

CURRICULUM VITAE

THEOFILOS A. PAPADOPOULOS

Lecturer

Department of Electrical &

Computer Engineering

Democritus University of Thrace

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1. Short CV

1.1. Personal data

Name	Theofilos A. Papadopoulos
Date and Place of Birth	10/03/1980 Thessaloniki
Current Position	Lecturer in the Department of Electrical and Computer Engineering of the Democritus University of Thrace (DECE-DUTH), in the area of expertise: «Power Systems».
Work Phone Number	+30 2541071529
Personal Phone Numbers	+30 2541076201, +30 6942596031
E-mail	thpapad@ee.duth.gr
Personal Webpage	http://utopia.duth.gr/thpapad
Family Status	Unmarried
National Service	November 2008 – November 2009 (Research & Informatics)

1.2. Studies

2010 – 2011	Certificate in Pedagogical & Educational Proficiency – School of Pedagogical and Technological Education (A.S.PE.T.E.). Grade: 9,1
2003 – 2008	PhD in DECE-AUTH. Grade: Excellent Dissertation Title: «Influence of earth on the wave propagation characteristics of power transmission lines» Supervisor: Prof. D. Labridis
1998 – 2003	Diploma in Electrical and Computer Engineering, DECE-AUTH. Grade: 7,87 Diploma Thesis Title: « <i>A system for the control of electrical loads using Power Line Communications. Measurements in pilot installation. Laboratory experiments</i> » Supervisor: Lecturer G. Papagiannis

2. Teaching Activities

2.1. Teaching

W.S.: Winter Semester, S.S.: Summer Semester, T: Theory, E: Exercises, L: Laboratory

2015 – present S.S.	Lecturer - DECE, DUTH: Power Systems I (T, E & L)
2015 – present W.S.	Lecturer - DECE, DUTH: Electrical Installations (T, E & L)
2014 – present W.S.	Lecturer - DECE, DUTH: Power Systems II (L)
2014 – present W.S.	Lecturer - DECE, DUTH: Structure and Operation of Power Systems (T, E & L)
2011 – 2013 W.S.	Adjunct Lecturer - Dept. Of Electrical Engineering, Technological Education Institute of Western Macedonia: Generation, Transmission and Distribution of Electrical Energy I (T & E)
2011 – 2014 W.S.	Adjunct Lecturer - Dept. Of Electrical Engineering (DEE), Technological Education Institute (TEI) of Western Macedonia: High Voltages - (T, E & L)
2011 – 2014 S.S.	Adjunct Lecturer - Dept. Of Electrical Engineering, Technological Education Institute of Western Macedonia: Electromechanical Applications - (T, E & L)
2012, 2014 S.S.	Laboratory Associate - Dept. Of Electrical Engineering, Technological Education Institute of Western Macedonia: Electrical Drive Systems - (L)
2010 – 2011 W.S.	Adjunct Lecturer - Dept. Of Automation, Alexander Technological Education Institute of Thessaloniki: Electrotechnics I - (L)
2010 – 2011 S.S.	Adjunct Lecturer - Dept. Of Automation, Alexander Technological Education Institute of Thessaloniki: Electrotechnics II - (L)

2.2. Supervision of Diploma Theses

DECE - DUTH	<p>From 2014 until today:</p> <ul style="list-style-type: none"> • Two (2) Diploma Theses have been concluded under my supervision • Eight (8) Diploma Theses are currently running under my supervision
DEE, TEI of Western Macedonia	<p>From 2011 until 2014:</p> <ul style="list-style-type: none"> • Fourteen (14) Diploma Theses have been concluded under my supervision
DECE - AUTH	<p>From 2004 until 2014:</p> <ul style="list-style-type: none"> • I have co-supervised nineteen (19) Diploma Theses

2.3. Other Teaching Experience

<i>Teaching assistant</i>	<i>W.S.: Winter Semester, S.S.: Summer Semester, E: Exercises, L: Laboratory</i>
2005 – 2007 E.E.	Power Systems I – DECE, AUTH (L) Supervisor: Ass. Prof. G. Papagiannis
2004 – 2007 X.E.	Introduction to Electrical Power Technology II – DECE, AUTH (L) Supervisor: Ass. Prof. G. Papagiannis
2004 – 2007 X.E.	Electrotechnics – Dept. of Chemical Engineering, AUTH (E) Supervisor: Ass. Prof. G. Papagiannis
2004 – 2007 E.E.	Introduction to Electrical Power Technology I – DECE, AUTH (E) Supervisor: Ass. Prof. G. Papagiannis

2.4. Textbooks, Course Notes

<i>Course Notes</i>	
1)	Structure and Operation of Power Systems: Laboratory Student's Textbook, 23 pages (in Greek) DECE, DUTH
2)	<i>Laboratory Course Notes in High Voltages</i> , 75 pages (in Greek) DEE, TEI of Western Macedonia
3)	<i>Laboratory Course Notes in Electromechanical Applications</i> , 106 pages (in Greek) DEE, TEI of Western Macedonia

3. Research and scientific work

3.1. Research Interests

	<p>Influence of earth on overhead transmission lines and underground cable installations.</p> <p>Power systems analysis and simulation tools for the computation of electromagnetic transients.</p> <p>Power systems dynamics, stability, modeling</p> <p>Electromagnetic compatibility and transmission line modeling</p> <p>Power Line Communications</p> <p>Electrical energy efficiency and management in buildings</p>
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3.2. Participation in research projects

