



Curriculum vitae Europass

CURRICULUM VITAE



Informatii personale

Prenume / Nume
Adrese
Date unice de identificare
E-mail
Nationalitate
Data nasterii
Sex

Horia-Leonard Andrei

ORCID 0000-0001-9536-8489

Web of Science Researcher ID E-6723-2017

horia.andrei@valahia.ro hr_andrei@yahoo.com

Romana

Masculin

Locuri de munca / Domenii ocupationale

Data (de la – la)
Numele si adresa angajatorului
Tipul de activitate sau sectorul
Ocupatia sau pozitia
Activitățile principale si
responsabilitățile detinute

1979-1982
SC ROMLUX SA, Tirgoviste
Industriala si de proiectare: instalatii electrice, automatizari industriale si sisteme automate specifice
tehnologiei de fabricatie a surselor luminoase
Inginer Stagiar
Intretinere, depanare si proiectare instalatii electrice, sisteme de automatizare

Data (de la – la)
Numele si adresa angajatorului
Tipul de activitate sau sectorul
Ocupatia sau pozitia
Activitățile principale si
responsabilitățile detinute

1982-1991
Institutul Politehnic Bucuresti -IPB, catedra de Electrotehnica
Academica: didactica si de cercetare
Asistent universitar
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)
Numele si adresa angajatorului
Tipul de activitate sau sectorul
Ocupatia sau pozitia
Activitățile principale si
responsabilitățile detinute

1991-1999
Universitatea (Institutul) Politehnica Bucuresti - UPB, catedra de Electrotehnica
Academica: didactica si de cercetare
Şef de lucrări
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)
Numele si adresa angajatorului
Tipul de activitate sau sectorul

1999-2002
Universitatea Politehnica Bucuresti, catedra de Electrotehnica
Academica: didactica si de cercetare

Ocupatia sau pozitia
Activitățile principale si
responsabilitățile deținute

Conferentiar universitar

Sustinere cursuri: Bazele Electrotehnicii, Electrotehnica si Electronica Industrială, Electrotehnica si Masini Electrice. Conducere de seminarii, lucrări de laborator: Bazele electrotehnicii, Masini electrice; Activitati de cercetare si proiectare

Data (de la – la)
Numele si adresa angajatorului

2000- prezent

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

Activitățile principale si
responsabilitățile deținute

-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)
Numele si tipul de organizatiei care
asigură educatia si formarea
Titlul calificării acordate

1969-1973

Liceul Teoretic Moreni

Diploma de Bacalaureat

Data (de la – la)
Numele si tipul de organizatiei care
asigură educatia si formarea
Titlul calificării acordate

1974-1979

Facultatea de Automatica si Calculatoare – IPB București

Diploma de Inginer

Data (de la – la)
Numele si tipul de organizatiei care
asigură educatia si formarea
Titlul calificării acordate

2001-2002

UPB București (program PHARE)

“Inițiere în Managementul proiectelor”

Data (de la – la)
Numele si tipul de organizatiei care
asigură educatia si formarea
Titlul calificării acordate

1996

Facultatea de Electrotehnica – UPB București

- 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 București, Universitatea “Dunărea de Jos” din Galați și Universitatea din Oradea.

Aptitudini si competente personale

Limba materna

Română

Limba(i) străină(e) cunoscută(e)

Autoevaluare

Nivel european (*)

Limba engleza

Limba franceza

Înțelegere		Vorbire		Scriere	
Ascultare	Citire	Participare la conversație	Discurs oral	Exprimare scrisă	
F. Bine	F. Bine	F. Bine	F. Bine	F. Bine	
F. Bine	F. Bine	F. Bine	F. Bine	F. Bine	

Competențe și abilități sociale
Abilitati si competente organizatorice

Multi prieteni, sociabil
- Foarte bune competente didactice si de cercetare;
- Foarte bune abilitati 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 și cunoștințe generale de informatică, 2003;
- *posesor al Permisului European de Conducere a Computerului - ECDL - RO007634*;

