

GEORGIOS C. CHRISTOFORIDIS

DR. ELECTRICAL & COMPUTER ENGINEER

CURRICULUM VITAE

Kozani, March 2016

Georgios C. Christoforidis

Dipl. Electrical Engineer
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SHORT CURRICULUM VITAE

Dr. Georgios C. Christoforidis was born in Thessaloniki in 1974.

He graduated from the Electrical Engineering Department of the Aristotle University of Thessaloniki (AUTH), having followed the Electrical Energy Sector, in 1998. During 1998-1999 he was a post-graduate student in the Electrical and Electronic Engineering Department of the University of Birmingham UK, from where he was awarded with the Master of Science (M.Sc.) degree in Power Electronics & Drives, with Distinction. Since March 2002, he was a fellow of the Greek General Secretariat for Research & Technology and of the Public Power Corporation under the program PENED 2001, while being a PhD Candidate in the Electrical and Computer Engineering Department (ECED) of the AUTH. In 2004 he received the PhD from the ECED of the Polytechnic School of AUTH.

Between 2005-2010 he was an adjunct lecturer in several higher education institutions in Greece, teaching a variety of subjects, such as Generation-Transmission-Distribution of Electrical Energy, Power Electronics, Electrical Machines, Electrical Drive Systems, Energy Technology etc.

In June 2010 he came into office as an Assistant Professor in the Electrical Engineering Department of the TEIWM. At December 2013 I was elected as permanent Assistant Professor in the TEIWM and in April 2014 as Associate Professor in the field of "Electrical Power Systems", where he serves until today.

He currently teaches the courses of Generation-Transmission-Distribution of Electrical Energy, Power Electronics, Electrical Drive Systems in the undergraduate program and the courses Power Electronics & Electrical Drives and Energy Systems in post-graduate programs.

He has participated or coordinated in more than 10 international and national research projects, while he has worked as professional engineers for 10 years mainly in the renewable energy sector.

His research interests include: Power systems, distribution energy systems, renewable energy, energy policy, electromagnetic compatibility, integration of renewable energy systems in the built environment and smart grids.

He has published 13 papers in international peer-reviewed scientific journal, 1 book chapter and 34 papers in international conference proceedings. His work has been acknowledged by more than 150 hetero-citations, corresponding to an *h-index*=8 and *i-index*=6.

TEACHING ACTIVITY

1 AS ASSISTANT/ASSOCIATE PROFESSOR IN TEI OF WESTERN MACEDONIA

- 2010-Today: **Power Electronics** (Theory + Laboratory)
- 2010-2013: **Electropneumatic-Electrohydraulic Systems** (Theory + Laboratory)
- 2012-Today: **Electric Drive Systems** (Theory + Laboratory)
- 2010-2013: **Electrical Machines I and II** (Academic Responsible)
- 2013-Today: **Electric Power Generation, Transmission and Distribution I and II** (Theory + Laboratory)
- 2014-2015: **Economotechnical Analysis**

2. IN POST-GRADUATE PROGRAMS

- 2006-2008: Teaching of the course “**Hydraulic & Pneumatic Actuators**”, in the post-graduate program titled “Mechatronics” in the TEI Western Macedonia in co-operation with University of Catalonia (3 years).
- 2013-Today: Teaching and academic responsible of course «**Power Electronics and Drives**», in the post-graduate program titled “Mechatronics” of the Electrical Engineering Department of the TEIWM.
- 2015-Today: Co-teaching of the course “Energy Systems” in the post-graduate program titled “**Renewable energy sources and Energy management in buildings**” of the Electrical Engineering Department of the TEIWM.

