



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

Şef 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 Politehnică 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- prezent

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 Inginerești - 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.

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 abilități 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: **33 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) si 4 COST (director).

3. Publicatii stiintifice

- am publicat un numar total/prim autor de **327 / 164** articole și comunicări științifice in reviste internationale si nationale, si volume ale conferintelor internationale;
- dintre toate acestea **195 / 87** sunt in publicatii cotate **ISI WoS (59/24, 7 în reviste din zona roșie) și BDI (136/63)**;
- am publicat un numar total / prim autor de **53 / 31** carti, capitole de carti si monografiile tehnice; dintre acestea un numar total / prim autor de **8 / 6** sunt publicate la edituri recunoscute din strainatate;
- peste **600 de citări** în cărți și articole de specialitate, dintre care **142 de citări în lucrări cotate ISI WoS și 86 de citări în lucrări cotate SCOPUS**;
- **H-index: Google Scholar 14, i-10 index 18; 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 Instalatii 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.

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 științific 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”, 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;

- *Revizor stiintific al revistei 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;

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

- *Presedintel/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* : RJJAEM 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”.

- *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.

Anexe

Lista de lucrari

Martie 2019

Prof.dr.ing. Horia ANDREI



I. Publicatii - cele mai importante articole in Jurnale si Volume de Conferinte in ultimii 10 ani - total: 85 (indexate ISI Web of Science total: 44, dintre care 5 in zona rosie; alte baze de date internationale BDI – SCOPUS, IEEEExplore - total: 41):

Ri1. 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.

Ri2. 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.

Ri3. 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.

Ri4. 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](#).

Ri5. 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**.

Ri6. 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](#).

Ri7. D.Puchianu, I.Caciula, **H.Andrei**, E.Diaconu, P.C.Andrei, *New Approaches of Nonlinear Circuit Analysis in Frequency Domain*, IEEE-ECAI, 30 June-2 July, 2017, Targoviste, Romania, vol.9, no.1-2017, pp.116, ISSN 1843-2115, IEEE Catalog number CFP 1727U-ART, [indexat ISI Web of Science](#).

Ri8. C.A. Badea, **H.Andrei**, *Case Studies of Energy Efficiency in Wastewater Treatment Plant*, IEEE-ECAI, 30 June-2 July, 2017, Targoviste, Romania, vol.9, no.1-2017, pp.130, ISSN 1843-2115, IEEE Catalog number CFP 1727U-ART, [indexat ISI Web of Science](#).

Ri9. C.A. Badea, **H. Andrei**, *Optimization of Energy Consumption of an Wastewater Treatment Plant by Using Technological Forecasts and Green Energy*, IEEE-Int Conferecne on Environmnet and Electrical Engineering - EEEIC, 7-10 June, 2016, Florence, Italy, paper #054, pp. 167-171, ISBN 978-1-5090-2319-6/ IEEE Catalog number CFP 16511-CDR©2016, indexed by [ISI Web of Science](#).

Ri10. C.A. Badea, **H. Andrei**, A. Gonciaruc, E. Rus, *Predictive method to increse energy efficiency in Processes of Wastewater Treatment*, IEEE-Int Conf. Electronics, Computers and Artificial Intelligence – ECAI, 30 June-2 July, 2016, Ploiesti, Romania, paper #8-POS2, ISSN 1843-2115m IEEE Catalog number CFP 1627U-ART, indexed by [ISI Web of Science](#).

Ri11. G.Oprea, **H. Andrei**, *The optimization of energy consumption of an industrial consumer*, IEEE-Int Conf. Electronics, Computers and Artificial Intelligence – ECAI, 30 June-2 July, 2016, Ploiesti, Romania, paper #52-POS15, ISSN 1843-2115 IEEE Catalog number CFP 1627U-ART, indexed by [ISI Web of Science](#).

Ri12. Adela Husu, M.F. Stan, N. Fidel, C.Cobianu, **H. Andrei**, *Analysis of economic and energy efficiency for the grid-connected PV systems*, IEEE-Int Conf. Electronics, Computers and Artificial Intelligence – ECAI, 30 June-2 July, 2016, Ploiesti, Romania, paper #54-POS16, ISSN 1843-2115m IEEE Catalog number CFP 1627U-ART, indexed by [ISI Web of Science](#).

