



Curriculum vitae Europass

CURRICULUM VITAE



Informatii personale

Prenume / Nume

Adrese

Teletone

Fax)

E-mail

Nationalitate

Data nasterii

Sex

Horia Leonard Andrei

Domiciliul stabil: Blvd. Nicolae Grigorescu, nr. 43, Bl. D1, Sc. A, ap.2, sector 3, 030443, Bucuresti

Resedinta: Str. Plaiului, nr. 1, Moreni, 135300, Dambovita

Birou: Aleea Sinaia, 13, Targvoiste, 130004, Dambovita, Romania

Mobil:

Birou: 0245-217683

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

Romana

15 mai 1954

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

Data (de la – la)

Numele si adresa angajatorului

Tipul de activitate sau sectorul

Ocupatia sau pozitia

Activitățile principale si
responsabilitățile detinute

Data (de la – la)

Numele si adresa angajatorului

Tipul de activitate sau sectorul

Ocupatia sau pozitia

Activitățile principale si

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

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

1991-1999

Universitatea (Institutul) Politehnica Bucuresti - UPB, catedra de Electrotehnica

Academica: didactica si de cercetare

Șef de lucrări

Conducere de seminarii, lucrări de laborator: Bazele electrotehnicii, Masini electrice;

responsabilitățile deținute

Sustinere cursuri: Bazele Electrotehnicii, Electrotehnica și Electronica Industrială, Electrotehnica și Masini Electrice.

Activități de cercetare și proiectare

Data (de la – la)

1999-2002

Numele și adresa angajatorului

Universitatea Politehnica București, catedra de Electrotehnica

Tipul de activitate sau sectorul

Academica: didactică și de cercetare

Ocupația sau poziția

Conferențiar universitar

Activitățile principale și responsabilitățile deținute

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

Data (de la – la)

2000- 2019

Numele și adresa angajatorului

Universitatea Valahia Târgoviște, Departamentul de Automatică, Informatică și Inginerie Electrică-DAIE, Blv. Unirii, nr. 18-20, 130084, Târgoviște, Dambovită, România

Tipul de activitate sau sectorul

Scoala Doctorală de Științe Ingineresti - SDSI

Ocupația sau poziția

Academica: didactică și de cercetare

Activitățile principale și responsabilitățile deținute

Profesor universitar

-Sustinere cursuri: Bazele Electrotehnicii, Metode numerice, Inginerie Biomedicală, Managementul riscurilor în sistemele electroenergetice, Modelarea și simularea circuitelor electrice;
-Seful Catedrei de Electromecanică 2000-2004, Prodecan al Facultății de Inginerie Electrică 2004-2008, Director adjunct DAIE, 2008-2012;
- Conducător de doctorat din 2010;
- Conducător științific a peste 100 de lucrări de licență și disertație începând cu 1998;
- Membru în peste 30 de comisii de examinare a tezelor de doctorat începând cu 2000;
- Activități de cercetare și proiectare.

Data (de la – la)

Prezent – profesor universitar asociat la Școala Doctorală de Științe Ingineresti – SDSI UVT

Educție și formare

Data (de la – la)

1969-1973

Numele și tipul de organizație care asigură educația și formarea

Liceul Teoretic Moreni

Titlul calificării acordate

Diploma de Bacalaureat

Data (de la – la)

1974-1979

Numele și tipul de organizație care asigură educația și formarea

Facultatea de Automatică și Calculatoare – IPB București

Titlul calificării acordate

Diploma de Inginer

Data (de la – la)

2001

Numele și tipul de organizație care asigură educația și formarea

UPB București (program PHARE)

Titlul calificării acordate

“Inițiere în Managementul proiectelor”

Data (de la – la)

1996

Numele și tipul de organizație care asigură educația și formarea

Facultatea de Electrotehnica – UPB București

Titlul calificării acordate

- Diploma de Doctor

- Conducător de doctorat din 2005, avizat în IOSUD din 2010.

