Curriculum vitae Europass

CURRICULUM VITAE

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Informatii personale

Prenume / Nume	**Horia Leonard Andrei**
Adrese	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, resedinta
	Birou: Aleea Sinaia, 13, Targvoiste, 130004, Dambovita, Romania
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E-mail	hr_andrei@yahoo.com, horia.andrei@valahia.ro
Nationalitate	Romana
Data nasterii	15 mai 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
Activitătile principale si	Conducere de seminarii, lucrări de laborator: Bazele electrotehnicii, Masini electrice;

responsabilitătile detinute	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
Activitătile principale si responsabilitătile 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, Departamentul de Automatica, Informatica si Inginerie Electrica-DAIE, Blv. Unirii, nr. 18-20, 130084, Targoviste, Dambovita, Romania Scoala Doctorala de Stiinte Ingineresti - SDSI
Tipul de activitate sau sectorul	Academica: didactica si de cercetare
Ocupatia sau pozitia	Profesor universitar
Activitătile principale si responsabilitătile 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 din 2010; - Conducator stiintific a peste 100 de lucrari de licenta si disertatie incepand cu 1998; - Membru in peste 30 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
Numele si tipul de organizatiei care asigură educatia si formarea	UPB Bucureşti (program PHARE)
Titlul calificării acordate	"Inițiere 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 - Conducator de doctorat din 2005, avizat in IOSUD din 2010.

Aptitudini si competente personale

Limba materna	**Romana**
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 şi 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 şi cunoştințe 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/cercetator la *39 proiecte de cercetare ştiințifică*, dintre care: *21 proiecte de cercetare/dezvoltare/resurse umane obținute prin competiție națională*, *10 contracte de cercetare ştiințifică pe plan local,* fiecare cu mai multe faze, şi *8 programe de cooperare internațională;* la **15** 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 **306 / 129** articole şi comunicări ştiințifice in reviste internationale si nationale, si volume ale conferintelor internationale;
- dintre toate acestea **88 / 54** sunt in publicatii cotate **Thomson Reuters ISI Web of Science, IEEExplore şi SCOPUS;**
- am publicat un numar total / prim autor de **48 / 23** carti si monografii tehnice; dintre acestea un numar total / prim autor de **3 / 2** sunt publicate la edituri recunoscute din strainatate;
- peste **450 de citări** în cărți şi articole de specialitate, dintre care **137 de citări în lucrări cotate ISI si BDI;**
- **H-index: Google Scholar 11; Scopus 5; ISI Web of Knowledge/Science 5; media indicelui Hirsch** (calculata cf. Ordin Administratiei Publice 3185/2015) **MH-index = 6;**
- Scor individual pentru toata activitatea universitara (calculat cf. Ordin Administratiei Publice 3185/2015) **SI = 8.82.**

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 şi Automatizări din România) din 2001;
- *AIEER* (Asociația Inginerilor de Electrotehnică şi 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 stiintific al revistelor internationale cotate ISI Web of Science*: "AA-Acta Astronautica", „MSB-Materials Science and Engineering B", „JPROCONT-Journal of Process Control" and „APEN-

Applied Energy" - Elsevier Editorial System; „IEEE - Transactions on Industrial Electronics (TIE)"; „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 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+ si de Index Copernicus – Master Journal List;

- *Redactor sef al revistei* „The Scientific Bulletin of Electrical Engineering Faculty"- " cotate de CNCSIS in categoria B+ si de 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;

-*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,* : 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, 2011, 2013, 2014, 2015 Univ. Pitesti; 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;

- *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 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".

- *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

Ian 2016 Prof.dr.ing. Horia ANDREI

Anexe

I. Publicatii - cele mai importante articole in Journale si Conference Proceedings in ultimii 10 ani total: 68 (indexate ISI Web of Science total: 39; indexate IEEExplore total: 9; alte baze de date internationale - BDI, total: 20):

Ri1. 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.

Ri2. 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.

Ri3. 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.

Ri4. Gh-I. Nicolaescu, **H. Andrei**, S. Radulescu, *Improving the Electrcity 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.

Ri5. 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 IEEExplore.

Ri6. 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.

Ri7. 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.

Ri8. 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.

Ri9. 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.

Ri10. 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, IJPEG 8, pp. 1325-1333, indexed by ISI Web of Science.

Ri11. 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 Google Scholar, IEEExplore.

Ri12. 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, IEEExplore.

Ri13. 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.

Ri14. 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.

Ri15. 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 SCOPUS, IEEExplore.