Ri12. G.Oprea, **H. Andrei**, *Power analysis of industrial company based on data acquisiyion system, numerical algorithms and compensation results*, IEEE-Int Symposium of Fundamentals of Electrical Engineering – ISFEE, 30 June-1 July, 2016, Bucharest, Romania, paper #148-POS15, indexed by [ISI Web of Science](#).

Ri13. I. Vasile, **H. Andrei**, M. Ardeleanu, V. Vasile, *Data acquisition system and biosignal analysis of cardio parameters by using photoplethysmography method*, ECAI, 25-26 June, 2015, Bucharest, Romania, vol. 7, no. 3/2015, pp. 67-71, IEEE Catalog number CFP 1527U-ART, ISSN 1843-2115, indexat [ISI Web of Science](#).

Ri14. G. Oprea, **H. Andrei**, *Measurement Data Analysis of Power Quality for Industrial Loads*, IEEE-Advanced Topics in Electrical Engineering - ATEE, 7-9 May, 2015, Bucharest, Romania, paper SIMOP P8, ISSN 2068-7966, indexed by [ISI Web of Science](#).

Ri15. Gh-I. Nicolaescu, **H. Andrei**, S. Radulescu, *DVR with Auxiliary DC Voltage Source Provided by a High Power Diode Based Rectifier Used in MV Connection Substations*, IEEE-Advanced Topics in Electrical Engineering - ATEE, 7-9 May, 2015, Bucharest, Romania, paper POWEL 8, ISSN 2068-7966, indexed by [ISI Web of Science](#).

Ri16. Gh-I. Nicolaescu, **H. Andrei**, S. Radulescu, *Improving the Electricity Distribution Services DVR with Auxiliary DC Voltage Source Provided by a High Power Diode Based Rectifier Used in MV*

Connection Substations, IEEE-Int Conference on Environment and Electrical Engineering - EEEIC, 10-13 June, 2015, Roma, paper #373, indexed by [ISI Web of Science](#).

Ri17. H. Andrei, P.C. Andrei, G. Oprea, B. Botea, *Basic Equations of Linear Electric and Magnetic Circuits in Quasi-stationary State Based on Principle of Minimum Absorbed Power and Energy*, Proc. IEEE-ISFEE, Bucharest, 28-29 Nov, 2014, pp. 1-6, 138, CFP1493Y-ART ISBN: 978-1-4799-6820-6, indexed by [ISI Web of Science](#).

Ri18. Mazza A, Chicco G, Andrei H, Rubino M, *Determination of the Relevant Time Periods for Intra-Day Distribution System Minimum Loss Reconfiguration*, International Trans. on Electrical Energy Systems, Vol. 25, Issue 10, pages 1992–2023, October 2015, doi: 10.1002/etep.1941, indexed by [ISI Web of Science](#), Impact Factor: 1.619.

Ri19. Andrei, H., Andrei, P.C., Mantescu G., *Matrix Formulation of Minimum Absorbed Energy Principle and Nodal Method of Magnetic Circuits Analysis*, Proc. of IEEE-14th International Conference on Optimization of Electrical and Electronic Equipment – OPTIM 2014, 22-24, May, Brasov, pp. 59-64, ISBN 978-1-4799-5183-8/14, indexed by [ISI Web of Science](#).

Ri20. Nicolaescu, Gh., Andrei, H., Radulescu, St. *Modeling and Simulation of Dynamic Voltage Restorer for Voltage Sags Mitigation in Medium Voltage Networks with Secondary Distribution Configurations*, Proc. of IEEE-14th International Conference on Optimization of Electrical and Electronic Equipment – OPTIM 2014, 22-24, May, Brasov, pp. 52-68, ISBN 978-1-4799-5183-8/14, indexed by [ISI Web of Science](#).

Ri21. Gh. Nicolaescu, H. Andrei, S. Rădulescu, *Dynamic Voltage Restorer Response Analysis for Voltage Sags Mitigation in MV Networks with Secondary Distribution Configuration*, in Proc. of the IEEE-EEEIC, Krakow, 10-12 May 2014, indexed by [ISI Web of Science](#).

Ri22. Spertino, F., Sumaili, J., Andrei, H., Chicco, G., *PV Module Parameter Characterization From the Transient Charge of an External Capacitor*, IEEE Journal of Photovoltaics, vol. 3, no. 4, Oct. 2013, ISSN 2165-3381, IJPEEG 8, pp. 1325-1333, indexed by [ISI Web of Science](#), Impact Factor 3.165.

