

Personal details

Name and surname: Charalambos Elias

Current Position: Assistant Professor

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Education

Dr. Charalambos Elias was born in Athens on July 20, 1973. He received the Diploma in Computer Engineering and Informatics from the Department of Electrical Engineering of the Polytechnic School of the Aristotle University of Thessaloniki, Greece in 1996. His diploma thesis "Development of a fuzzy expert system for load forecasting" was elaborated in the Laboratory of Electrical Energy Systems under the supervision of Prof. Anastasios Bakirtzis.

After completing his studies he was accepted by the Electrical Power Sector of the School of Electrical and Computer Engineering of NTUA for postgraduate studies in the "Production & Management of Energy". He graduated on November 18, 2002 and received his postgraduate diploma from the NTUA postgraduate program.

He obtained a Ph.D. in load and energy forecasting from the Department of Electrical and Computer Engineering of the NTUA, Greece in 2012. His doctoral thesis "Contribution to Short-term and Medium-term Forecasting of Electricity Load and Energy Using Fuzzy Logic" was elaborated in the Laboratory of Electrical Power Systems under the supervision of Professor N. Hatziargyriou.

Educational Experience

From 1997 to 2017 he was a visiting Assistant Professor at the Department of Electrical Engineering T.E., Technological Education Institute of Sterea Ellada. From December 2017 to December 2018 he was an Assistant Professor at the Department of Electrical Engineering of the Technological Educational Institute of Sterea Ellada. From January 2019 he is an Assistant Professor at the **General Department, National and Kapodistrian University of Athens**, Greece. He teaches Electric Circuits, Electric Machines and Electric Motors.

Since 2015 participates, as a lecturer, in the **Postgraduate Program "Intelligent Management of Renewable Energy Systems"** of the Department of Electrical Engineering of TEI of Sterea Ellada dealing with: "**Advanced Energy Saving Technologies**" and "**Power System Analysis**".

Research-Publications

His research interests include energy generation and distribution, advanced technologies for energy saving, forecasting electricity load and energy, renewable energy sources and microgrids, fuzzy expert systems. Results of his research work are published in 8 international journals (first author in 2 publications), in proceedings of 18 international conferences (first author in 2 publication). He has attracted over 350 citations.

Participation in Research Projects

Dr Charalambos Elias participated in two research projects of TEI of Sterea Ellada:

1. "**Modeling and Optimization of Magnetostrictive Torque Sensors**" of the incorporated Act Archimedes III of TEI of Sterea Ellada (2013-2015).
2. "**Smart System of Educational Procedures Based on the Gamification Methodology - SMARTEGE**" (2014-2016).