3. AS ADJUNCT LECTURER IN HIGHER EDUCATION INSTITUTIONS

- 2005-2010: Lecturer of course Power Electronics (Theory + Laboratory) in TEI Western Macedonia (10 semesters).
- 2005-2008: Lecturer of courses Generation, Transmission, Distribution of Electrical Energy II (Theory) in TEI of Larisa (6 semesters).
- 2005-2006: Lecturer of course Electrotechnics I (Theory) in TEI of Larisa (2 semesters).
- 2007: Teaching of course Energy Technology I in AUTH, as adjunct lecturer.
- 2007-2010: Lecturer of course ElectroHydraulic-ElectroPneumatic Systems in TEI of Western Macedonia (6 semesters).
- 2007-2010: Lecturer of course Electrotechnics I (Laboratory) in Automation Eng. Dep. Of TEI of Thessaloniki (5 semesters), of course Electrical Machines (Laboratory) (2 semesters), of course Power Electronics (Laboratory) (1 semester) and of course Motor Control (Laboratory) (2 semesters).

4. SUPERVISION OF FINAL YEAR DISSERTATION AND DIPLOMA THESIS

Supervision of more than **40** dissertation theses and **4** post-graduate theses in TEIWM.

RESEARCH ACTIVITY

1. RESEARCH INTERESTS

- Power systems
- Energy conversion systems
- Energy saving, energy efficiency
- Applications of artificial intelligence methods to power systems
- Distributed power generation with renewable energy sources
- Power systems analysis in steady and transient operation
- Simulation of transmission and distribution electrical energy systems
- Energy policy

2. RESEARCH AND EXTERNALLY FUNDED PROJECTS

1. Scientific Coordinator in the project titled «*Implementation of a simulation software for PV net-metering for professional usage*», “RhonAlpEnergie – Environnement (RAEE)”, May-Dec 2015.
2. Scientific Coordinator in the Project titled «*Study of Electrical Interferences of a 5MWp PV park to a gas pipeline* » Aerino S.A. company. February 2013 – December 2013.
3. Participation in the project titled “*MEnS - Meeting of Energy Professional Skills*” aiming at the post-graduate upskilling of building managers and engineers towards NZEB transformation of the building stock (March 2015-Today)
4. Participation in the project titled “*PV-NET - Promotion of PV energy through net metering optimization*”, targeting the optimization of Photovoltaic net-metering policies in the Mediterranean region (June 2013 – Today).
5. Participation in the project titled “*Countdown to Low Carbon Homes*”, aiming to record the profiles of electrical energy consumers that will help in increasing the number of homes with nearly-zero emissions (July 2013 – Today).
6. Participation in the Intelligent Energy Europe project titled “*E-SEAP - European Sustainable Energy Award for Prisons*” targeting sustainable development of prisons and improvement of their energy performance (May 2011 – May 2014).
7. Participation in the Intelligent Energy Europe project titled “*E-BITS - Energy BITS – Young people and media for a low energy footprint*” targeting the active involvement of young people using audio-visual means for energy saving. (May 2011 – October 2013).
8. Participation in the Intelligent Energy Europe project titled “*Use Efficiency – Universities and students for energy efficiency*” targeting the training of engineering students in energy saving and performance of buildings and installations. (June 2009-February 2012).
9. Participation in the Intelligent Energy Europe project titled “*GP-WIND - Good Practice in reconciling Wind energy with environmental objectives and community engagement*” targeting barriers preventing the development of on and off-shore wind parks in Europe (May 2010-December 2012).
10. Participation in the Project titled “*MORE CARE: More Advanced Control Device for Power Systems with Large Scale Integration of Renewable Energy Sources*”. Development of software using artificial intelligence techniques for load forecasting. (March 2000-February 2001).
11. Principal investigator and fellow in the project of General Secretary of Research and Technology titled “*Effects of Transmission Lines to nearby conductors*” (Co-funding with Public Power Corporation) (March 2002-March 2005).
12. Participation in the Project titled “*PowerMan Switch: An Innovative Energy Consumption Management System Based On A Punctual Electrical Control Device*”. Contract with municipal enterprise “Anaptixiaki Kampou N. Pellas S.A.” (June 2002 – June 2005).

SCIENTIFIC PUBLICATIONS

1. DOCTORAL THESIS

"Contribution to the Calculation of Inductive Interference of Electric Power Lines to Underground Metallic Conductors", Aristotle University of Thessaloniki, Thessaloniki 2004.

