

## PRESS RELEASE

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### **DISTINGUISHED INTERNATIONAL AWARD FOR KIOS RESEARCHER AT THE UNIVERSITY OF CYPRUS**

***Research to improve the performance of power distribution systems and potentially bringing a reduction in the cost of electricity for consumers.***



Markos Asprou, a Ph.D. student at the University of Cyprus and a researcher at the KIOS Research Center for Intelligent Systems and Networks, has received a prestigious, international award which is given to a select number of Graduate students each year. The Graduate Fellowship Award is given by the Instrumentation and Measurement Society (<http://iee-ims.org/>) of the Institute of Electrical and Electronics Engineers (IEEE). The selection process for this award is extremely competitive, with large numbers of applications being received from student members of the IEEE around the world. This year, the award was given to 3 candidates only. The other two candidates selected for the award, originate from universities in the USA.

The award comes in the form of grant to the value of 15,000.00 dollars, to undertake important research in the area of Instrumentation and Measurement. This is a significant recognition of the quality and level of research being undertaken by Markos Asprou at the KIOS Research Center for Intelligent Systems and Networks and the University of Cyprus.

In his research proposal, Markos Asprou focused on the optimization of electric power systems and the improvement of their performance through better monitoring systems. More specifically the award will support research to develop a concrete and robust methodology for identifying and estimating the erroneous transmission line parameters that are stored in the database of the control centers of electric

utilities. The errors in the line parameters may be due to obsolete databases, inaccurate data, or changes in the properties of the lines after repairs. This is an important research area with the potential to improve the effectiveness and efficiency of power distribution systems, avoiding unnecessary failures, as well as potentially reducing electricity costs for consumers.

It is expected that the identification and estimation of the erroneous line parameters will have a major impact on the accuracy of several of the applications operating within power systems control centers, such as state estimation, voltage stability assessment, power flow analysis, economic dispatch, and transient stability analysis. With the improvement of the aforementioned applications the reliability of the power systems will be enhanced and the propagation of severe faults will be further reduced. The impact of the proposed method is also expected to appear through reduced costs for the electric utilities.

Markos Asprou obtained his B.Sc. Degree at the University of Cyprus. His work is supervised by Professor Elias Kyriakides, Assistant professor at the Department of Electrical and Computer Engineering of the University of Cyprus and Associate Director of the KIOS Research Center for Intelligent Systems and Networks.

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