Ri23. Diaconu, E. Andrei, H., Predusca, G., Pencioiu, P., Ursu, V., Hanek, M. Andrei P.C., Constantinescu, Luminita, *Modelling the charging characteristics of storage batteries for PV power systems*, Proc. of IEEE - Int. Conf. Electronics, Computers and Artificial Intelligence – ECAI, 27-29 June, 2013, Pitesti, Romania, vol. 5, no. 1/2013, ISSN 1843-2115, pp. 15-21, IEEE Catalog number CFP 1327U-ART, ISBN 978-1-4673-4937-6, indexed by SCOPUS, IEEEExplore.

Ri24. Ghita, M.R., Andrei, H., Marin, Oana, *Modelling of wind resource to the turbine hub height*, Proc. of IEEE - Int. Conf. Electronics, Computers and Artificial Intelligence – ECAI, 27-29 June, 2013, Pitesti, Romania, vol. 5, no. 2/2013, ISSN 1843-2115, pp. 53-59, IEEE Catalog number CFP 1327U-ART, ISBN 978-1-4673-4937-6, indexed by SCOPUS, IEEEExplore.

Ri25. Andrei, H., Andrei P.C., *Matrix Formulations of Minimum Dissipated Power Principles and Nodal Method of Circuits Analysis*, IEEE-Advanced Topics in Electrical Engineering - ATEE, 23-25 May, 2013, Bucharest, Romania, paper ELCI 1, ISBN 978-1-4673-5978-9, IEEE Catalog number CFP 1314P-CDR, indexed by [ISI Web of Science](#).

Ri26. Diaconu, E., Andrei, H., Puchianu, D., Predusca, G. *Advanced software system for optimization of car parking services in urban area*, IEEE-Advanced Topics in Electrical Engineering - ATEE, 23-25 May, 2013, Bucharest, Romania, paper SIMOP 8, ISBN 978-1-4673-5978-9, IEEE Catalog number CFP 1314P-CDR, indexed by [ISI Web of Science](#).

Ri27. Andrei, H., Nicolaescu, G., Radulescu, St., Andrei, P.C. *New Approach of PV Cell Efficiency*, IEEE- International Conference on Environmental and Electrical Engineering - EEEIC, 5-8 May, 2013, Wroclaw, Poland, paper 44, ISBN 978-1-4673-3058-9, Catalog number CFP 13511-CDR, indexed [ISI Web of Science](#).

Ri28. Andrei, H., Ivanovici, T., Andrei, P.C., Diaconu, E., Ghita, M.R., Marin, O., *Analysis and Experimental Verification of the Sensitivity of PV Cell Model Parameters*, IEEE-International Workshop on Symbolic and Numerical Methods, Modeling and Applications to Circuit Design - SMACD, 19-21 September, 2012, Sevilla, Spain, pp. 129-132, ISBN 978-1-4673-0684-3, Catalog number CFP 12105-CDR, indexed by SCOPUS, IEEEExplore.

Ri29. Andrei, H., Ivanovici, T., Predusca, G., Andrei, P.C., Diaconu, E. *Curve Fitting Method for Modeling and Analysis of Photovoltaic Cells Characteristics*, Proceedings of IEEE-TTTC International Conference on Automation, Quality and Testing, Robotics – AQTR 2012 (THETA 18), 24-27, May, Cluj Napoca, IEEE Catalog Number CFP12AQT-CDR, ISBN 978-1-4673-0703-1, indexed by [ISI Web of Science](#).

Ri30. Andrei, H., Ivanovici, T., Predusca, G., Andrei, P.C., Diaconu, E. *Irradiance Sensitivity of the Model Parameters of Photovoltaic Cells*, Proceedings of IEEE-13th International Conference on Optimization of Electrical and Electronic Equipment – OPTIM 2012, 24-26, May, Brasov, pp. 893-898, ISBN 978-1-4673-1653-8/12, indexed by [ISI Web of Science](#).

Ri31. Andrei, H., Marin, Oana, Ghita, M.R., Ivanovici, T., Nicolaescu, Gh., Nastase, L. and Andrei, P.C., *Measurement Data Analysis of Power Quality and Energy Efficiency for Residential Loads Sector*, Proceedings of IEEE - International Conference on Power and Energy Systems (ICECPS), Hong-Kong, China, 12-13 April, 2012, published in Lectures Notes in Information Technology-LNIT

journal, vol. 13, 2012, pp. 156-164, ISSN 2070-1918, indexed by [ISI Web of Science](#).

