



Curriculum vitae Europass

CURRICULUM VITAE



Personal information

First name(s) / Surname(s)

Horia Leonard Andrei

Address(es)

Home address: 43, Blvd. Nicolae Grigorescu, Bl. D1, Sc. A, ap.2, sector 3, 030443, Bucharest, Romania

Residence address: 1, Plaiului str., Moreni, 135300, Dambovita, Romania

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Nationality

Romana

Date of birth

May 15th 1954

Gender

Male

Desired employment / Occupational field

Work experience

Dates

1979-1982

Occupation or position held

SC ROMLUX SA, Targoviste, Romania

Main activities and responsibilities

Industrial activity, design of electric equipments, and control systems

Name and address of employer

Trainee Engineer

Type of business or sector

Maintenance and design of electric equipments, control systems

Dates

1982-1991

Occupation or position held

Assistant

Main activities and responsibilities

Teaching and research

Name and address of employer

University Politehnica of Bucharest, Romania, Department of Electrotechnics

Type of business or sector

University (Academic)

Seminars, laboratory: Fundamentals of Electrotechnics, Electrical drives;

Courses: Fundamentals of Electrotechnics, Industrial Electronics.

Dates

1991-1999

Occupation or position held

Lecturer

Main activities and responsibilities

Teaching and research

Name and address of employer

University Politehnica of Bucharest, Romania, Department of Electrotechnics

Type of business or sector

University (Academic)

Seminars and laboratory: Fundamentals of Electrotechnics, Electrical drives;

Courses: Fundamentals of Electrotechnics, Electrotechnics and Electrical Drives, Industrial Electronics.

Dates 1999-2002

Occupation or position held Assistant professor

Main activities and responsibilities - Teaching and research;
- Academic Advisor or Co-Advisor of over 20 Final Theses for the License and MSc degree in Electrical Engineering since 1999.

Name and address of employer University Politehnica of Bucharest, Romania, Department of Electrotechnics

Type of business or sector University (Academic)

Seminars and laboratory: Fundamentals of Electrotechnics, Electrical drives;
Courses: Fundamentals of Electrotechnics, Electrotechnics and Electrical Drives.

Dates 2000- present

Occupation or position held Professor at University Valahia of Targoviste, Doctoral School of Engineering Sciences;
Supervisor (Tutor) of PhD candidates in Electrical Engineering 2010- present;
Head of Electrotechnical Department 2000-2004, Vice-Dean of Electrical Engineering Faculty 2004-2008, Vice-Director of Automatics, Informatics and Electrical Engineering Department 2008-2012.

Main activities and responsibilities - Teaching and research;
- Academic Advisor of over 100 Final Thesis for the License and MSc degree in Electrical Engineering since 1998;
- Member of over 30 Final degree Examination Commission for the Electrical Engineering PhD (Doctorate) since 2000.

Name and address of employer University Valahia of Targoviste, Bd. Carol I, Nr. 2, 130024, Targoviste, Dambovita, Romania

Type of business or sector University (Academic), teaching and research activities.

Education and training

Dates 1969-1973

Title of qualification awarded Baccalaureate degree

Principal subjects/occupational skills covered Learning activities

Name and type of organisation providing education and training Theoretical High School no. 1 of Moreni, Dambovita, Romania

Level in national or international classification High school graduate

Dates 1974-1979

Title of qualification awarded MSc (Engineer Diploma) in Control Systems and Computer Science

Principal subjects/occupational skills covered Learning and research activities

Name and type of organisation providing education and training Faculty of Control Systems and Computer Science, University (Institute) Politehnica of Bucharest, Romania

Level in national or international classification MSc (Engineer Diploma)

Dates 1996

Title of qualification awarded PhD in Electrical Engineering

Principal subjects/occupational skills covered Teaching and research activities

Name and type of organisation providing education and training Facultaty of Electrotechnics (Electrical Engineering), University Politehnica of Bucharest, Romania

Level in national or international classification PhD

Personal skills and competences

Other language(s)

Self-assessment

European level (*)

Language-English

Understanding		Speaking		Writing	
Listening	Reading	Spoken interaction	Spoken production		
Very Good	Very Good	Very Good	Very Good	Very Good	