Ri16. 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, IEEExplore.

Ri17. 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.

Ri18. 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 SCOPUS, IEEExplore.

Ri19. 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.

Ri20. Kadri, R.,**Andrei, H.,** Gaubert, JP., 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.

Ri21. 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.

Ri22. **Andrei, H.,** Ivanovici, T., Ghita, M.R., Cepisca, C., Andrei, P.C., *Analysis of the PV Panels Connections Using the Four-Terminal Parameters Equations,* Proceedings of IEEE-PowerTech, Trondheim, June 19-24, 2011, pp. 230-237, ISBN 978-82-519-2808-3, indexed by ISI Web of Science.

Ri23. **Andrei, H.,** Marin, O., Spinei, F., Cepisca, C., Andrei, P.C., *Topological Algorithm for Linear Multi-Port Network Functions Determination,* Proceedings of IEEE-CSAE, Shanghai, June 10-12, 2011, vol. 2, pp. 20-25, ISBN 978-1-4244-8725-7, indexed by ISI Web of Science.

Ri24. Andrei, H., Nastase, L., Diaconu, E., Cepisca, C., Grigorescu, S.D., Andrei, P.C., *Contributions on Sensitivity Analysis for the Analog Two-Port Networks in Non-sinusoidal Regime*, IEEE-EUROCON 2011 International Conference on Computer as a Tool - ConfTele 2011,27-29 April, 2011, Lisbon, Portugal, IEEE Catalog Number: CFP11EUR-CDR, ISBN 978-1-4244-7485-1, indexed by ISI Web of Science.

Ri25. Andrei, H., Cepisca, C., Grigorescu, S.D., Andrei, P.C., *Sensitivity Analysis of the Multiple FeedBack Filter in Non-sinusoidal Regime*, 2010 XIth IEEE-International Workshop on Symbolic and Numerical Methods, Modeling and Applications to Circuit Design - SM2ACD, 4-6 October, 2010, Gammarth, Tunisia, 05-29-04, IEEE Catalog Number:CFP1068J CDR, ISBN 978-1-4244-6815-7, indexed by SCOPUS, IEEExplore.

Ri26. Andrei, H., Spinei, F., Cepisca, C., Andrei, P.C., *Mathematical Solution to Solve the Minimum Power Point Problem for DC Circuits,* IEEE-AQTR Conference, May, 28-30, Cluj Napoca, 2010, pp.322-328, IEEE Catalog Number:CFP10AQT-PRT, ISBN 978-1-4244-6722-8, indexed by ISI Web of Science.

Ri27. Andrei, H., Cepisca, C., Grigorescu, S.D., Andrei, P.C., Silaghi, M. *Sensitivity Analysis of the Linear Networks in Non-Sinusoidal Regime,* IEEE-AQTR Conference, May, 28-30, Cluj Napoca, 2010, pp.322-328, IEEE Catalog Number:CFP10AQT-PRT, ISBN 978-973-662-562-6, indexed by ISI Web of Science.

Ri28. Andrei H., Spinei, F., Cepisca, C., Andrei, P., Vasile, N.. *Modelling of the Power Factor for AC Linear Circuits under Non-sinusoidal Conditions,* Proceedings of 15th IEEE Mediterranean Electromechanical Conference-MELECON, April 26-28, 2010, Valetta, Malta, pp. 353-358, IEEE Catalog Number:CFP10MEL-CDR, ISBN 978-1-4244-5794-6, indexed by ISI Web of Science.

Ri29. Andrei H., Spinei, F., Andrei, P., Rohde, U., Silaghi, M., Silaghi, H., *Evaluation of Hilbert Space Techniques and Lagrange's Method for the Analysis of Dissipated Power in DC Circuits,* Proceedings of European Conference on Circuit Theory and Design-ECCTD'09, August 23-27, Antalya, Turcia, pp. 862-865, IEEE Catalog Number:CFP09ECC-CDR, ISBN 978-1-4244-3896-9, Library of Congress: 2009900553, indexed by ISI Web of Science.

Ri30. Andrei, **H**., Cepisca, C., Dogaru, V., Ivanovici, T., Stancu, L., Andrei, P.C., *Measurements Analysis of Advanced System for Reducing the Energy Consumption of Public Street Lighting Systems,* Proceedings of IEEE-PowerTech, Bucharest, June 26-July 2, 2009, pp. 684-690, IEEE Catalog number: CFP09815-CDR, ISBN 987-1-4244-2235-7, Library of Congress: 2008901840, indexed by ISI Web of Science.