Aptitudini și competențe personale

Limba maternă

Română

Limba(i) străină(e) cunoscută(e)

Autoevaluare

| Înțelegere | Vorbire | Scriere |
|------------|---------|---------|
|------------|---------|---------|

| Nivel european (*) | Ascultare | Citire | Participare la conversație | 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 |

Competențe și abilități sociale
Abilitati si competente organizatorice

Multi prieteni, sociabil
- Foarte bune competente didactice si de cercetare;
- Foarte bune abilitați manageriale si administrative;
- Capacitatea de a lucra in echipa.

Competente si aptitudini tehnice

Proiectare aplicatii CAD, utilizare 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:

- *absolvent al programului PHARE RO9807.01.01.02.0030 "Managementul proiectelor" la UPB, 2002;*
- *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 ca director/responsabil/membru în echipă la un număr total de **40 proiecte naționale/internaționale obținute prin competiție**, dintre care: **34 proiecte de cercetare/dezvoltare (25/8)**, **7 proiecte educaționale/formare continuă (7/0)**; la **13 (11/2) proiecte** am fost director sau responsabil;
- am participat la 8 propuneri de proiecte europene: 1 H2020 (director), 1 IEE (partener), 2 FP7 (partener) și 4 COST (director).

3. Publicatii stiintifice

- am publicat un numar total/prim autor de **336 / 164** articole și comunicări științifice in reviste internationale si nationale, si volume ale conferintelor internationale;
- dintre toate acestea **207 / 91** sunt in publicatii cotate **ISI WoS (171/29)**, **10 în reviste din zona roșie** și **BDI (136/63)**;
- am publicat un numar total / prim autor de **67 / 34** carti, capitole de carti si monografiile tehnice; dintre acestea un numar total / prim autor de **17 / 8** sunt publicate la edituri recunoscute din strainatate;
- peste **800 de citări** în cărți și articole de specialitate, dintre care **172 de citări în lucrări cotate ISI WoS și 386 de citări în lucrări cotate SCOPUS**;
- **H-index: Google Scholar 14, i-10 index 20; Scopus 10; ISI Web of Science (WoS) 10;**

4. Membru al asociatiilor 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 Inginerie Electrica 2020-2024.

5. Experienta internationala, recunoastere nationala si internationala:

- *Profesor invitat/Visiting Professor* : University of Rouen, France, 2005, Politecnico di Torino, Italy, 2006, 2007, 2009, 2014; University College of Engineering – Copenhagen, Denmark, 2010, in cadrul programului Socrates/Erasmus Staff Exchange;
- *Revizor stiintific al revistelor internationale cotate ISI Web of Science*: "AA-Acta Astronautica", „MSB-Materials Science and Engineering B”, „JPROCONT-Journal of Process Control”, „JCLEPRO-Journal of Cleaner Production”, "Energy" and „APEN-Applied Energy” - Elsevier Editorial System;

„IEEE - Transactions on Industrial Electronics (TIE)”, „IEEE - Journal of Photovoltaics”; „Journal of Electrical and Electronics Engineering Research-JEER”; „WSEAS-Transactions on Circuits and Systems”; „IEEE - Transactions on Very Large Scale Integration Systems (TVSLI), AKTA-IMEKO; Energies-MDPI;

- *Revizor stiintific al revistelor nationale*: “Scientific Bulletin of Electrical Engineering Faculty”, “Journal of Electrical and Electronics Engineering”, “Electrotechnics, Electronics and Control Systems – EEA” cotate de CNCSIS in categoria B+;

- *Redactor sef 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+, Google Scholar si Index Copernicus – Master Journal List;

- *Expert European IEE-EACI – Programme*;

- *Lucrari invitate la conferinte internationale* : WSEAS Bucharest 2006 and Rhodos 2008, IEEE-ECAI Pitesti 2010, EW-DGSRES Pitesti 2012; IEEE-ECAI 2020.