2. PUBLICATIONS IN INTERNATIONAL SCIENTIFIC JOURNALS

2.1. G. C. Christoforidis, D. P. Labridis, P. S. Dokopoulos, "Inductive Interference Calculation On Imperfect Coated Pipelines Due To Nearby Faulted Parallel Transmission Lines". *Electric Power Systems Research*, Volume 66, Issue 2, August 2003, Pages 139-148. **(19 hetero-citations)**

2.2. G. C. Christoforidis, D. P. Labridis, P. S. Dokopoulos, "A Hybrid Method for Calculating the Inductive Interference Caused By Faulted Power Lines to Nearby Pipelines", *IEEE Transactions On Power Delivery*, Vol. 20, No. 2, April 2005, pp. 1465-1473. **(33 hetero-citations)**

2.3. G. C. Christoforidis, D. P. Labridis, P. S. Dokopoulos, "Inductive Interference on Pipelines Buried in Multilayer Soil, due to Magnetic Field from Nearby Faulted Power Lines", *IEEE Transactions On Electromagnetic Compatibility (EMC)*, Vol.47, No.2, May 2005, pp. 254-262. **(25 hetero-citations)**

2.4. D. A. Tsiमितros, G. C. Christoforidis, G. K. Papagiannis, D. P. Labridis, P. S. Dokopoulos, "Earth Conduction Effects in Systems of Overhead and Underground Conductors in Multi-Layered Soils", *IEE Proceedings in Generation, Transmission and Distribution*, Vol.153, No.3, May 2006. **(10 hetero-citations)**

2.5. D. D. Micu, R. Munteanu jr., G. C. Christoforidis, B. Manea, A. Ceclan, "Original Approaches for Solving Electromagnetic Interference Problems", *Advances in Electrical and Computer Engineering*, Vol. 9, No. 2, 2009, pp. 82-89. **(5 hetero-citations)**

2.6. D. D. Micu, L. Czumbil, G. C. Christoforidis, A. Ceclan, "Layer Recurrent Neural Network Solution for an Electromagnetic Interference Problem", *IEEE Transactions on Magnetics*, Vol.47, Iss.5, May 2011, pp. 1410-1413. **(10 hetero-citations)**

2.7. D. D. Micu, L. Czumbil, G. C. Christoforidis, A. Ceclan, D. Stet, "Evaluation of induced AC voltages in underground metallic pipelines", *COMPEL: The International Journal for Computation and Mathematics in Electrical and Electronic Engineering*, Vol. 31, Iss. 4, 2012, pp. 1133 - 1143. **(7 hetero-citations)**

2.8. D. D. Micu, L. Czumbil, G. C. Christoforidis, E. Simion, "Neural networks applied in electromagnetic interference problems", *Revue Roumaine des Sciences Techniques Serie Electrotechnique et Energetique*, Vol. 57, Iss. 2, 2012, pp. 162-171. **(1 hetero-citation)**

2.9. D. D. Micu, G. C. Christoforidis, L. Czumbil, "AC interference on pipelines due to double circuit power lines: A detailed study", *Electric Power Systems Research*, Vol. 103, Oct. 2013, pp. 1-8. **(7 hetero-citations)**

2.10. G. C. Christoforidis, K. Ch. Chatzisavvas, S. Lazarou, C. Parisses, "Covenant of Mayors initiative - Public perception issues and barriers in Greece", *Energy Policy*, Vol. 60, Sept. 2013, pp. 643-655. **(9 hetero-citations)**

2.11. Ioannis P. Panapakidis, Theofilos A. Papadopoulos, Georgios C. Christoforidis, Grigoris K. Papagiannis, "Pattern Recognition Algorithms for Electricity Load Curve Analysis of Buildings", *Energy and Buildings*, Vol. 73, Jan. 2014, pp. 137-145. **(9 hetero-citations)**

2.12. P. Virtic, P. Mrak, G. Papagiannis, G.C. Christoforidis, I. Koumparou, M. Hadjipanayi, George E. Georghiou, "Project PV-NET: Promotion of photovoltaic energy through net metering optimization", *Przełąd Elektrotechniczny* 91 (1), pp. 208-211, 2015.