<i>European Research Projects</i>	
2014	<p>Project: “PV-Net – Promotion of PV energy through net metering optimization”</p> <p><i>Local coordinator:</i> Prof. of TEI of Western Macedonia, K. Parisis.</p> <p><i>Financing:</i> MED Programme.</p> <p><i>Duration:</i> 01/04/2014 – 30/06/2014</p>
2014	<p>Project: “INCREASE – Increasing the penetration of renewable energy sources in the distribution grid by developing control strategies and using ancillary services”</p> <p><i>Local coordinator:</i> Ass. Prof. G. K. Papagiannis</p> <p><i>Financing:</i> FP7 Programme.</p> <p><i>Duration:</i> 01/02/2014 – 28/02/2014</p>
2013	<p>Project: “Countdown to Low Carbon Homes”</p> <p><i>Local coordinator:</i> Ass. Prof. G. K. Papagiannis</p> <p><i>Financing:</i> ERA-Net Eracobuild.</p> <p><i>Duration:</i> 05/06/2013 – 30/11/2013</p>
2012	<p>Project: “E-Bits - Energy bits, Young people and media for a low energy footprint”</p> <p><i>Local coordinator:</i> Ass. Prof. G. K. Papagiannis</p> <p><i>Financing:</i> Intelligent Energy Europe.</p> <p><i>Total duration:</i> 6 months</p>
2011	<p>Project: “E-SEAP European sustainable energy award for prisons”</p> <p><i>Local coordinator:</i> Ass. Prof. G. K. Papagiannis</p> <p><i>Financing:</i> Intelligent Energy Europe.</p> <p><i>Total duration:</i> 15 months</p>

2011	<p>Project: “DERri – Distributed Energy Resources Research Infrastructures“. The DERRI project is an FP7 project with 16 partners. External research organizations have been selected to use the DERRI partners research infrastructures for selected research projects. Power Systems Laboratory of AUTH participated in two (2) research projects, namely <i>MoDERN</i> and <i>more MoDERN</i>.</p> <p><i>Local coordinator:</i> Ass. Prof. G. K. Papagiannis <i>Financing:</i> FP7 Programme. <i>Total duration:</i> 2 months</p>
2010	<p>Project: “GP Wind - Good practice in reconciling onshore and offshore wind with environmental objectives”</p> <p><i>Local coordinator:</i> Ass. Prof. G. K. Papagiannis <i>Financing:</i> Intelligent Energy Europe. <i>Total duration:</i> 14 months</p>
2010	<p>Project: “Use-Efficiency - Universities and Students for Energy Efficiency”</p> <p><i>Local coordinator:</i> Ass. Prof. G. K. Papagiannis <i>Financing:</i> Intelligent Energy Europe. <i>Total duration:</i> 30 months</p>
2004	<p>Project: “PowerMan Switch - An Innovative Energy Consumption Management System Based on a Punctual Electrical Control Device”</p> <p><i>Local coordinator:</i> Prof. P. Dokopoulos <i>Financing:</i> FP5 Programme. <i>Duration:</i> 01/05/2004 - 30/06/2005.</p>

National Research Projects

2015	<p>Project: “Support of the laboratory and research infrastructure – dissemination of research activities in power systems”</p> <p><i>Coordinator:</i> Lecturer, DUTH, T.A. Papadopoulos. <i>Financing:</i> ETAA. <i>Duration:</i> 20/01/2015 – present</p>
2013	<p>Project: “Study of Electrical Interferences of a 5MWp PV park to a gas pipeline”</p> <p><i>Coordinator:</i> Ass. Prof. of TEI of Western Macedonia, G.C. Christoforidis <i>Financing:</i> Private Sector. <i>Duration:</i> 01/02/2013 – 31/12/2013</p>
2012	<p>Project: “Reconfiguration of wind farm internal grids using underground cables, fault analysis and protection coordination”</p> <p><i>Coordinator:</i> Ass. Prof. G. K. Papagiannis <i>Financing:</i> Private Sector. <i>Duration:</i> 30/07/2012 – 30/09/2012</p>

2010	<p>Project: “Transient stability analysis of the combined cycle power plant HERON II”</p> <p><i>Coordinator:</i> Ass. Prof. G. K. Papagiannis</p> <p><i>Financing:</i> Private Sector.</p> <p><i>Duration:</i> 23/06/2010 – 30/09/2010</p>
2010	<p>Project: “Short circuit & transient stability analysis for CCPP KORINTHOS POWER”</p> <p><i>Coordinator:</i> Ass. Prof. G. K. Papagiannis</p> <p><i>Financing:</i> Private Sector.</p> <p><i>Duration:</i> 23/03/2010 – 15/07/2010</p>
2005	<p>Project: “Multimedia Services over the grid- MultiGrid ”</p> <p><i>Coordinator:</i> Prof. F. N. Pavlidou</p> <p><i>Financing:</i> PENED 2003.</p> <p><i>Duration:</i> 01/07/2005 – 30/06/2008</p>
2005	<p>Project: “Restructuring the information topic studies in the Dept. of Electrical & Computer Engineering of AUTH”</p> <p><i>Coordinator:</i> Ass. Prof. P. Mitkas</p> <p><i>Financing:</i> EPEAK II.</p> <p><i>Total duration:</i> 14 months</p>

3.3. Doctoral (PhD) Thesis supervision

<i>PhD Examination Member</i>	<i>Committee</i>
2015	Konstantinos Oureilidis: “Decentralized control methods of microgrids with RES for the improvement of steady-state and transient operation.”, School of Electrical & Computer Engineering, Aristotle University of Thessaloniki (AUTH)
2015	Chrysochos Andreas: “Improved frequency-dependent transient transmission line model”, School of Electrical & Computer Engineering, Aristotle University of Thessaloniki (AUTH)

3.4. Invited Speeches

2012	‘Energy Performance Assessment of University Buildings’, Aristotle University of Thessaloniki, Thessaloniki, Greece, School of electrical and Computer Engineering (1 lecture)
2011	University of Cyprus, Nicosia, CY, School of Electrical & Computer Engineering (1 lecture)
2011	Frederic University of Cyprus, Nicosia, CY, School of Electrical Engineering (1 lecture)
2011	Polytechnic University of Bucharest, Bucharest, RO, School of Electric Power Engineering (1 lecture)

2011	Technical University of Cluj-Napoca, RO, <i>School of Electrical Engineering, School of Automation and Computer Science</i> (1 lecture)
2011	Oradea University, Oradea, RO, School of Electrical & Computer Engineering (1 lecture)