Language-French	Very Good	Very Good	Very Good	Very Good	Very Good e
Social skills and competences	Many friends, sociable				
Organisational skills and competences	Ability to work in team, administrative and management competences				
Technical skills and competences	Very good didactical and research competences; technical skills: CAD and CADDY++ applications				
Computer skills and competences	Microsoft Office, Basic, Pascal, C++, SPICE, PSPICE, Matlab/Simulink, LabVIEW				
Artistic skills and competences	Music and painting				
Other skills and competences	Competences in mathematics and physics				
Driving licence	B				
Additional information	<p>1. Specializations and qualifications:</p> <ul style="list-style-type: none"> - <i>Graduate</i> of the PHARE program RO9807.01.01.02.0030 "Getting Started in Project Management" at University Politehnica of Bucharest, Romania; - <i>Trainer accreditation</i> CPI-SA technique for teaching and knowledge of computer science; - <i>European Computer Driving Licence</i> - ECDL RO 007634 <p>2. Research activity - Experience (including managerial experience) in national and international projects:</p> <ul style="list-style-type: none"> - 39 (31 / 8) national/international projects, in 15 of them I have been director or responsible; - 1 H2020, 1 IEE, 2 FP7 and 4 COST proposals. <p>3. Publications:</p> <ul style="list-style-type: none"> - I have published a total number / first author of 312 / 129 papers and articles in international and national journals and in the proceedings of international scientific conferences; - 94 / 54 of them are published in journals and conferences proceedings indexed by Thomson Reuters ISI Web of Science, IEEEExplore, and SCOPUS; - I have published a total number / first author of 50 / 23 books and technical monographs; - More than 480 citations in books and articles, including 158 citations in ISI Thomson Reuters (92) and other International Databases; - H-index: 11 <p>4. Member of professional associations:</p> <ul style="list-style-type: none"> - Senior Member <i>IEEE</i> (Institute of Electric and Electronic Engineering): Circuits and Systems (CAS) Society since 2012 (Membership since 2006), IEEE Broadcast Technology Society Membership since 2011; - AGIR (General Association of Romanian Engineers), since 2014; - AMSE (Association for the Advancement of Modeling and Simulation techniques in Enterprises) since 1986; - WSEAS (World Scientific and Engineering Academy and Society), since 2005; - SIEAR (Romanian Electrical Installations and Automatization Engineers Society) since 2001; - AIEER (Romanian Electrical and Electronical Engineers Society) since 2003; - SRR (Romanian Society of Robotics), since 2006. <p>5. International experience, national and international recognition:</p> <ul style="list-style-type: none"> - <i>Visiting Professor</i> : University of Rouen, France, 2005, Politecnico di Torino, Italy, 2006, 2007, 2009, 2014; University College of Engineering – Copenhagen, Denmark, 2010, under the Socrates/Erasmus Staff Exchange Programme; - <i>Reviewer of the international journals indexed by ISI Web of Science</i>: "AA-Acta Astronautica", "MSB-Materials Science and Engineering B", "JPROCONT-Journal of Process Control" and "APEN-Applied Energy" - Elsevier Editorial System; "Journal of Electrical and Electronics Engineering Research-JEER"; "IEEE - Transactions on Industrial Electronics (TIE)"; "IEEE - Transactions on Very Large Scale Integration Systems (TVSLI), AKTA-IMEKO; - <i>Reviewer of the national journals</i>: "The Scientific Bulletin of Electrical Engineering Faculty", "Journal of Electrical and Electronics Engineering", "Electrotechnics, Electronics and Control Systems – EEA" indexed by Romanian CNCSIS with classification B+ and by Index Copernicus – Master Journal List; - <i>Editor in chief of the journal</i> "The Scientific Bulletin of Electrical Engineering Faculty-SBEEF"; Co-Chief Editor of the "Journal of Electrical Engineering, Electronics, Control and Computer Science-JEECCS"; - <i>Expert of European IEE-EACI – Programme</i>; 				

- *Invited presentation/paper* : WSEAS Bucharest 2006 and Rhodes 2008, IEEE-ECAI Pitesti 2010, EW-DGSRES Pitesti 2012;

- *National evaluator-expert* of the research proposals for: PNCDI, CE-EX, RELANSIN, CNCSIS, CERES, AMCSIT;

- *Chairmen of conferences*: ISEM 2000 Univ. Valahia Targoviste; ISEE 2001, 2002, 2003, 2004, 2005, 2007, 2009, 2011 Univ. Valahia Targoviste; WSEAS 2006 Bucharest, WSEAS 2008 Rhodes; WESC 2010 Targoviste;