2.13. Theofilos A. Papadopoulos, Georgios C. Christoforidis, Grigoris K. Papagiannis, "Use Efficiency: An Innovative Educational Program for Energy Efficiency in Buildings", *International Journal of Sustainable Energy*, 2015, DOI: 10.1080/14786451.2015.1119833.

3. IN PROCEEDINGS OF INTERNATIONAL CONFERENCES

- 3.1.** G. C. Christoforidis, P. S. Dokopoulos, K. E. Psannis, *"Induced Voltages and Currents on Gas Pipelines with Imperfect Coatings Due to Faults in a Nearby Transmission Line"*. in the 2001 IEEE Porto PowerTech Conference, pp. 401-406. **(10 hetero-citations)**
- 3.2.** G. C. Christoforidis, D. P. Labridis and P. S. Dokopoulos, *"Inductive Interference of Power Lines on Buried Irrigation Pipelines"*, in the 2003 IEEE Bologna PowerTech Conference Proceedings, pp. 196-202. **(2 hetero-citations)**
- 3.3.** G. C. Christoforidis, D. P. Labridis, P. S. Dokopoulos, N. Kioupis, G. P. Christoforidis, *"Measurements And Computations Of Inductive Interference Caused By Three Power Transmission Lines On A Gas Pipeline In A Complex Rights-Of-Way"*, in the EuroPES 2004 IASTED Conference, Rhodes, Greece.
- 3.4.** G. C. Christoforidis, D. P. Labridis, P. S. Dokopoulos, N. Kioupis, *"AC Interference On A Gas Pipeline Caused By Nearby Power Lines In A Complex Right-Of-Way. Comparison between Measurements and Calculations"*, in the 2004 CEOCOR Meeting, Dresden, Germany. **(2 hetero-citations)**
- 3.5.** D. A. Tsiamitros, G. C. Christoforidis, G. K. Papagiannis, D. P. Labridis, P. S. Dokopoulos, *"A Novel Method For The Calculation Of Self And Mutual Impedances Of Overhead Conductors And Pipelines Buried In Two-Layer Soils."*, in the 2004 MedPower Conference, Cyprus.
- 3.6.** G. C. Christoforidis, G. E. Mantzaras, *"Estimation of Electrical Energy Production from Anticipated PV Plants in Greece, According to the Geographical Distribution of RAE"*, in the EnerTech 2007 Conference, Athens, Greece. **(1 hetero-citation)**
- 3.7.** Micu D.D., Czumbil L., Ceclan A., Darabant L., Stet D., Christoforidis G., *"Electromagnetic Interference between HV Power Lines and Metallic Pipelines Evaluated with Neural Network Technique"*, EPQU 09', 10th International Conference Electrical Power Quality and Utilisation, Sept. 2009, Lodz, Poland.
- 3.8.** D. Micu, C. Levente, A. Ceclan, G.C. Christoforidis, *"Monte Carlo - Neural Network method for solving Electromagnetic Interference Problems"*, at the 2010 UPEC Conference, Cardiff, UK, 31/08-03/09.
- 3.9.** M. Hörner, G.C. Christoforidis, G.K. Papagiannis, T. Papadopoulos, *"USE Efficiency: A first Level Audit Analysis of Selected University Buildings from 9 EU Countries"*, at the 3rd International Scientific Conference on "Energy & Climate Change", Athens October 2010.
- 3.10.** T. A. Papadopoulos, E. Topriska, G. K. Papagiannis, G. C. Christoforidis, *"Electrical Energy Consumption Analysis in Tertiary Buildings"*, 3rd International Conference on Renewable Energy Sources & Energy Efficiency, Nicosia, Cyprus, May 19-20, 2011.
- 3.11.** G. C. Christoforidis, G. K. Papagiannis, T. A. Papadopoulos, S. McKay, *"Identifying Barriers preventing the Widespread of Wind Power in Europe - The GP-WIND Project"*, 3rd International Conference on Renewable Energy Sources & Energy Efficiency, Nicosia, Cyprus, May 19-20, 2011.
- 3.12.** Georgios C. Christoforidis, Stavros Lazarou, Costantinos Parisses, Marios Bakouris, *"The Covenant of Mayors initiative: Status in Europe and barriers towards realizing its full potential in Greece"*, 8th International Conference on the European Energy Market (EEM11), 25-27 May 2011, Zagreb, Croatia.
- 3.13.** Levente Czumbil, Georgios C. Christoforidis, Dan D. Micu, Andrei Ceclan, Denisa Stet, *"EMI Software for Evaluation of Induced A.C. Voltage in Underground Metallic Pipelines"*, 46th International Universities Power Engineering Conference, UPEC 2011, Cardiff, Wales, IEEEExplore, 5 -8 September 2011.
- 3.14.** Georgios C. Christoforidis, K.C. Chatzisavvas, T. Papadopoulos, G. Papagiannis, *"Identifying non-technological barriers to Wind power: Local communities"*, 9th International Conference on the European Energy Market (EEM12), 10-12 May 2012, Florence, Italy.
- 3.15.** Dan D. Micu, Levente Czumbil, Georgios C. Christoforidis, Papadopoulos Theofilos, *"Semi-infinite integral implementation in the development steps of Interstud electromagnetic interference software"*, 47th International Universities Power Engineering Conference, UPEC 2012, 4 -8 Sept. 2012.
- 3.16.** Theofilos A. Papadopoulos, Georgios C. Christoforidis, Konstantinos Ch. Chatzisavvas and Grigoris K. Papagiannis, *"Harmonic Level Measurements and Analysis at Higher Education Buildings"*, 8th