3.5. Visitor in educational and research institutes

2016	<p>Institute: Department of Electrical & Computer Engineering, University of Cyprus, Cyprus, Project: Erasmus mobility programme for academic staff.</p> <p>Scope of the visit: Cooperation with the academic staff, lectures to MSc and PhD students to subjects “Principles of IEC 60909: short circuit calculations”, “ATP/EMTP RV fundamental Principles and Analysis”, “Travelling Wave Theory” (Duration 1 week)</p>
2013	<p>Institute: HafenCity University Hamburg (HCU), Hamburg, Germany Project: Deutscher Akademischer Austausch Dienst (DAAD)</p> <p>Scope of the visit: student proposals for the energy performance improvement of the AUTH campus in the frame of the project of M.Sc. REAP Resource Efficiency in Architecture and Planning of HafenCity University Hamburg (HCU) (Duration 1 week)</p>
2013	<p>Institute: Department of Electronic & Electrical Engineering, Institute for Energy & Environment, University of Strathclyde, Scotland Project: More MoDERn in the frame of the Distributed Energy Resources Research Infrastructure (DERri).</p> <p>Scope of the visit: Performing measurements and simulations in the Microgrid Laboratory of the university of Strathclyde, and writing of papers (Duration 1 month)</p>
2012	<p>Institute: Department of Electronic & Electrical Engineering, Institute for Energy & Environment, University of Strathclyde, Scotland Project: MoDERn in the frame of the Distributed Energy Resources Research Infrastructure (DERri).</p> <p>Scope of the visit: Performing measurements and simulations in the Microgrid Laboratory of the University of Strathclyde, and writing of papers (Duration 1 month)</p>
2012	<p>Institute: Technical University of Cluj-Napoca, Romania, Project: Erasmus mobility programme for academic staff.</p> <p>Scope of the visit: Cooperation with the academic staff, writing of papers, lectures to MSc and PhD students with subject “Calculation of transient phenomena and short circuits in Power Systems” (Duration 1 week)</p>

3.6. Collaborations

2015	Organization: Powersys Solutions Scope of collaboration: Power Systems Laboratory of DUTH is an educational and research partner of Powersys Solutions using the software EMTP-RV of Powersys solutions. Local coordinator: Lecturer, T.A. Papadopoulos (duration: 2015-2016)
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3.7. Research publications

3.7.1. PhD Thesis

Theofilos A. Papadopoulos, «Influence of earth on the wave propagation characteristics of power transmission lines», Publications Office, AUTH, Thessaloniki, 2008.

3.7.2. Postdoctoral Thesis

Theofilos A. Papadopoulos, «Dynamic equivalent models of microgrids using real-time measurements», Thessaloniki, 2015.

3.7.3. Papers in Peer Reviewed International Journals

- J1. T.A. Papadopoulos, G.K. Papagiannis, P.S. Dokopoulos, "**Low-Voltage Distribution Line Performance Evaluation for PLC Signal Transmission**", IEEE Trans. on Power Delivery, Vol. PWRD-23, No. 4, Oct. 2008, pp. 1903-1910, doi: 10.1109/TPWRD.2007.916040.
- J2. T.A. Papadopoulos, G.K. Papagiannis, D.P. Labridis, "**Wave Propagation Characteristics of Overhead Conductors above Imperfect Stratified Earth**", IEEE Trans. on Magnetics, Vol. 45, No. 3, March 2009 pp. 1064 – 1067, doi: 10.1109/TMAG.2009.2012580.
- J3. T.A. Papadopoulos, D.A. Tsiमितros, G.K. Papagiannis, "**Impedances and Admittances of Underground Cables for the Homogeneous Earth Case**", IEEE Trans. on Power Delivery, Vol. PWRD-25, No 2, April 2010, pp. 961 – 969, doi: 10.1109/TPWRD.2009.2034797.
- J4. T.A. Papadopoulos, G.K. Papagiannis, D.P. Labridis, "**A generalized model for the calculation of the impedances and admittances of overhead power lines above stratified earth**", Electric Power Systems Research, Vol. 80, Issue 9, September 2010, pp. 1160-1170 2010, doi:10.1016/j.epsr.2010.03.009.
- J5. T.A. Papadopoulos, D.A. Tsiमितros, G.K. Papagiannis, "**Earth Return Admittances and Impedances of Underground Cables in Nonhomogeneous Earth**", IET Generation, Transmission and Distribution, vol. 5, no. 2, Feb. 2011, pp. 161 – 171 , doi: 10.1049/ietgtd.2010.0228.