- *Member of the Conferences Scientific/Organizing/Program Committee, Reviewer*: 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, Rhodes 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;

- *Award and Honors*: Included in “Who’s Who in the World - Who’s Who in Science and Engineering”, VIP Number 32846430 since 2008, pp. 77; Included in “The IBC Leading Engineers of the World 2008”, International Biographical Centre, Cambridge, England; I received “Diploma of Excellence” from the 13-th National Inventions Conference, Iasi, Romania, 4-6 June, 2009; Nominee at ENI Award in 2010, 2011; I received „Diploma of Excellence” from University „Stefan cel Mare” of Suceava, Romania, 28 June 2012; I received the grade of Senior Member IEEE, Oct. 2012; I received „Certificate of Excellence” from Romanian National Commission for UNESCO, 30 Oct. 2012; I received from Elsevier – Journal of Applied Energy - APEN „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* of Special issue of *Energy Journal* (ISI Web of Science, ISSN 0360-044) dedicated to a selection of scientific papers presented at the 8th World Energy System Conference (WESC), Targoviste, 2010.

I. Publications - most important articles/papers in Journals and Conference Proceedings in the last 10 years total: 68 (indexed by ISI Web of Science total: 40; indexed by other international databases BDI – SCOPUS, IEEEExplore - total: 28):

- 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, indexed at [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 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 - IEEEIC, 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 [ISI Web of Science](#).
- 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-IEEEIC, 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, IJPEEG 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 SCOPUS, IEEEExplore.
- 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, IEEEExplore.
- 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 - IEEEIC, 5-8 May, 2013, Wroclaw, Poland, paper 44, ISBN 978-1-4673-3058-9, Catalog number CFP 13511-CDR, indexed [ISI Web of Science](#).
- 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, IEEEExplore.

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 CFP12AQTR-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, IEEEExplore.

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, 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.

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, IEEEExplore.

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: CFP10AQTR-PT, 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: CFP10AQTR-PT, 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 978-1-4244-2235-7, 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.

Ri35. Andrei, H., Spinei, F., Jula, N., *The Principle of Minimum Dissipated Power and Minimum Energetic Principle-Two general Theorems of the Linear Electric and Magnetic Circuits in Stationary Regime*, Proceedings of 8th WSEAS In. Conference on Systems Theory and Scientific Computation – ISTASC'08, Rodos Island, Greece, August 20-22, 2008, pp. 75-87, ISSN 1769-2790, ISBN 978-960-6766-96-1, indexed by SCOPUS.

Ri36. Cepisca, C., Macrea, D., Andrei, H., *Calculation of the required energy for a stretch reducing mill*, 10th WSEAS International Conference on Automatic Control, Modelling and Simulation, Istanbul, Turkey, May 27-30, 2008, ACMOS '08, Proc. of 10th WSEAS Int. Conf. on Automatic, Control, Modelling and Simulation, Book Series: Electrical and Computer Engineering Series, pp. 317-320, indexed by [ISI Web of Science](#).

Ri37. Andrei, H., Chicco, G., *Identification of the radial configurations extracted from the weakly meshed structures of electrical distribution systems*, IEEE Transactions on Circuits and Systems, regular papers, May 2008, vo. 55, number 4, pp. 1149-1158, ISSN 1549-8328, indexed by [ISI Web of Science](#).

Ri38. Andrei, H., Chicco, G., Spinei, F., Cepisca C., *Minimum energy principle for electric and magnetic circuits in quasi-stationary regime*, Journal of Optoelectronics and Advanced Materials, vol. 10, No. 5, May 2008, 1203-1207, ISS.5-2008, indexed by [ISI Web of Science](#).

Ri39. Andrei, H., F. Spinei, C. Cepisca, I. Caciula, P.C. Andrei, *The Systematic Analysis of the Absorbed Power in D.C. Networks with Modifiable Parameters Using a New Mathematic Algorithm*, IEEE-AQTR Conference, May, 22-25, Cluj Napoca, 2008, IEEE catalog number CFP08AQT-PRT, pp. 121-124, ISBN 978-1-4244-2576-1, indexed by [ISI Web of Science](#).

Ri40. Cepisca, C., Andrei, H., Ganatsios, S., Grigorescu, S. *Power Quality and Experimental Determinations of the Electric Arc Furnace*, IEEE-MELECON'2008, Proceedings, Ajaccio, France, 5-7 May, pp. 567-572, IEEE Catalog number CFP08MEL-CDR, ISBN 978-1-4244-1633-2, tome II, pp. 121-125, indexed by [ISI Web of Science](#).