Mediterranean Conference on Power Generation, Transmission, Distribution and Energy Conversion, MEDPOWER 2012, Cagliari, Italy, Oct. 2012.

3.17 Dan D. Micu, Georgios C. Christoforidis, Papadopoulos Theofilos, Levente Czumbil, Denisa Stet, *“Accurate Iterative Algorithm to Evaluate Induced Current Densities in Electromagnetic Interference Problems”*, CEFC 2012- 15th International Conference on Electromagnetic Field Computation, Oita Japan, Nov. 2012. **(1 hetero-citation)**

3.18 Ioannis P. Panapakidis, Theofilos A. Papadopoulos, Georgios C. Christoforidis, Grigoris K. Papagiannis, *“Analysis of the Electricity Demand Patterns of a Building in a University Campus”*, 12th International Conference on Environment and Electrical Engineering, Wroclaw Poland, May 2013. **(2 hetero-citations)**

3.19 Ioannis P. Panapakidis, Georgios C. Christoforidis, Grigoris K. Papagiannis, *“Modifications of the Clustering Validity Indicators for the Assessment of the Load Profiling Procedure”*, 4th International Conference on Power Engineering, Energy and Electrical Drives, Istanbul Turkey, May 2013. **(1 hetero-citation)**

3.20 Aggelos Bouhouras, Theofilos Papadopoulos, Georgios C. Christoforidis, Grigoris Papagiannis, Dimitris Labridis, *“Loss Reduction via Network Reconfigurations in Distribution Networks with Photovoltaic Units Installed”*, 10th International Conference on the European Energy Market (EEM13), 25-28 May 2013, Stockholm, Sweden. **(2 hetero-citations)**

3.21 Aggelos Bouhouras, Theofilos Papadopoulos, Georgios C. Christoforidis, Grigoris Papagiannis, Dimitris Labridis, *“Systematic Sensitivity Analysis Regarding the Influence of Distributed Generation Units Allocation to the Optimal Reconfiguration for Loss Reduction”*, 48th International Universities Power Engineering Conference, (UPEC 2013), 2 -5 Sept. 2013, Dublin, Ireland.