After my election as a lecturer in the DECE-DUTH

- J6. T. A. Papadopoulos, Ch.G. Kaloudas, A.I. Chrysochos, G. K. Papagiannis, "**Application of Narrowband Power Line Communication in Medium Voltage Smart Distribution Grids**," IEEE Trans. on Power Delivery, Vol. PWRD-28, No 2, April 2013, pp. 981 – 988, doi: 10.1109/TPWRD.2012.2230344.
- J7. T. A. Papadopoulos, A.I. Chrysochos, G. K. Papagiannis, "**Narrowband Power Line Communication: Medium Voltage Cable Modelling and Laboratory Experimental Results**," Electric Power Systems Research, vol. 102, September 2013, pp. 50-60, doi:10.1016/j.epsr.2013.04.009.
- J8. T.A. Papadopoulos, A.I. Chrysochos, G.K. Papagiannis, "**Analytical Study of the Frequency Dependent Earth Conduction Effects on Underground Power Cables**," IET Generation, Transmission and Distribution, vol. 7, no. 3, March. 2013, pp. 161 – 171, doi: 10.1049/iet-gtd.2012.0425.
- J9. Ch. G. Kaloudas, T. A. Papadopoulos, K. V. Gouramanis, K. Stasinou, G. K. Papagiannis, "**Methodology for the Selection of Long Medium Voltage Power Cable Configurations**," IET Generation, Transmission and Distribution, vol. 7, no. 5, May. 2013, pp. 526 – 536, doi: 10.1049/iet-gtd.2012.0165.
- J10. P. N. Papadopoulos, T. A. Papadopoulos, P. Crolla, A. J. Roscoe, G. K. Papagiannis, G. M. Burt "**A Black-Box Dynamic Equivalent Model for Microgrids Using Measurement Data**," IET Generation, Transmission and Distribution, vol. 8, Iss. 5, pp. 851-861, 2014, doi: 10.1049/iet-gtd.2013.0524
- J11. I. N. Panapakidis, T. A. Papadopoulos, G. C. Christoforidis, Grigoris K. Papagiannis, "**Pattern Recognition Algorithms for Electricity Load Curve Analysis of Buildings**," Energy and Buildings, vol. 73, pp. 137-145, 2014, doi: 10.1016/j.enbuild.2014.01.002
- J12. P. N. Papadopoulos, M. Kandyla, P. Kourtza, T. A. Papadopoulos, G. K. Papagiannis, "**Parametric Analysis of the steady state and dynamic performance of Proton Exchange Membrane Fuel Cell Models Renewable Energy**," Renewable Energy, vol. 71, pp. 23-31, 2014, doi: 10.1016/j.renene.2014.05.010.
- J13. A. I. Chrysochos, T. A. Papadopoulos, G. K. Papagiannis, "**Robust Calculation of Frequency-Dependent Transmission Line Transformation Matrices Using the Levenberg-Marquardt Method**," IEEE Trans. on Power Delivery, Vol. PWRD-29, No 4, Aug. 2014, pp. 1621 – 1629, doi: 10.1109/TPWRD.2013.2284504.
- J14. T. A. Papadopoulos, A. I. Chrysochos, A. I. Nousedilis, G. K. Papagiannis, "**Simplified Measurement-Based Black-Box Modeling of Distribution Transformers Using Transfer**

- Functions,"** Electric Power Systems Research, vol. 121, 2015, pp. 77-88, doi:10.1016/j.epsr.2014.12.003.
- J15. A. I. Chrysochos, T. A. Papadopoulos, G. K. Papagiannis, "**Enhancing the Frequency-Domain Calculation of Transients in Multiconductor Power Transmission Lines,**" Electric Power Systems Research, vol. 122, 2015, pp. 56-64, doi.org/10.1016/j.epsr.2014.12.024.
- J16. P. N. Papadopoulos, T. A. Papadopoulos, P. Crolla, A. J. Roscoe, G. K. Papagiannis, G. M. Burt, "**Measurement-based Analysis of the Dynamic Performance of Microgrids using System Identification Techniques,**" IET Generation, Transmission & Distribution, vol. 9, no. 1, pp. 90-103, 2015, doi: 10.1049/iet-gtd.2014.0555.
- J17. A. I. Chrysochos, T. A. Papadopoulos, G. K. Papagiannis, "**A Rigorous Calculation Method for Resonance Frequencies in Transmission Line Responses,**" IET Generation, Transmission & Distribution, vol. 9, no. 8, pp. 767-778, 2015, doi: 10.1049/iet-gtd.2014.0948.

After my election as an Assistant Professor in the DECE-DUTH

- J18. G. C. Christoforidis, I. P. Panapakidis, T. A. Papadopoulos, G. K. Papagiannis, I. Koumparou, M. Hadjipanayi, G. E. Georghiou, "**A Model for the Assessment of Different Net-Metering Policies,**" Energies, vol. 9, no. 4, 262, 2016, doi: 10.3390/en9040262.
- J19. A. I. Chrysochos, T. A. Papadopoulos, A. ElSamadouny, G. K. Papagiannis, N. Al-Dhahir, "**Optimized MIMO-OFDM design for narrowband-PLC applications in medium-voltage smart distribution grids,**" Electric Power Systems Research, vol. 140, 2016, pp. 253-262, Electric Power Systems Research, doi:10.1016/j.epsr.2016.06.017.
- J20. T. A. Papadopoulos, A. I. Chrysochos, E. O. Kontis, P. N. Papadopoulos, G. K. Papagiannis, "**Measurement-Based Hybrid Approach for Ringdown Analysis of Power Systems,**" IEEE Transactions on Power Systems, vol. 31, no. 6, pp. 4435-4446, Nov. 2016, doi: 10.1109/TPWRS.2016.2514536.
- J21. K. S. Metallinos, T. A. Papadopoulos, C. A. Charalambous, "**Derivation and evaluation of generic measurement-based dynamic load models,**" Electric Power Systems Research, vol. 140, 2016, pp. 193-200, doi: 10.1016/j.epsr.2016.06.022.
- J22. T. A. Papadopoulos, A. I. Chrysochos, E. O. Kontis, G. K. Papagiannis, "**Ringdown analysis of power systems using vector fitting,**" Electric Power Systems Research, vol. 141, 2016, pp. 100-103, doi:10.1016/j.epsr.2016.07.016.
- J23. T. A. Papadopoulos, G.C. Christoforidis, G. K. Papagiannis, "**USE Efficiency: an innovative educational programme for energy efficiency in buildings,**" International Journal of Sustainable Energy, Article in Press, doi.org/10.1080/14786451.2015.1119833.