Ri32. Kadi, R., **Andrei, H.**, Gaubert, J.P., Ivanovici, T., Champenoise, G., Andrei, P., *Modelling Of The Photovoltaic Cell Circuit Parameters For Optimum Connection Model and Real-Time Emulator With Partial Shadow Conditions*, Energy, Elsevier, vol. 42, issue 1, June 2012, pp. 57-67, ISSN 0360-5442, indexed by [ISI Web of Science](#).

Ri33. Puica Nitu, **H. Andrei**, and G. Chicco, *Editorial WESC 2010 for Energy*, Elsevier, vol. 42, issue 1, June 2012, pp. 2, ISSN 0360-5442, indexed by [ISI Web of Science](#).

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II. Proiecte Nationale (PN - 12) si Internationale (PI - 5) - cele mai importante in ultimii 10 ani:

PN1. 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.

PN2. Qualification, Adaptation, Performance – for a better life, POSDRU/182/2.3/5/152783, 2015-2016, project manager.

PN3. Continuing vocational training in electrical and computer qualification, 2010-2011 POS-DRU project 24/2.3/G/17727, course director.

PN4. Opportunities for the unemployed through training courses in the electrical domain - 2007-2008 PHARE project, human resource development, promotion of human capital Phare/2004/016-772.04.02 Budget reference line 02, head of trainer team.

PN5. Sustainable resource management system for monitoring and assessing environmental risks to prevent the negative effects and manage the crisis situations – MEMDUR, 2007-2009 PNCDI program D11-037/18.09.2007, researcher.

PN6. Methods and equipments for testing longitudinal profiles under dynamic traffic roads - 2007-2009 PROLOG, PNCDI 5 Innovation program, 123/2007, responsible of the project.

PN7. Intelligent equipment for street lighting control systems-INTIL, 2008-2010 PNCDI program 5 Innovation, 56/2007, project manager.

PN8. Labor productivity growth through continuing education programs in electrical - 2006-2007 PHARE project, human resource development, promotion of human capital Phare/2004/016-772.04.02 Budget reference line 02, head of trainer team.

PN9. Guiding the formation of solidification structure by electromagnetic field-SOLID, 2006-2008 CE-EX program P-PD 300/2006, project manager.

PN10. Enhancing active measures for employment by supporting job training in the electrician, 2005-2006 PHARE project, program for economic and social / active labor market measures - budget line Phare/2003/005 -551.05.03.02, assistant project coordinator.

PN11. Electromagnetic processes of reconstruction of the defects forms -MAGNED, 2005-2008 CE-EX program P-PD 79/2005, responsible of the project.

PN12. Using spatial database management systems public utility, to align with EU standards, 2004-2007 AMTRANS program 7A10 / 09.09.2004, researcher.

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

PI2. Leonardo da Vinci LLP-LdV/Tol/2008/RO/010 „Mobile E-Novative Use of Elearning Technologies” - MENUET, 2008, local responsible

PI3. URBACT II Greening SMEs 2008-2009, local coordinator

PI4. Leonardo da Vinci RO/2006/97029-EX „Continuous Training Programme in the Field of Non-Destructive Technologies and Equipments for Structural Integrity Evaluation of Advanced Materials”, manager of „sending organization”, 2006-2007.

PI5. Advanced devices for micro and nano-scale manipulation and characterization (ADMAN), PN-II-RU-TE-2011-3-0299, 2011-2012, Professor-tutor (mentor).

III. Carti (8) si capitole de carti (9) in edituri internationale - cele mai importante in ultimii 10 ani:

1. 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, 353 pages.

2. 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, 353 pages.

3. 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, 631 pages
4. **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
5. 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.
6. **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.
7. **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.
8. 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.
9. 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.
10. **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 downloads (July, 2016)**
<http://www.intechopen.com/account/login>
11. **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.
12. **H. Andrei**, Fl. Stan, *Electrical Engineering: Electrotechnics and Electromechanical Converters (in Romanian: Inginerie Electrică Modernă. Electrotehnică și Convertoare 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.
13. Suduc, A.M., Bizoi, M., Virjoghe, E., Gorghiu, G., Stan, M. Fl., **Andrei, H.**, *CAD for electrical networks (in Romanian:Proiectarea asistata de calculator a retelelor electrice)*, Ed. Bibliotheca, Targoviste, 205 pg., 2009, ISBN 978-973-712-498-2.
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