Ri41. Andrei, H. Spinei, F., *An extension of the minimum energy principle in stationary regime for electric and magnetic circuits*, Rev. Roum. Sci. Techn., Electroteh. et Energ.- Editura Academiei Romane, Tome 52, pp. 419-427, Bucharest, 2007, indexed by [ISI Web of Science](#).

Ri42. Andrei, H., Cepisca, G., Grigorescu, S.D., Spinei, F., Caciula, I., Andrei, P.C. *The Minimum Dissipated Active and Reactive Power: an Equilibrium State of the Circuits under Nonsinusoidal Conditions*, Proceedings of the 7th WSEAS International Conference on Simulation, Modelling and Optimization – SMO'07, Beijing, China, September 15-17, 2007, pp. 284-288, ISSN 1790-5117, ISBN 978-960-6766-07-7, indexed by SCOPUS.

Ri43. Andrei, H., Spinei F. *The Minimum Energetical Principle in Electric and Magnetic Circuits*, IEEE – ECCTD Proceedings, Sevilla, Spain, August, 26-30, 2007, pp. 906-909, IEEE Catalog number 07EX1835C, ISBN 1-4244-1342-7, indexed by [ISI Web of Science](#).

Ri44. Andrei, H., Chicco, G., Popa, M., Silaghi, M. *Characterization of the Radial Structure for the Operation of a Real Medium Voltage Distribution System*, International Journal of Energy, Springer, issue 2, vol. I, 2007, pp. 55-58, ISSN 1998-4316, indexed by [ISI Web of Science](#).

Ri45. Andrei, H., Chicco, G., Coroiu, N., Popa, M., Silaghi, M. *Investigating on the Possible radial Structure of a Real Medium Voltage Distribution System*, Proceedings of the 7th WSEAS International Conference on System Theory and Scientific Computation – ISTASC'07, Vougliameni, Athens, Greece, August 24-26, 2007, pp. 306-309, ISSN 1790-5117, ISBN 978-960-6766-01-5, indexed by SCOPUS.

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Domain Analysis of Non-Linear Circuit Elements, Proceedings IMCAS-WSEAS 2006, 10-12 April, Huangzhou, China, pp. 1-5, ISSN 1720-5109, 1790-5117, ISBN 960-8457-43-2, indexed by SCOPUS.

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II. National (PN - 12) and international (PI - 5) projects most important in the last 10 years:

PN1. Monitoring system for advanced aerial and ground inspection of critical infrastructures-SMIATIC, POC 2014-2020, Priority Axe 1 - Research, technological development and innovation (CDI) for economic competitiveness and business development, researcher.

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. Books (8) and Chapters (4) inside the international books most important in the last 10 years:

1. 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.

2. H. Andrei (coordinator), C. Fluerașu, Elena Vîrjoghe, Corina Fluerașu, Diana Enescu, Dorina Popovici, Adela Husu, P. C. Andrei, G. Predusca, E. Diaconu, *Metode numerice, modelari si similari*

- 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.
3. 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.
 4. V. Dogaru Ulieru, C. Cepisca, 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.
 5. 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>
 6. 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.
 7. 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.
 8. 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.
 9. Dogaru-Ulieru, V., Andrei, H., *Introduction in Electrical Engineering (In Romanian: Elemente de inginerie electrica)*, Ed. Printech, Bucuresti, 2009, 260 pg., ISBN 978-606-521-297-8.
 10. Stan, M.Fl., Vrăbiescu, L., Andrei, H., Gorghiu, G., *Visual Studio. Net C++. Applications (in Romanian: Visual studio.Net-C++ Aplicații software pentru structuri termopan)*, Ed.Bibliotheca, Targoviste, 185 pg., 2008, ISBN 978-973-712-375-6.
 11. Andrei, H., Fluierasu, C., Badea, A.C., Caciula, I.V., Stan, Fl. *Numerical Methods in Electrical Engineering. Applications in C++ and TurboPascal (in Romanian and French: Metode numerice în ingineria electrică. Aplicații în C++ și TurboPascal. Methodes de calcul numerique en ingenierie electrique. Applications en C++ et TurboPascal)*, Ed. Bibliotheca, Targoviste, 2008, 142 pag., ISBN 978-973-712-376-3.
 12. Andrei, H., *Fundamentals of Electrotechnics. Electrical Circuits. Theory and Applications (in Romanian: Bazele Electrotehnicii. Circuite Electrice. Teorie si aplicatii)*, Editura Bibliotheca, Targoviste, 2006, 303 pg., ISBN 973-712-095-7.