2. Activitatea de cercetare

- am elaborat **2** *inovații* ;
- 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 ca prim, unic autor sau coautor un numar total de **404 de articole**, comunicări științifice in reviste internaționale/naționale si volume ale conferintelor naționale/internationale;
- dintre toate acestea **86** sunt articole cotate **WOS (8 articole în reviste din zona roșie)**, **120** sunt articole cotate **Scopus**, **203** sunt articole cotate **Google Scholar**, și respectiv **129** 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: **331 de citări în lucrări cotate WOS**, **643 de citări în lucrări cotate SCOPUS** și **1327 de citări în lucrări cotate Google Scholar**;
- **H-index: Google Scholar 16, i-10 index 31; Scopus 11; 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 Instalații Electrice și Automatizări din România) din 2001;
- **AIEER** (Asociația Inginerilor de Electrotehnică și Electronică din România) din 2003;
- **SRR** (Asociația 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; University 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 Engineering and System Safety”, „Energies”; „Energy Report”, „Sustainability”, „Mathematics”, „Open Computer Science”, „Open Physics”; *Springer Nature*: „Electrical Engineering”; *Frontiers*: „Frontiers 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-JEECS”, “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-JEECCS” 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 :* RJSAEM 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 Excelență a Municipiului Moreni, jud. Dâmbovița și cu titlul de HONORARIUS al Liceului teoretic din Moreni, 2006; am primit de la Elsevier – Journal of Applied 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 2025

Prof.dr.ing. Horia ANDREI

I. Publicații selecție de articole - în Jurnale și Volume de Conferințe indexate ISI-WOS un total de 86 (dintre care 8 în zona roșie); indexate în alte BDI – SCOPUS, IEEEExplore – 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 Andrei**, 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 Stanculescu, 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 Encounter 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 biomass plant – Case study in Romania*, Proc. of IEEE-ECAI 2020, SBN: 978-1-7281-

6843-2, indexat ISI-WoS.

Ri18. Cristian-Petre Fluieraru, Gabriel Preduscă, **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. Udroui, *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. Udroui, *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 Electrical Parameters 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 Galati, 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, indexat ISI-WOS.

Ri34. I. Marinescu, B. Botea, **H. Andrei**, *Critical Infrastructure Risk Assessment of Romanian Power Systems*, IEEE-5th Int Symposium on Electrical and Electronics Engineering-ISEEE, 20-22 oct. 2017, Galati Romania, paper 69, IEEE Catalog Number CFP1793K-USB, ISBN 978-1-5386-2058-8, indexat ISI-WOS.

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II. Proiecte Naționale (PN - 5) și Internaționale (PI - 3) - cele mai importante în ultimii 10 ani:

PN1. Sistem inteligent mobil de conversie a resurselor proprii si de optimizare a consumului de energie pentru producatori cu potential ridicat de poluare - Sycon, cod SMIS 12140, cercetator.

- PN2.** Sistem de monitorizare si inspectie avansata aeriana si terestra a infrastructurilor critice-SMIATIC, POC 2014-2020, Axa prioritara 1-Cercetare, dezvoltare tehnologica si inovare (CDI) in sprijinul competitivitatii economice si dezvoltarii afacerilor, cercetator.
- PN3.** Qualification, Adaptation, Performance – for a better life, POSDRU/182/2.3/5/152783, 2015-2016, project manager.
- PN4.** Continuing vocational training in electrical and computer qualification, 2010-2011 POS-DRU project 24/2.3/G/17727, course director.
- PN5.** Soluție Inovativă de Optimizare a Productivității Utilizatorilor prin Monitorizarea Multi-Modală a Activității și a Profilelor - OPTIMIZE”, SMIS 121491, cercetator.
- PI1.** Leonardo da Vinci Transfer of innovations project 2012-1-Gr1-LEO05-10057 „Enhance Attractiveness of Renewable Energy Training by Virtual Reality” – AVARES, 2012, responsabil partener.
- PI2.** Advanced devices for micro and nano-scale manipulation and characterization (ADMAN), PN-II-RU-TE-2011-3-0299, 2011-2012, Professor-tutor (mentor).
- PI3.** Training Hub of Renewable Energy Technology for Sri Lanka- Three Lanka, application no. 619309-EPP-1-2020-LK-EPPKA2-CBHE-JP, European Comission Erasmus +, Higher Education, 2020-2022, expert.