3.22 Georgios C. Christoforidis, Theofilos Papadopoulos, Constantinos Parisses, Dan Micu, Levente Czumbil, *“Induced Voltages and Currents on Metallic Pipelines from Medium-Voltage Cables Connecting Photovoltaic Parks”*, 48th International Universities Power Engineering Conference, (UPEC 2013), 2 -5 Sept. 2013, Dublin, Ireland.

3.23 Levente Czumbil, Dan Micu, Denisa Stet, Georgios C. Christoforidis, *“HVPL Conductor Sag Influence on Induced Voltage Evaluation in Nearby Metallic Structures”*, 48th International Universities Power Engineering Conference, (UPEC 2013), 2 -5 Sept. 2013, Dublin, Ireland.

3.24 Georgios C. Christoforidis, Ioannis P. Panapakidis, Theofilos Papadopoulos, Grigoris K. Papagiannis, *“PV Power Clustering as a Means to Evaluate Energy Storage Options”*, 2nd International Conference on Renewable Energy Research and Applications (ICRERA 2013), Madrid Spain, October 2013.

3.25 Georgios C. Christoforidis, Andreas Chrysochos, Grigoris K. Papagiannis, Maria Hatzipanayi, George E. Georghiou, *“Promoting PV energy through net metering optimization: The PV-NET project”*, 2nd International Conference on Renewable Energy Research and Applications (ICRERA 2013), Madrid Spain, October 2013. **(3 hetero-citations)**

3.26 Georgios C. Christoforidis, Theofilos Papadopoulos, Constantinos Parisses, Georgios Mantzaras, *“Photovoltaic Power Plants as a Source of Electromagnetic Interference to Metallic Agricultural Pipelines”*, 6th International Conference on Information and Communication Technologies in Agriculture, Food and Environment (HAICTA 2013), Corfu Greece, 19-22 Sept. 2013.

3.27 Georgios C Christoforidis, Grigoris K Papagiannis, Mike Brain, Tomislav Puksec, *“Establishing an assessment framework for energy sustainability in prisons: The E-SEAP project”*, 14th International Conference on Environment and Electrical Engineering (EEEIC 2014), Krakow Poland, May 2014.

3.28 Aggelos Bouhouras, Georgios C Christoforidis, Constantinos Parisses, Dimitris P Labridis, *“Reducing network congestion in distribution networks with high DG penetration via network reconfiguration”*, 11th International Conference on the European Energy Market (EEM14), May 2014, Krakow, Poland.

3.29 Ioannis P. Panapakidis, Georgios C. Christoforidis, Grigoris K. Papagiannis, *“Bus Load Forecasting via a Combination of Machine Learning Algorithms”*, 49th International Universities Power Engineering Conference, (UPEC 2014), Sept. 2014, Cluj-Napoca, Romania.

3.30 Stergios P. Dimakis, Georgios C. Christoforidis, Grigoris K. Papagiannis, “Control strategy to alleviate PV power output fluctuations through a superconducting coil”, 49th International Universities Power Engineering Conference, (UPEC 2014), Sept. 2014, Cluj-Napoca, Romania.

3.31 Theofilos Papadopoulos, Georgios C. Christoforidis, Dan D. Micu, Levente Czumbil, “Medium-voltage cable inductive coupling to metallic pipelines: A comprehensive study”, 49th International Universities Power Engineering Conference, (UPEC 2014), Sept. 2014, Cluj-Napoca, Romania.

3.32 Georgios C. Christoforidis, Ioannis P. Panapakidis, Theofilos A. Papadopoulos, Andreas I. Chrysochos, Grigoris K. Papagiannis, Ioannis Koumparou and George E. Georghiou, “Assessing policies for photovoltaic net-metering in Greece”, 9th Mediterranean Conference on Power Generation, Transmission Distribution and Energy Conversion (MEDPOWER 2014), Nov. 2014, Athens, Greece.

