS.

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PN2. Sistem de monitorizare si inspectie avansata aeriana si terestra a infrastructurilor critice-
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PN3. Qualification, Adaptation, Performance **–** for a better life, POSDRU/ 182/2.3/5/152783, 2015-2016, project manager.
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