In the following tables, the Impact Factors of the Journals are presented, where the aforementioned papers appear, according to Thomson Reuters:

Table 1. Impact Factor of Journals

Journal	2014 Impact factor	5 year Impact factor	Number of Publications
Electric Power Systems Research	1.749	2.234	7
Energy and Buildings	2.884	3.617	1
IEEE Transactions on Magnetics	1.386	1.395	1
IEEE Transactions on Power Delivery	1.733	2.178	4
IEEE Transactions on Power Systems	3.342	4.234	1
IET Generation, Transmission & Distribution	1.353	1.866	6
Renewable Energy	3.476	3.982	1
Energies	2.077	2.468	1
International Journal of Sustainable Energy			1

3.7.4. International Peer Reviewed Conferences with Transactions

- C1. G. Papagiannis, K. Gouramanis, T. Papadopoulos, K. Papadopoulos, P. Dokopoulos, "**A PLC Based Energy Consumption Management System – Performance Analysis Of Overhead Lines And Underground Cables: Measurements And Simulation**", *Proceedings of the 4th MedPower Conference*, Lemesos, Cyprus, November 14-17, 2004, pp. 7.
- C2. G. K. Papagiannis, T. A. Papadopoulos, C. D. Dovas, D. A. Tsiमितros, P. S. Dokopoulos, "**A PLC-Based Energy Consumption Management System. PowerLine Performance Analysis: Field Tests and Simulation Results**", *PowerTech Conference, 2005 IEEE St. Petersburg*, 26-30 June, 2005.
- C3. T.A. Papadopoulos, Ch.G. Kaloudas, G.K. Papagiannis, "**A Multipath Channel Model for PLC Systems based on Nodal and Modal Method**", *IEEE - ISPLC Conference 2007*, Pisa, Italy, 26-28 March 2007.
- C4. T.A. Papadopoulos, T.A. Batalas, B.D. Radis, G.K. Papagiannis, "**Medium Voltage Network PLC Modeling and Signal Propagation Analysis**", *IEEE - ISPLC Conference 2007*, Pisa, Italy, 26-28 March 2007.

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- C5. G.T. Andreou, I.G. Dimoulkas, M.I. Mazneikou, T.A. Papadopoulos, D.P. Labridis, "**Performance of Commercially Available Residential PLC Modems**", *IEEE - ISPLC Conference 2007*, Pisa, Italy, 26-28 March 2007.
- C6. T.A. Papadopoulos, G.C. Argyropoulos, B.D. Sarantinos, G.K. Papagiannis, "**Analysis of Indoor PLC Networks: Laboratory Tests and Simulation Results**", *Power Tech, 2007 IEEE Lausanne*, Lausanne, Switzerland, 1-5 July 2007.
- C7. T.A. Papadopoulos, G.K. Papagiannis, "**Influence of Earth Permittivity on Overhead Transmission Line Earth-Return Impedances**", *Power Tech, 2007 IEEE Lausanne*, Lausanne, Switzerland, 1-5 July 2007.
- C8. C.G. Kaloudas, T.A. Papadopoulos, G.K. Papagiannis, "**Transient Performance of Overhead Transmission Lines Above Stratified Earth of Varying Permittivity**", *Proceedings of the 6th MedPower Conference*, Thessaloniki, Greece, 2-5 November 2008, p. 6.
- C9. T.A. Papadopoulos, D.A. Tsiमितros, G.K. Papagiannis, "**Analysis of the propagation characteristics of buried cables in imperfect earth**", *Power Tech, 2009 IEEE Bucharest*, Bucharest, Romania, 28 June-2 July 2009.
- C10. T.A. Papadopoulos, D.A. Tsiमितros, G.K. Papagiannis, "**Modal Propagation Characteristics of Underground Power Cable Systems**", *Proceedings of the 44th International Universities Power Engineering Conference (UPEC)*, Glasgow, Scotland, 1 - 4 September 2009.
- C11. D.A. Tsiमितros, T.A. Papadopoulos, G.K. Papagiannis, "**Modeling of Gas-Insulated Lines Buried in Single and in Two-Layer Earth**", *Proceedings of the 44th International Universities Power Engineering Conference (UPEC)*, Glasgow, Scotland, 1 - 4 September 2009.
- C12. Ch. G. Kaloudas, T.A. Papadopoulos, G.K. Papagiannis, "**Spectrum Analysis of transient Responses of Overhead Transmission Lines**", *45th International Universities Power Engineering Conference (UPEC)*, Cardiff, Wales, 31 August - 3 September, 2010.
- C13. T.A. Papadopoulos, A. I. Chrysochos, G.K. Papagiannis, "**Comparison of Earth Return Approaches on Modeling of Underground Cables**", *45th International Universities Power Engineering Conference (UPEC)*, Cardiff, Wales, 31 August - 3 September, 2010.
- C14. P. N. Papadopoulos, Ch. G. Kaloudas, T. A. Papadopoulos, G. D. Metaxas, G. K. Papagiannis, "**Magnetizing inrush current effects on large transformer arrangements**", *MedPower10 Conference*, Agia Napa, Cyprus, November 7-10, 2010.
- C15. Ch. G. Kaloudas, P. N. Papadopoulos, T. A. Papadopoulos, A. G. Marinopoulos, G. K. Papagiannis, "**Short-Circuit Analysis of a Power Plant Generator and Comparative Study of IEC, ANSI and Dynamic Simulation**", *MedPower10 Conference*, Agia Napa, Cyprus, November 7-10, 2010.
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- C16. M. Horner, G. C. Christoforidis, G. K. Papagiannis, T. A. Papadopoulos, "**USE: Efficiency: A First Level Audit Analysis of Selected University Buildings from 9 EU Countries**", *3rd International Scientific "Energy and Climate Change" Conference*, Athens, Greece, October 7-8, 2010.
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After my election as a lecturer in the DECE-DUTH

