



Dimitrios Stimoniaris was born in Kozani, Greece, in 1964.

Personal web-page: <http://www.teiwm.gr/site/dstim>

i-a) Personal Studies

He received:

1. The Dipl.-Eng. degree from the Department of Electrical and Computer Engineering at the Aristotle University of Thessaloniki, Greece in 1989.
2. The Master degree from the Department of Electrical and Computer Engineering at the Democritus University of Thrace, Greece in 2005. Theses title: Renewable Technologies integration in the grid.
3. The Ph.D. degree from the School of Electrical and Computer Engineering of the National Technical University of Athens in 2016.

i-b) Working experience

He has a 20 year experience as supervisor electrical engineer and technical consultant at industrial and residential installations in the prefecture of Western Macedonia, Greece, owning and managing a technical studies and applications bureau since 1992.

i-c) Teaching experience

Since 2001 he belongs to the teaching staff of the dept of Electrical and Computer Engineering, at the Technological Institute of Western Macedonia, Greece, where he served as a Visiting Professor of Technolgical Applications and since 2011 as a regular Professor of Technological Applications. His special interests include renewable energy resources, microgrids and smart grids.

i-d) Administrative experience

He has gained significant experience serving in the following administrative positions:

1. Since 2010, he is Vice-President of Thessaloniki's Integrated Transport Authority Board (<http://www.thita.gov.gr/en>).
2. Since 2007 he is member of the Technical Studies and Constructions Authority Board of Kozani Municipality.

i-e) Research Projects

He is Scientific Responsible in :

1. «Promotion of Energy Efficiency in Buildings and Protection of the Environment – PEEBPE», of the Greece-FYROM IPA Cross-Border Programme 2007-2013, with budget: 674.999,00 €.
2. «Smart Electric Energy Management and Buildings Energy Efficiency Technology – SEEMBEET”, of the Greece-Turkey Bilateral R&T Cooperation programme. Budget: 78.520 €.

He is member of the team in:

1. «Protection of the environment through the promotion of biomass for substitution of fossil fuels in heating and power generation – BIOFOSS», of the Greece-FYROM IPA Cross-Border Programme 2007-2013, with budget: 501.902,00 €.

3. Since 2010 he is member of the Technical Chamber of Greece/Dept of Western Macedonia Board.

ii) List of relevant publications

ii-a) Scientific Journals:

1) D. Stimoniaris, D. Tsiamitros, E. Dialynas, "Improved Energy Storage Management and PV-Active Power Control Infrastructure and Strategies for Microgrids," IEEE Trans on Power Systems, D.O.I.: 10.1109/TPWRS.2015.2389954, early access articles.

2) Dimitrios Stimoniaris, T. Kollatou, Dimitrios Tsiamitros, M. A. Zehir, A. Batman, M. Bagriyanik, A. Ozdemir and E. Dialynas, "Demand-Side Management by Integrating Bus Communication Technologies into Smart Grids", Electric Power Systems Research (EPRS), DOI: 10.1016/j.eprs.2016.02.026.

3) D. Stimoniaris, D. A. Tsiamitros, N. Poulakis, T. Kottas, A. Pashopoulos, E. Dialynas, "Experimental Investigation of Smart Grids Topologies with High Penetration of Renewable Energy Sources ", Scientific Journal of the Society of Mechanical-Electrical Engineers of Northern Greece e-science, No 2, October 2011, (available on-line: <http://www.smhbe.gr/images/downloads/eTechnologia%20teyxos%2002.pdf>).

ii-b) International Conferences:

1) A. Karlis, D. Papadopoulos, D. Stimoniaris, "A General Procedure to Evaluate Techno-Economically Small Hydroelectric Stations" World Renewable Energy Congress, May 22-27, 2005, Aberdeen Exhibition and Conference Center Scotland, UK.

2) D. Stimoniaris, D. A. Tsiamitros, T. Kottas, N. Asimopoulos,, E. Dialynas, "Smart Grid Simulation Using Small-scale Pilot Installations. - Experimental Investigation of a Centrally-controlled Microgrid", IEEE PowerTech 2011 Conference, paper #84, 19-23 June 2011, Trondheim, Norway.

3) D. Stimoniaris, D. A. Tsiamitros, N. Poulakis, T. Kottas, V. Kikis, E. Dialynas, "Investigation of Smart Grid Topologies Using Pilot Installations Experimental Results", IEEE Innovative Smart Grid Technologies 2011 Conference, paper #7, 5-7 December 2011.