3.33 G. C. Christoforidis, I. P. Panapakidis, T. A. Papadopoulos, G. K. Papagiannis, I. Koumparou, M. Hatzipanayi and G. E. Georghiou, “Investigating Net-Metering Variant Policies: The Case of Greece”, Proceedings of the 2015 IEEE International Conference on Environment and Electrical Engineering, EEEIC 2015, June 2015, Rome, Italy.

3.34 G. C. Christoforidis, I. P. Panapakidis and G. K. Papagiannis, “Hybrid Computational Intelligence Model for Short-Term Bus Load Forecasting”, Proceedings of the 2015 IEEE International Conference on Environment and Electrical Engineering, EEEIC 2015, June 2015, Rome, Italy.

4 PRESENTATIONS IN NATIONAL SCIENTIFIC CONFERENCES

4.1. G. K. Papagiannis, G. C. Christoforidis “Universities and Students for Energy Efficiency –USE EFFICIENCY”, in the 3rd Panhellenic Conference of Environmental Council of AUTH, 16-18 October 2009 (Poster).

4.2. G. K. Papagiannis, G. C. Christoforidis “Universities and Students for Energy Efficiency –USE EFFICIENCY”, in the 4th Panhellenic Symposium «The sustainable school of present and future” Helliniki Eteria, 22-24 June 2010 (Poster and paper).

5 BOOK CHAPTERS

5.1 Dan D. Micu, Georgios C. Christoforidis, Levente Czumbil (2012), “Artificial Intelligence Techniques Applied to Electromagnetic Interference Problems Between Power Lines and Metal Pipelines”, Recurrent Neural Networks and Soft Computing, Dr. Mahmou El-Hefnaw (Ed.), ISBN: 978-953-51-0409-4, In-Tech.

6. M.Sc. THESIS

“A New Power Factor Correction Topology Utilizing a Boost and a Resonant Converter”, University of Birmingham, Birmingham UK, 1999.

7. DIPLOMA THESIS

“Load Flow with Object Oriented Programming”, Aristotle University of Thessaloniki, Thessaloniki, 1998.

8. LECTURE NOTES

Lecture notes for the course Power Electronics of the Electrical Engineering Department of the Technological Education Institution of Western Macedonia (Jan. 2007).

ADMINISTRATIVE ACTIVITY

- Vice President of the Electrical Engineering Department of the TEIWM since 2013.
- Departmental coordinator for the Erasmus program for the Electrical Engineering department (2011-Today) (Decision of the departmental council)
- Member of the steering committee of the Post Graduate Program in «Mechatronics» of the Electrical Engineering Department (2012-Today)
- Member of the steering committee of the Post-Graduate program in “Renewable energy systems and energy management in buildings” of the Electrical Engineering Department (2015-Today)
- Coordinator of the Group B’ of courses of the Electrical Engineering Department (Electrical Machines I and II, Drive Engines, Electric Drive Systems, Power Electronics) (2011-Today) (Decision of the General Assembly of Department)
- Substitute representative of the Electrical Department to the Research Committee of TEI Western Macedonia (2011-Present) (Decision Gen. Assembly Department)
- Member of the tripartite committee for Department’s curricula (2011-Today) (Decisions of Gen. Assembly Department)
- Departmental responsible for the project “Open Digital Courses » (2012-Today) (Decision Gen. Assembly Department)
- Participation in various committees of the Electrical Engineering Department (examinations for prospective new students, acquiring of new material and consumables etc).

OTHER INFORMATION

1. SCIENTIFIC ASSOCIATIONS

- Technical Chamber of Greece (Member 1998).
- IEEE (Student Member 2000, Member 2005).
- CIGRE (Member 2003).
- Union of Computer Science Professionals in Greece (Member 2003).

2. CHAIR IN CONFERENCES

- Chairman at the 8th International Conference on the European Energy Market (EEM11), 25-27 May 2011, Zagreb, Croatia.
- Chairman at the 2nd International Conference on Renewable Energy Research and Applications (ICRERA 2013), Madrid Spain, October 2013.
- Chairman at the 1st International Conference for Building Energy Efficiency and Renewable Energy Sources (BEE-RES), Kozani, June 2014.