- C17. 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.
- C18. 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.
- C19. K. V. Gouramanis, Ch. G. Kaloudas, T. A. Papadopoulos, G. K. Papagiannis, K. Stasinou "**Sheath Voltage Calculations in Long Medium Voltage Power Cables**", *PowerTech, 2011 IEEE Trondheim*, Trondheim, Norway, June 19-23, 2011.
- C20. T. A. Papadopoulos, Ch. G. Kaloudas, P. N. Papadopoulos, A. G. Marinopoulos, G. K. Papagiannis "**Static and Dynamic Calculation of Short-Circuit Currents in Synchronous Generators**", *International Conference on Power Systems Transients - IPST*, Delft, The Netherlands, June 14-17, 2011.
- C21. Ch. G. Kaloudas, T. A. Papadopoulos, K. V. Gouramanis, K. Stasinou, G. K. Papagiannis, "**Simulation of Switching and Lightning Transients in Parallel Single-Core Underground Cables**", *46th International Universities Power Engineering Conference (UPEC)*, Soest, Germany, September 5 - 8, 2011.
- C22. A. I. Chrysochos, T. A. Papadopoulos, G. K. Papagiannis, "**Improved Time-Domain Modeling of Underground Cables**", *46th International Universities Power Engineering Conference (UPEC)*, Soest, Germany, September 5 - 8, 2011.
- C23. P. N. Papadopoulos, M. D. Chatziseris, T. A. Papadopoulos, A. G. Marinopoulos, G. K. Papagiannis, "**Integration of Smart Grid Technologies in a MicroGrid with PV and FC units**", *46th International Universities Power Engineering Conference (UPEC)*, Soest, Germany, September 5 - 8, 2011.
- C24. G. C. Christoforidis, K. Ch. Chatzivasvas, T. A. Papadopoulos, G. K. Papagiannis, "**Identifying non-Technological Barriers to Wind Power: Local Communities**", *9th International Conference on the European Energy Market*, Florence, Italy, May 10 - 12, 2012.
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- C25. A. I. Chrysochos, T. A. Papadopoulos, G. K. Papagiannis, "**Field Measurements of a Medium-Voltage Single-Core Cable Lying on the Ground Surface**", *47th International Universities Power Engineering Conference (UPEC)*, London Brunel, U.K., September 4 - 7, 2012.
- C26. P. N. Papadopoulos, T. A. Papadopoulos, G. K. Papagiannis, "**Dynamic Modeling of a MicroGrid using Smart Grid Technologies**", *47th International Universities Power Engineering Conference (UPEC)*, London Brunel, U.K., September 4 - 7, 2012.
- C27. D. D. Micu, L. Czumbil, G. Christoforidis, T. A. Papadopoulos, "**Semi-infinite integral implementation in the development steps of Interstud electromagnetic interference software**", *47th International Universities Power Engineering Conference (UPEC)*, London Brunel, U.K., September 4 - 7, 2012.
- C28. A. I. Chrysochos, E. T. Makri, A. C. Dimou, T. A. Papadopoulos, G. K. Papagiannis, "**An Investigation of the Performance of Underground Cable Installations in Operational and Fault Conditions**," *MedPower12 Conference*, Cagliari, Italy, October 1-3, 2012.
- C29. T. A. Papadopoulos, G. C. Christoforidis, K. Ch. Chatzisavvas, G. K. Papagiannis, "**Harmonic Level Measurements and Analysis at Higher Education Buildings**", *MedPower12 Conference*, Cagliari, Italy, October 1-3, 2012.
- C30. I. P. Panapakidis, T. A. Papadopoulos, G. C. Christoforidis, G. K. Papagiannis, "**Analysis of the Electricity Demand Patterns of a Building in a University Campus**," 2013 EEEIC, 12th International Conference on Environment and Electrical Engineering, Wroclaw, Poland, May 5-8.
- C31. A. S. Bouhouras, T. A. Papadopoulos, G. C. Christoforidis, G. K. Papagiannis, D. P. Labridis "**Loss Reduction via Network Reconfigurations in Distribution Networks with Photovoltaic Units Installed**," *10th International Conference on the European Energy Market*, Stockholm, Sweden, May 27 - 31, 2013.
- C32. A. I. Chrysochos, C. G. Kaloudas, T. A. Papadopoulos, G. K. Papagiannis, "**On the Use of the Finite Conductor Length Approach for the Calculation of Electromagnetic Transients in Overhead Transmission Lines**," IEEE PowerTech 2013, Grenoble, France, 16-20 June 2013.
- C33. T. A. Papadopoulos, P. N. Papadopoulos, P. Crolla, A. J. Roscoe, G. K. Papagiannis, Graeme M. Burt, "**Dynamic Performance of a Low Voltage MicroGrid with Droop Controlled Distributed Generation**," 2013 IEEE Power & Energy Society General Meeting, Vancouver, British Columbia, Canada July 21-25, 2013.
- C34. P. N. Papadopoulos, T. A. Papadopoulos, P. Crolla, A. J. Roscoe, G. K. Papagiannis, Graeme M. Burt, "**Modelling of Distributed Energy Resources Using Laboratory-Experimental Results**," *48th International Universities Power Engineering Conference (UPEC)*, Dublin, Ireland, September 2 - 5, 2013.