Ri31. Andrei, **H**., Cepisca, C., Jula, N., Andrei, P.C., Stancu, L., *Contributions Concerning the Sensitivity Analysis of the Analogue Two-Ports for Communications,* Proceedings of the European Computing Conference (ECC'09) & 3-rd International Conference on Computational Intelligence (CI'09), Tbilisi, Georgia, June 26-28, 2009, published by WSEAS Press, pp.197-202, ISSN 1790-

5117, ISBN 978-960-474-088-8, indexed by ISI Web of Science.

Ri32. Cepisca, C., **Andrei**, **H**., Dogaru, V., Stancu, L., Darie, E., *Experimental Analysis of Advanced System for Reducing the Energy Consumption of Public Street Lighting Systems,* Proceedings of the European Computing Conference (ECC'09) & 3-rd International Conference on Computational Intelligence (CI'09), Tbilisi, Georgia, June 26-28, 2009, published by WSEAS Press, pp.160-164, ISSN 1790-5117, ISBN 978-960-474-088-8, indexed by ISI Web of Science.

Ri33. H. Andrei, F. Spinei, I. Caciula, P.C.Andrei, *Systematic analysis of the electric power and magnetic energy for linear electric and magnetic circuits with modifiable parameters,* IEEE-EUROCON2009, St. Petersburg, May 18-23, ISBN 978-1-4244-3861-7, IEEE catalog Number CFP09EUR-CDR, pp.216-223, indexed by ISI Web of Science.

Ri34. Cepisca, C. **Andrei**, **H**., Grigorescu, S.D., Perpelea, M., Stancu, I. Dogaru,V., *Computerized Expert System for Lighting Grids*Proceedings of the 7th WSEAS International Conference on Circuits, Systems, Electronics, Control and Signal Processing (CSECS 08), pp.133-138, Puerto de la Cruz, Tenerife, Spain, December 15-17,2008, Electrical and Computer Engineering Series, WSEAS Press, ISSN 1790-5117, ISBN 978-960-474-035-2, indexed by SCOPUS.

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II. Proiecte Nationale (PN - 11) si Internationale (PI - 5) - cele mai importante in ultimii 10 ani:

PN1. Qualification, Adaptation, Performance **–** for a better life, POSDRU/182/2.3/5/152783, 2015-2016, project manager.

PN2. Continuing vocational training in electrical and computer qualification, 2010-2011 POS-DRU project 24/2.3/G/17727, course director.

PN3. 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.

PN4. 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.

PN5. Methods and equipments for testing longitudinal profiles under dynamic traffic roads - 2007-2009 PROLOG, PNCDI 5 Innovation program, 123/2007, responsible of the project.

PN6. Intelligent equipment for street lighting control systems-INTIL, 2008-2010 PNCDI program 5 Innovation, 56/2007, project manager.

PN7. 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.

PN8. Guiding the formation of solidification structure by electromagnetic field-SOLID, 2006-2008 CE-EX program P-PD 300/2006, project manager.

PN9. 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.

PN10. Electromagnetic processes of reconstruction of the defects forms -MAGNED, 2005-2008 CE-EX program P-PD 79/2005, responsible of the project.

PN11. 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 (7) si capitole (4) de carti in edituri internationale - cele mai importante in ultimii 10 ani:

1. **H. Andrei** (coordinator), C. Fluerasu, Elena Vîrjoghe, Corina Fluerasu, 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.

2. 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.

3. 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.

4. 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 12000 downlods (Jan, 2015)**
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5. 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.

6. H. Andrei, Fl. Stan, *Electrical Engineering: Electrotechnics and Electromechanical Converters (in Romanian: Inginerie Electrică Modernă. Electrotehnică şi Convertoare Electromecanice. Teorie şi aplicații), vol. 1, 2,* Ed. Bibliotheca, Targoviste, 2010, 900 pag., ISBN 978-93-712-563-7, ISBN 978-973-712-565-1.

7. 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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IV. Citari ale articolelor indexate ISI Web of Science si BDI in reviste si volume de conferinte indexate ISI Web of Science si BDI: total 128 - cele mai importante (76) in ultimii 10 ani sunt:

a) – Articol citat: Cepişca, C., **Andrei, H**., Dogaru-Ulieru, V. *Evaluation of the parameters of a magnetic hysteresis model*, Journal of Materials Processing Technology, volume 181, issue 1-3, year 2007, pp. 172 – 176, indexed **ISI Web of Science**, **impact factor 2,041**.