III. Cărți (6) și capitole de cărți (3) în edituri internaționale - cele mai importante în ultimii 10 ani (Observație. Capitolele publicate în editura Springer, în număr de 13, au fost precizate la paragraful I ca publicații cotate ISI-WOS):

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- 2. C. Fluerașu, Corina Fluerașu, Dorina Popovici, P.C. Andrei, H. Andrei, Numerical Algorithms and Applications in Electrical Engineering**, ed. Printech, București, 2016, ISBN: 978-606-23-0661-8, 160 pag.
- 3. H. Andrei (coordinator), C. Fluerașu, Elena Virjoghe, Corina Fluerașu, Diana Enescu, Dorina Popovici, Adela Husu, P. C. Andrei, G. Predusca, E. Diaconu, Metode numerice, modelari si simulari in ingineria electrica / Numerical Methods, Modelling and Simulation in Electrical Engineering** - in Romanian and English, ed. Electra, Bucuresti, 2011, ISBN: 978-606-507-060-8, 620 pag.
- 4. H. Andrei, G. Chicco, F. Spinei, Minimum Dissipated Power and Energy - Two General Principles of the Linear Electric and Magnetic Circuits in Quasi-Stationary Regime**, pp. 130-205, chapter 5 of the book *Advances in Energy Research: Distributed Generations Systems Integrating Renewable Energy Resources*, editor N. Bizon, Nova Science Publishers, New York, 2011, ISBN: 978-1-61209-991-0, 620 pag.
- 5. C. Cepisca, G. Seritan, C. Banica, H. Andrei, N. Asimopoulos, S. Ganatsios, Principles of analog signal conditioning**, pp. 190-237, chapter 4 of the book *Selected Topics in Applied Electrotechnics*, Ed. IWN , Atena, 2012, ISBN: 978-960-508-052-5.
- 6. V. Dogaru Ulieru, C. Cepiscă, H. Andrei, T. Ivanovici, Data Acquisition in Photovoltaic Systems**, pp.213-230, chapter 10 of the book *Renewable Energy - Trends and Applications*, edited by Majid Nayeripour and Mostafa Kheshti, InTech, Viena, 2011, ISBN 978-953-307-939-4, 250 pag.
- 7. H. Andrei, C. Cepisca, S.D.Grigorescu, Power Quality and Electrical Arc Furnaces**, pp. 55-100, chapter 2 of the book *Power Quality*, editor Andreas Eberhard, InTech, Viena, ISBN 978-953-307-180-0, 2011, 570 pag. – **the chapter has reached 14000 downlods (July, 2016)**
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- 8. H. Andrei, Minimum Dissipated Power and Energy - Two General Principles of the Linear Electric and Magnetic Circuits in Quasi-Stationary Regime**, pp. 141-165, Chapter 5 of the book *Complex Behaviour of the Distributed Generation System Intelligent Management of the Renewable Energy Resources for assuring the DG System Power Quality and a Sustainable Development*, editor N. Bizon, Publishing House of University of Pitesti, 2010, ISBN 978-606-560-128-4 (hardcover), ISBN 978-606-560-129-1 (e-book), 564 pag.
- 9. H. Andrei, Fl. Stan, Electrical Engineering: Electrotechnics and Electromechanical Converters (in Romanian: Inginerie Electrică Modernă. Electrotehnică și Converteoare Electromecanice. Teorie și aplicații)**, vol. 1, 2, Ed. Bibliotheca, Targoviste, 2010, 900 pag., ISBN 978-93-712-563-7, ISBN 978-973-712-565-1.

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https://apps.webofknowledge.com/summary.do?product=WOS&parentProduct=WOS&search_mode=GeneralSearch&parentQid=&qid=1&SID=U1KDE2fEwKV15zsuITz&update_back2search_link_param=yes&page=3&excludeEventConfig=ExcludelfReload

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