- C35. A. I. Chrysochos, T. A. Papadopoulos, G. K. Papagiannis, "**Analysis of the Propagation Characteristics of Single-Core Cables from Experimental Results using Modal Decomposition**," *48th International Universities Power Engineering Conference (UPEC)*, Dublin, Ireland, September 2 - 5, 2013.
- C36. A. S. Bouhouras, T. A. Papadopoulos, G. C. Christoforidis, G. K. Papagiannis, Dimitris P. 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)*, Dublin, Ireland, September 2 - 5, 2013.
- C37. G. C. Christoforidis, T. A. Papadopoulos, C. C. Parisses, D. D. Micu, L. Czumbil, "**Induced Voltages and Currents on Metallic Pipelines from Medium-Voltage Cables Connecting Photovoltaic Parks**," *48th International Universities Power Engineering Conference (UPEC)*, Dublin, Ireland, September 2 - 5, 2013.
- C38. G. C. Christoforidis, T. A. Papadopoulos, C. C. Parisses, G. E. 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)*, September 19-22, 2013, Corfu Island, Greece.
- C39. G. C. Christoforidis, T. A. Papadopoulos, I. P. Panapakidis, G. K. Papagiannis, "**PV Power Clustering as a Means to Evaluate Energy Storage Options**," *International Conference on Renewable Energy Research and Applications (ICRERA 2013)*, October 20-23, 2013, Madrid, Spain.
- C40. T. A. Papadopoulos, D. Tampakis, G. K. Papagiannis, G. C. Christoforidis, "**Energy performance analysis of pre- and post-retrofit households in Greece**," *International Conference on Buildings Energy Efficiency and Renewable Energy Sources 2014 (BEE-RES 2014)*, June 1-3, 2014, Kozani, Greece.
- C41. K. A. Liaka, K. Z. Tsagari, P. N. Papadopoulos, T. A. Papadopoulos, G. K. Papagiannis, "**Eigenvalue Analysis of Microgrids using Linearization and System Identification Techniques**," *49th International Universities Power Engineering Conference (UPEC)*, Cluj-Napoca, Romania, September 2 - 5, 2014.
- C42. A. I. Chrysochos, A. I. Nousedilis, T. A. Papadopoulos, G. K. Papagiannis, "**A Wide Band Black-Box Model of Power Transformers in ATP/MODELS**," *49th International Universities Power Engineering Conference (UPEC)*, Cluj-Napoca, Romania, September 2 - 5, 2014.
- C43. E. O. Kontis, K. S. Dimos, T. A. Papadopoulos, P. N. Papadopoulos, Grigoris K. Papagiannis, "**Comparison of static and dynamic calculations of short circuit currents in distributed generation networks**," *49th International Universities Power Engineering Conference (UPEC)*, Cluj-Napoca, Romania, September 2 - 5, 2014.

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- C44. T. A. Papadopoulos, G. C. Christoforidis, D. D. Micu, L. Czumbil, "**Medium-voltage cable inductive coupling to metallic pipelines: A comprehensive study**," *49th International Universities Power Engineering Conference (UPEC)*, Cluj-Napoca, Romania, September 2 - 5, 2014.
- C45. T. A. Papadopoulos, A. I. Chrysochos, A. Elsamadouny, G. K. Papagiannis, N. Al-Dhahir, "**MIMO Modeling and Data Rates for Medium-Voltage Narrowband-PLC in Smart Distribution Grids**," *Innovative Smart Grid Technologies Europe (ISGT EUROPE)*, 2014 5th IEEE/PES, 12-15 Oct. 2013.
- C46. T. A. Papadopoulos, E. O. Kontis, P. N. Papadopoulos, G. K. Papagiannis, "**System Identification Techniques for Power Systems Analysis using Distorted Data**," *MedPower14 Conference, Athens, Greece, November 2-5, 2014*.
- C47. T. A. Papadopoulos, E. N. Tzanidakis, P. N. Papadopoulos, P. Crolla, G. K. Papagiannis, G. M. Burt, "**Aggregate Load Modeling in Microgrids using Online Measurements**," *MedPower14 Conference, Athens, Greece, November 2-5, 2014*.
- C48. G. C. Christoforidis, I. P. Panapakidis, T. A. Papadopoulos, A. I. Chrysochos, G. K. Papagiannis, I. Koumparou, G. E. Georghiou, "**Assessing policies for photovoltaic net-metering in Greece**," *MedPower14 Conference, Athens, Greece, November 2-5, 2014*.
- C49. A. Elsamadouny, N. Al-Dhahir, A. I. Chrysochos, T. A. Papadopoulos, G. K. Papagiannis, "**Multi-User MIMO Broadcasting/Multicasting for Medium-Voltage Narrowband-PLC Networks**," *IEEE - ISPLC Conference 2015*, Austin, TX USA, 29-31 March 2015.
- C50. A. I. Chrysochos, G. P. Tsolaridis, T. A. Papadopoulos, G. K. Papagiannis, "**Damping of Oscillations Related to Lumped-Parameter Transmission Line Modeling**," *International Conference on Power Systems Transients - IPST*, Cavtat, Croatia, June 15-18, 2015.
- C51. T. A. Papadopoulos, A. I. Chrysochos, E. O. Kontis, G. K. Papagiannis, "**Identification of Oscillatory Modes in Power System Responses via Vector Fitting**," *International Conference on Power Systems Transients - IPST*, Cavtat, Croatia, June 15-18, 2015.
- C52. G. C. Christoforidis, I. P. Panapakidis, T. A. Papadopoulos, A. I. Chrysochos, G. K. Papagiannis, I. Koumparou, M. Hatzipanayi, G. E. Georghiou, "**Investigating Net-Metering Variant Policies: The Case of Greece**," *15 IEEE International Conference on Environment and Electrical Engineering, Rome, Italy, 10 - 13 June 2015*.
- C53. M. M. Viyathukattuva Mohamed Ali, P. H. Nguyen, W. L. Kling, A. I. Chrysochos, T. A. Papadopoulos, G. K. Papagiannis, "**Fair Power Curtailment of Distributed Renewable Energy Sources to Mitigate Overvoltages in Low-Voltage Networks**," *IEEE PowerTech 2015, Eindhoven, The Netherlands, 29 June – 2 July 2015*. doi: 10.1109/PTC.2015.7232796.
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- C54. E. O. Kontis, A. I. Chrysochos, T. A. Papadopoulos, G. K. Papagiannis, "**Development of Measurement-Based Generic Load Models for Dynamic Simulations,**" *IEEE PowerTech 2015, Eindhoven, The Netherlands, 29 June – 2 July 2015*. doi: 10.1109/PTC.2015.7232800
- C55. A. I. Chrysochos, T. A. Papadopoulos, A. Elsamadouny, G. K. Papagiannis, N. Al-Dhahir, "**MIMO-OFDM Narrowband-PLC Transmission through Distribution Transformers: Modeling and Achievable Data Rates,**" *IEEE SmartGridComm 2015, Miami, FL USA, 2-5 November 2015*.
- C56. E. O. Kontis, A. I. Chrysochos, G. K. Papagiannis, T. A. Papadopoulos, "**Modeling of Nonlinear Dynamic Power System Loads Using the Vector Fitting Technique,**" *51th International Universities Power Engineering Conference (UPEC), Coimbra, Portugal, September 6 - 9, 2016*.
- C57. T. A. Papadopoulos, A. I. Chrysochos, D. I. Doukas, G. K. Papagiannis, D. P. Labridis, "**Induced voltages and currents: overview and evaluation of simulation models and methodologies,**" *MedPower16 Conference, Belgrade, Serbia, November 6-9, 2016*.
- C58. T. A. Papadopoulos, G. T. Giannakopoulos, V. C. Nikolaidis A. S. Safigianni, "**Study of electricity load profiles in university campuses: The case study of Democritus University of Thrace,**" *MedPower16 Conference, Belgrade, Serbia, November 6-9, 2016*.
- C59. V. Nikolaidis, A. Karaolanis, T. Papadopoulos, A. Safigianni, "**Transient stability considerations in a real distribution system with distributed generators,**" *MedPower16 Conference, Belgrade, Serbia, November 6-9, 2016*.