- *Evaluator – expert national* al propunerilor de proiecte: PNCDI, CE-EX, RELANSIN, CNCSIS, CERES, AMCSIT, expert ARACIS;

-*Presedinte/Chairmen al conferintelor*: 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 stiintific/organizare, Revizor al Conferintelor*, : 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, 2011, 2013, 2014, 2015, 2016, 2017, 2018; 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.

- *Diplome si 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**,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 Web of Science, impact factor 1.88

- *Co-Guest Editor* al volumului special *Energy Journal* (ISSN 0360-044, indexat ISI Web of Science) -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 ISI Web of Science), 2021.

Anexe

Lista de lucrari



I. Publicatii - articole in Jurnale si Volume de Conferinte in ultimii 10 ani - total: 101 (indexate ISI Web of Science total: 64, dintre care 5 in zona rosie; alte baze de date internationale BDI – SCOPUS, IEEEExplore - total: 37):

- 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 Web of Science](#)
- 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 Web of Science](#)
- 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 Web of Science](#)
- 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 Web of Science](#)
- 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 Web of Science](#)
- 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 Web of Science](#)
- Ri7. 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 Web of Science](#)
- Ri8 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.
- Ri9. 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 Web of Science](#)
- Ri10. 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 Web of Science](#)
- Ri11. 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 Web of Science](#)
- Ri12. 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 Web of Science](#)
- Ri13. 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 Web of Science](#)
- Ri14. 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 Web of Science](#)
- Ri15.** 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 IEEE Explore](#).
- Ri16.** 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 IEEE Explore](#).
- Ri17.** 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 Web of Science, impact factor 1.88

Ri 18. 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.

Ri19. 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 Web of Science](#).

Ri20 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 Web of Science.

Ri21. 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 Web of Science](#).

Ri22. 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 Web of Science](#).

Ri23. 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 Web of Science](#), **impact factor 0.675**.

Ri24. 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 Web of Science](#)

Ri25. **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 Web of Science](#)

Ri26. **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 Web of Science](#)

Ri27. 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 Web of Science](#).

Ri28. **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 Web of Science](#).

Ri29. 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 Web of Science](#)

Ri30. 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 Web of Science](#).

Ri31. 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 Web of Science](#).

Ri32. 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 Web of Science](#).

Ri33. I. Vasile, V. Vasile, V. M. Alexe, E. Diaconu, I. Caciula, **H. Andrei**, *Simulation and modeling of battery operation used in real-time monitoring equipment of vital human*, Journal of Science and Arts Year 17, No. 4(41), pp. 861-870, 2017, ISSN 1844-9581; eISSN 2068-3049, [indexat ISI Web of Science](#), **impact factor 0.675**.

Ri34. I.V. Gurgu, M. Ionita, I. Vasile, D. Coltuc, I.A. Ivan, **H. Andrei**, *Simulation method and measurement system of electromagnetic force used in micromanipulation systems*, IEEE-ECAI, 30 June-2 July, 2017, Targoviste, Romania, vol.9, no.1-2017, pp.123, ISSN 1843-2115, IEEE Catalog

number CFP 1727U-ART, [indexat ISI Web of Science](#).

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II. Proiecte Nationale (PN - 4) si Internationale (PI - 2) - cele mai importante in 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
- 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.

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.

PI1. Leonardo da Vinci Transfer of innovations project 2012-1-Gr1-LEO05-10057 „Enhance Attractiveness of Renewable Energy Training by Virtual Reality” – AVARES, 2012.

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III. Carti (6) si capitole de carti (3) in edituri internationale - cele mai importante in ultimii 10 ani (Obs. Capitolele publicate in ed. Springer, in numar de 13, au fost precizate la paragraful I ca publicatii cotate ISI-WoS):

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Prof.dr.ing. Horia ANDREI