- 4) Dimitrios Stimoniariis, Dimitrios Tsiमितros, V. Zacharaki, T. Kottas, S. Maropoulos, M. Stefanovski, Z. Stepanovski, I. Milosovska, N. Susevski, K. Micalovski, V. Karagiannis, K. Zarmakoupis, "Energy Audits in Public Buildings ", International Conference on Buildings Energy Efficiency and Renewable Energy Sources BEE RES 2014, 1-3 June 2014, Kozani, Greece.
- 5) Dimitrios Tsiमितros, Dimitrios Stimoniariis, N. Poulakis, Evangelos Dialynas, "Supply-side Ancillary Services at a Microgrid-based Smart Grid Topology", International Conference on Buildings Energy Efficiency and Renewable Energy Sources BEE RES 2014, 1-3 June 2014, Kozani, Greece.
- 6) Dimitrios Tsiमितros, Dimitrios Stimoniariis, T. Kottas, V. Zacharaki, Evangelos Dialynas, "Control algorithm and infrastructure for smart grid topologies", International Conference on Buildings Energy Efficiency and Renewable Energy Sources BEE RES 2014, 1-3 June 2014, Kozani, Greece.
- 7) Dimitrios Tsiमितros, Dimitrios Stimoniariis, N. Poulakis, M. A. Zehir, A. Batman, M. Bagriyanik, A. Ozdemir and E. Dialynas, "Advanced Energy Storage and Demand-Side Management in Smart Grids using Buildings Energy Efficiency Technologies", IEEE Innovative Smart Grid Technologies 2014 Conference, Istanbul, Turkey, 12-15 October 2014.
- 8) T. Kollatou, Dimitrios Tsiमितros, Dimitrios Stimoniariis, V. Kikis, M. A. Zehir, A. Batman, M. Bagriyanik, A. Ozdemir and E. Dialynas, "Advanced Demand-Side Management in Microgrids using KNX Technologies", 2014 KNX Scientific Conference, Wiesbaden, Germany, 30-31 October 2014.
- 9) Dimitrios Stimoniariis, Dimitrios Tsiमितros, V. Zacharaki, F. Dialynas, T. Kottas, S. Maropoulos, M. Stefanovski, Z. Stepanovski, I. Milosovska, K. Micalovski, V. Karagiannis, T. Papotis, E. Dialynas, "Energy Efficiency in Public Buildings", MedPower 2014 Conference, Athens, Greece, 2-5 November 2014.
- 10) Dimitrios Stimoniariis, Dimitrios Tsiमितros, N. Poulakis, T. Kottas and Evangelos Dialynas, "Experimental-based improvements of the flexibility of RES and energy storage plants", MedPower 2014 Conference, Athens, Greece, 2-5 November 2014.
- 11) Dimitrios Stimoniariis, Dimitrios Tsiमितros, V. Zacharaki, F. Dialynas, T. Kottas, S. Maropoulos, M. Stefanovski, Z. Stepanovski, I. Milosovska, K. Micalovski, V. Karagiannis, T. Papotis, E. Dialynas, "Smart Energy Efficiency Interventions in Public Buildings", Intelligent Transportation Systems and Smart Cities - ITS Conference 2014, Patras, Greece, 19-22 November 2014.
- 12) T. Kottas, D. Stimoniariis, D. Tsiमितros, V. Kikis, Y. Boutalis, E. Dialynas, "New Operation Scheme and Control of Smart Grids using Fuzzy Cognitive Networks", IEEE PowerTech 2015 Conference, 29 June -2 July 2015, Eindhoven, the Netherlands.
- 13) D. Stimoniariis, T. Kollatou, D. Tsiमितros, K. Gavros, V. Kikis, S. Asimonis, M. A. Zehir, A. Batman, M. Bagriyanik, A. Ozdemir, and E. Dialynas, "Cooperation scheme between KNX and a microgrid control system for enhanced demand-side management", **ELECO2015 Conference**, paper #40, 26-28 November 2015, Bursa, Turkey.
- 14) M. A. Zehir, A. Batman, M. A. Sonmez, A. Font, D. Tsiमितros, D. Stimoniariis, T. Kollatou, M. Bagriyanik, A. Ozdemir, E. Dialynas, "Development of a Field Data-based Virtual Test Bed for Microgrid Integration of Building Automation Technologies", **ELECO2015 Conference**, 26-28 November 2015, Bursa, Turkey.