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a2) Huang, J., Li, X.. Contactor-less OLTC system based on dynamic model, Electric Power Automation Equipment 31 (8), pp. 52-57, 2011, indexed **SCOPUS.**

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b) – Articol citat: Andrei, H., Dogaru-Ulieru, V., Chicco, G., Cepisca, C., Spertino, F., *Photovoltaic applications,* Journal of Materials Processing Technology, volume 181, issue 1-3, year 2007, pp. 267 – 273, indexed **ISI Web of Science**, **impact factor 2,041**.

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b1) Jiang, J.-A., Wang, J.-C., Kuo, K.-C., Su, Y.-L., Shieh, J.-C., Chou, J.-J, *Analysis of the junction temperature and thermal characteristics of photovoltaic modules under various operation conditions*

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b7) Cvrk, I. , *Operational properties of a photovoltaic system with three single phase inverter*, 8th International Conference on the European Energy Market (EEM), 25-27 May 2011, Page(s):57 – 62, Indexed **SCOPUS**, **IEEExplore**.

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c) – Articol citat: Kadri, R., **Andrei, H.,** Gaubert, JP., 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 42 (2012), pp. 57-67, indexed **ISI Web of Science**, **impact factor 2,337.**

- Articole care citeaza:

c1) *The application of dynamic modelling techniques to the grid-connected PV (photovoltaic) systems*, K.H. Lam, T.M. Lai, W.C. Lo, W.M. To, Energy 46 (2012)-Elsevier, ISSN 0360-5442, pp. 264-274, indexed **ISI Web of Science** , **factor impact 4,159.**

c2) *Characterization of PV panel and global optimization of its model parameters using genetic algorithm*, M.S. Ismail, ,M. Moghavvemi, T.M.I. Mahlia, Energy Conversion and Management – Elsevier, ISSN: 0196-8904, **ISI Web of Science, Impact Factor 2.216**, Volume 73, September 2013, Pages 10–25.

c3) *Experimental investigation of partial shading scenarios on PV (photovoltaic) modules*, Alberto Dolar, George Cristian Lazaroiu, Sonia Leva, Giampaolo Manzolinia, Energy, Volume 55, 15 June 2013, Pages 466–475, ISSN 0360-5442, indexed **ISI Web of Science**, **factor impact 4,159.**

c4) *New MPPT method for stand-alone photovoltaic systems operating under partially shaded conditions*, Bouilouta, A., Mellit, A., Kalogirou, S.A., Energy 55, pp. 1172-1185, 2013,ISSN 0360-5442, indexed **ISI Web of Science**, **factor impact 4,159**

c5) *Programmable energy source emulator for photovoltaic panels considering partial shadow effect,* Chen, C.-C., Chang, H.-C., Kuo, C.-C.,Lin, C.-C, 2013, Energy 54, pp. 174-183, ISSN 0360-5442, indexed **ISI Web of Science**, **factor impact 4,159**

c6) *Energy harvesting from the PV Hybrid Power Source,* N. Bizon, 2013, Energy 52, pp. 297-307, ISSN 0360-5442, indexed **ISI Web of Science**, **factor impact 4,159**

*c***7)** *Modeling and maximum power point tracking (MPPT) method for PV array under partial shade conditions***,** Qi, J., Zhang, Y., Chen, Y., Renewable Energy, volume 66, issue , year 2014, pp. 337 – 345, ISSN: 0960-1481, indexed **ISI Web of Science, factor impact 3,361**

c8) *On-grid and off-grid batch-ED (electrodialysis) process: Simulation and experimental tests,* Uche, J., Círez, F., Bayod, A.A., Martínez, A., Energy, volume 57, issue , year 2013, pp. 44 – 54, ISSN 0360-5442, indexed **ISI Web of Science**, **factor impact 4,159**

c9) *Solar car aerodynamic design for optimal cooling and high efficiency*, Vinnichenko, N.A., Uvarov, A.V., Znamenskaya, I.A., Ay, H., Wang, T.-H., Solar Energy, volume 103, issue , year 2014, pp. 183 – 190, ISSN: 0038-092X, indexed **ISI Web of Science, impact factor 3.541**

c10) *Design of a Plant Leaf Area Meter Using PV Cell and Embedded Microcontroller,* Dilşad Engin, Mustafa Engin, Advances in Materials Science and Engineering, Volume 2013 (2013), Article ID 393045, 8 pages, http://dx.doi.org/10.1155/2013/393045, indexed **ISI Web of Science, impact factor 0,5**

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