IV. . Citations of my articles indexed by ISI Web of Science in articles published in Journals and Conference Proceedings indexed by ISI Web of Science and in other Int DataBase (BDI): total 158 - most important (92) in the last 10 years are:

- a) – Cited article: Cepisca, 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.
 - Articles which cite:
 - a1) Khosroshahi, M.E., Ghazanfari, L., *Synthesis and functionalization of SiO₂ coated Fe₃O₄ nanoparticles with amine groups based on self-assembly*, Materials Science and Engineering C, , volume 32, issue 5, year 2012, pp. 1043 – 1049, indexed ISI Web of Science, impact factor 2,736.
 - a2) Huang, J., Li, X.. *Contactless OLTC system based on dynamic model*, Electric Power Automation Equipment 31 (8), pp. 52-57, 2011, indexed SCOPUS.
 - a3) Salas, R.A., Pleite, J. *Accurate modeling of voltage and current waveforms of nonlinear inductors with finite elements* IEEE International Symposium on Industrial Electronics , art. no. 5213146, pp. 1630-1633, 2009, indexed SCOPUS, IEEEExplore.
 - a4) Pop N. C.; Caltun O. F., *Jiles-Atherton Magnetic Hysteresis Parameters Identification*, ACTA PHYSICA POLONICA A Vol. 120, Issue 3, 2011, pp. 491-49, indexed ISI Web of Science, impact factor 0,6.
 - a5) Salas R. A.; Pleite J., *Accurate modeling of voltage and current waveforms with saturation and power losses in a ferrite core via two-dimensional finite elements and a circuit simulator*, JOURNAL OF APPLIED PHYSICS, Vol. 107, Issue 9, May 2010, indexed ISI Web of Science, impact factor 2,185.
- b) – Cited article: 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* Energy, volume 44, issue 1, year 2012, pp. 292 – 301, indexed [ISI Web of Science](#), impact factor 4,16.
- b2) Murtaza, A., Chiaberge, M., Boero, D., De Giuseppe, M., *A maximum power point tracking technique based on bypass diode mechanism for PV arrays under partial shading*, Energy and Buildings, volume 73, issue , year 2014, pp. 13 – 25, indexed [ISI Web of Science](#), impact factor 3,254.
- b3) V. Katsioulis, E. Karapidakis, M. Hadjinicolaou, A. Tsikalakis, *Wireless Monitoring and Remote Control of PV Systems Based on the ZigBee Protocol*, Springer, Technological Innovation for Sustainability, IFIP Advances in Information and Communication Technology Volume 349, 2011, pp 297-304, indexed [ISI Web of Science](#), impact factor 2,024.
- b4) Carullo, A., Ferraris, F., Vallan, A., Spertino, F., Attivissimo, F., *Uncertainty analysis of degradation parameters estimated in long-term monitoring of photovoltaic plants*, Measurement, volume 55, issue , year 2014, pp. 641 – 649, indexed [ISI Web of Science](#), impact factor 1.526.
- b5) Orndoff, C. Shepard, J., *Public institution fast tracking solar panel array implementation*, ISSST '09. IEEE International Symposium on Sustainable Systems and Technology, 18-20 May 2009, Phoenix, AZ, Page(s): 1 – 4, indexed SCOPUS, IEEEExplore.
- b6) Iuru Srinivasa Ramana, Lakshmanan Chidambaram, Govindarajulu Kamaraj, Ramalingam Velraj *Evaluation of renewable energy options for cooling applications*, International Journal of Energy Sector Management, Vol. 6 Iss: 1, pp.65 – 74, 2012, indexed SCOPUS.
- 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, IEEEExplore.
- b8) Orndoff, C. *Solar panel renewable energy inductive learning*, IEEE International Symposium on, Sustainable Systems and Technology (ISSST), 17-19 May 2010, Arlington, VA, Page(s): 1 – 4, Indexed SCOPUS, IEEEExplore.

c) - Cited article: 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.