3. REVIEWER IN INTERNATIONAL JOURNALS AND CONFERENCES

- IEEE Transactions on Power Delivery (IEEE Power & Energy Society).
- IEEE Transactions on Electromagnetic Compatibility (IEEE Electromagnetic Compatibility Society).
- IEEE Transactions in Industry Applications (Industry Applications Society)
- Energy, International Journal (Elsevier).
- Electric Power Systems Research (Elsevier).

- Energy Policy (Elsevier).
- Energy Conversion and Management (Elsevier).
- Energy and Buildings (Elsevier)
- Sustainable Cities and Society (Elsevier)
- Urban Climate (Elsevier)
- International Journal of Electrical Power and Energy Systems (Elsevier)
- IET Proceedings - Generation, Transmission & Distribution (IET)
- International Transactions on Electrical Energy Systems (Wiley)
- COMPEL: The International Journal for Computation and Mathematics in Electrical and Electronic Engineering (Emerald Engineering).
- Journal of Renewable and Sustainable Energy, AIP.
- European Journal of Engineering Education (Taylor & Francis).
- Universities Power Engineering Conference (UPEC).
- International Conference on Environment and Electrical Engineering (EEEIC).

4. LECTURES - INVITATIONS

- Invitation from the University of Cyprus under the Erasmus+ programs for teaching, February 2016. Topics: Integration of Renewable Energy Systems in the built environment, Methodologies to assess net-metering policies, optimal integration of PV's in buildings towards NZEB transformation.
- Lecture at the workshop «PV net-metering– The case of Greece, outlook and optimization” titled «Optimizing PV net-metering and assessing the current framework», Kozani, June 2015.
- Lecture at the workshop «Optimal net-metering – Enhancing the penetration of PV's in the grid” titled «Optimizing PV net-metering and assessing the current framework», Thessaloniki, May 2015.
- Lecture at the workshop «Consuming and Producing PV energy: prospective economic models» titled «Net-Metering Tool and Case Studies», Lyon, France, March 2015.
- Plenary speech in the international Conference BEE-RES, Kozani, June 2014, titled “The Levelized Cost of Energy from PV's in Greece and Mediterranean: The PV-NET project”.
- Invited speech at the workshop “Promotion of the use of PV systems through optimum net-metering”, 20 November 2013, Aristotle University of Thessaloniki. Title: “Levelized cost of energy production from PV's in Greece and the Mediterranean”.
- Invitation from the Technical University of Cluj-Napoca under the Erasmus program for teaching, December 2010. Topics: «Applied numerical methods in electrical engineering», «Application of artificial intelligence in electromagnetic interference problems», «Energy efficiency. European directives and targets»
- Invitation from the Technical University of Cluj-Napoca under the Erasmus program for teaching, June 2012. Topics: «Electromagnetic compatibility in power systems», «Interference of power lines to metallic conductors» «Power Quality in Power Systems»
- Invitation and lecture in the “Use Efficiency” Summer School (London, July 2012). Topic: “Electrical Energy Consumption in Buildings and Energy Savings”
- Invitation in the 1st “Use Efficiency” Summer School (Valencia, August 2011). Supervision and mentoring of groups of students in preparing energy efficiency projects for buildings.
- Lecture in the Regional Workshop on "Best Practices for the Harmonisation of the benefits of wind energy with environmental and social objectives" (Patras, 2011). Topic: «Local Communities».
- Lecture in workshop of TEI Western Macedonia with title “Building energy certificates and audits” (December 2010).

5. OTHER REVIEWING

- Ministry of Education, research program evaluator, “Aristeia” program, 2015
- General Secretariat of Research Technology, research program evaluator, “Synergasia” program, 2015
- Bulgarian Science Fund, research proposals evaluator, 2014
- Croatian Science Foundation (CSF), reviewer in research proposals, 2011

6. FOREIGN LANGUAGES

- Fluency in English.