3.7.5. Workshops

- W1. Ch. Demoulias, K. Gouramanis, T. Papadopoulos, I. Papaioannou, P. Dokopoulos, "**Accuracy in the measurement of Electrical Power and Energy under non-sinusoidal conditions,**" *Technical Chamber of Greece Workshop for Power Electronics, electrical Drive Systems and Industrial Applications, Athens, 5-6 April 2006*. (In Greek)
- W2. T.A. Papadopoulos, G.K. Papagiannis, D.P. Labridis, "**Modeling of Overhead Power Lines for Broadband PLC Applications,**" *Workshop on Applications for Powerline Communications, Thessaloniki, Greece, 2-3 October 2008*. (Without proceedings)

3.7.6. Other publications

- A1. T. Papadopoulos, D. Tampakis, G. Papagiannis, "**Countdown to low carbon homes,**" *Technical Inspection*, vol. 260, Sep. - Oct 2014, p. 14-20. (In Greek)

3.7.7. Awards-Scholarships

2013-2015	Scholarship for postdoctoral research in the frame of the program «I.K.Y. Fellowships of Excellence for Postgraduate Studies in Greece–Siemens Program»
2007	Basil Papadias award for the best student paper among 200 in the international conference PowerTech '07, Lausanne, Switzerland (July 2007). This paper is referred as C7 above.
2004	Scholarship from the Technical Chamber of Greece for outstanding performance in the last year of undergraduate studies (2002-2003).
2004	Award for the 3 rd best diploma thesis in the 1 st Symposium of Diploma Thesis in the Aristotle University of Thessaloniki

4. Administrative activity

2015-2016	Member of the DECE's General Assembly and Member of the DECE's General Assembly with Dedicated Configuration
2015-2016	Member of the Reception Committees in several public tenders conducted from the Special Account for Research Funding of Democritus University of Thrace
2015	Associate member of the Election Committee for the election of the Chairman of DECE

5. Other research and scientific activities

Reviewer in journals	<ul style="list-style-type: none"> • IEEE Transactions on Power Delivery (IEEE Power & Energy Society) • IEEE Transactions on Power Systems (IEEE Power & Energy Society) • IEEE Transactions on Smart Grid (IEEE Power & Energy Society) • IEEE Transactions on Sustainable Energy (IEEE Power & Energy Society) • IEEE Transactions on Industrial Informatics (Industrial Electronics Society) • IET Proceedings on Generation, Transmission and Distribution (IET) • IET Communications (IET) • Electric Power Systems Research (Elsevier) • International Journal of Electrical Power & Energy Systems (Elsevier) • COMPEL: The International Journal for Computation and Mathematics in Electrical and Electronic Engineering (Emerald Engineering) • Frontiers of Information Technology & Electronic Engineering (Springer) • International Journal of Sustainable Energy (Taylor & Francis) • Energies (MDPI) • Journal of Computational Engineering (Hindawi) • Trends in Renewable Energy • Ingeniería e Investigación Journal
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Member of Technical Program Committees	<ul style="list-style-type: none"> • IEEE Grenoble PowerTech 2013 (for the Basil Papadias Award contest) • 2013 & 2016 International Conference on Environment and Electrical Engineering • IEEE SmartGridComm 2014 • Universities Power Engineering Conference (UPEC) 2014 • IECON 2013, 39th Annual Conference of the IEEE Industrial Electronics Society
Session Chair	<ul style="list-style-type: none"> • Universities Power Engineering Conference (UPEC) 2014, , 2-5 September 2014, Cluj-Napoca, Romania
Examination Committees	<ul style="list-style-type: none"> • Reviewer of the State Scholarship Foundation (IKY) for graduate scholarships and research projects. • Member of the Examination Committee for Licensing Electrical and Computer Engineers, Technical Chamber of Greece, 2016 - present

6. Other activities

6.1. Professional activities

2012-2014	Inspector of Photovoltaic installations in TUV Hellas.
2011-2014	Studies for the energy efficiency and electrical installation studies as a freelancer

6.2. Teaching activities

2004-2006	Teacher in 'COMPUTER NETWORKS I' και 'NETWORKS MANAGEMENT II' in the public I.E.K. "Triandrias".
2004-2005	Teacher in 'COMPUTER NETWORKS II' in the public στο δημόσιο 1st I.E.K.of Thessaloniki.
2003	Internship in the PPC of the Hellenic National Power System, (2 months)
2002	Assistant teacher in the public Center of School Education of the 1st High School of Ano Toumba of Thessaloniki (2 semesters)
2002	I.A.E.S.T.E internship in the "Lighting and High Voltage Laboratory of the Helsinki University of Helsinki", (2 months)

7. Languages

Michigan Proficiency	English
C1 Certificat	German

8. Professional Bodies and Organizations

Member of the Technical Chamber of Greece (TEE)

Member of the Institute of Electrical and Electronics Engineers (IEEE)

Member of the Institution of Engineering and Technology (MIET)

Member of the Association of Mechanical & Electrical Engineers of N. Greece (SMHBE)

Member of the European EMTP Users Group