- Articles which cite:

- 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
- c7) *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

c11) *Reconfigurable electrical interconnection strategies for photovoltaic arrays: A review*, Damiano La Manna, Vincenzo Li Vigni, Eleonora Riva Sanseverino, Vincenzo Di Dio, Pietro Romano, *Renewable and Sustainable Energy Reviews*, Volume 33, May 2014, Pages 412–426, indexed [ISI Web of Science](#), impact factor 5.510

c12) *Analysis of spatial fixed PV arrays configurations to maximize energy harvesting in BIPV applications*, Celik, B., Karatepe, E., Silvestre, S., Gokmen, N., Chouder, A. *Renewable Energy*, volume 75, issue , year 2015, pp. 534 – 540, [ISI Web of Science](#), impact factor 5.510

c13) *Prediction of current and the maximum power of solar cell via voltage generated by light and irradiance using analytically invertible function*, Liu Changshi, *Solar Energy*, Volume 113, March 2015, Pages 340– 346, ISSN: 0038-092X, indexed [ISI Web of Science](#), Impact Factor: 3.541

c14) *A review of maximum power point tracking techniques for use in partially shaded conditions*, Yi-Hua Liu, Jing-Hsiao Chen, Jia-Wei Huang, *Renewable and Sustainable Energy Reviews*, Volume 41, January 2015, Pages 436– 453, ISSN: 1364-0321, indexed [ISI Web of Science](#), impact factor: 5.510

c15) *A Circuit for Energy Harvesting Using On-Chip Solar Cells*, Ghosh, S.; Hsuan-Tsung Wang ; Leon-Salas, W.D., *IEEE Transactions on Power Electronics*, sept. 2014, Volume: 29, Issue: 9, Page(s): 4658 – 4671, ISSN: 0885-8993, indexed [ISI Web of Science](#), impact factor 5.726

c16) *An accurate method for the PV model identification based on a genetic algorithm and the interior-point method*, Arash M. Dizqah, Alireza Maheri, Krishna Busawon, *Renewable Energy*, volume 72, Dec. 2014, indexată ISI, pp. 212-222, ISSN: 0960-1481, indexed [ISI Web of Science](#) factor impact 3,361

c17) *New procedure and field-tests to assess photovoltaic module performance*, M. Paulescu, V. Badescu, C. Dughir, *Energy*, Volume 70, 1 June 2014, Pages 49– 57, ISSN 0360-5442, indexed [ISI Web of Science](#) , factor impact 4,159

c18) *Energy Harvesting Using Substrate Photodiodes*, Pour, G.M. Benyhesan, M.K. ; Leon-Salas, W.D., *IEEE Transactions on Circuits and Systems II: Express Briefs*, Volume:61, Issue: 7, Page(s):501 – 505, July 2014, ISSN:1549-7747, indexed [ISI Web of Science](#), factor impact 1,187.

C19) *Two-Stage Chaos Optimization Search Application in Maximum Power Point Tracking of PV Array*, Lihua Wang, Xueye Wei, Tianlong Zhu, and Junhong Zhang, *Mathematical Problems in Engineering*, Volume 2014, Article ID 464835, 11 pages <http://dx.doi.org/10.1155/2014/464835>, indexed [ISI Web of Science](#), impact factor 1.082

c20) *A novel MPPT (maximum power point tracking) algorithm based on a modified genetic algorithm specialized on tracking the global maximum power point in photovoltaic systems affected by partial shading*, S. Daraban, D. Petreus, Cristina Morel, *Energy*, Volume 74, 1 September 2014, Pages 374– 388, indexed [ISI Web of Science](#), factor impact 4,159

c21) *Faults detection in a photovoltaic generator by using matlab simulink and the chipKIT Max32 board*, Khener, R., Mostefai, Benahdoug, S., Maddad, M., *International Journal of Photoenergy*, 2015, indexed [ISI Web of Science](#), factor impact 2,663

c22) *Renewable energy emulation concepts for microgrids*, Prieto-Araujo, E., Olivella-Rosell, P., Cheah-Mañe, M., Villafafila-Robles, R., Gomis-Bellmunt, O., *Renewable & Sustainable Energy Reviews* volume 50, issue , year 2015, pp. 325 – 345, indexed [ISI Web of Science](#), factor impact 5.510

c23) *Analysis of current and voltages indicators in grid connected PV (photovoltaic) systems working in faulty and partial shading conditions*, Silvestre, S., Kichou, S., Chouder, A., Nofuentes, G., Karatepe, E., *Energy*, 2015, indexed [ISI Web of Science](#), factor impact 4,159.

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