

PRESS RELEASE

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Significant Best Paper Award 2014 International Journal Building and Environment for Cyprus based scientists



A collaborative research effort between faculty and research members at the Cyprus University of Technology and the KIOS Research Center of the University of Cyprus has won the Best Paper Award 2014 from the international journal *Building and Environment*. The award is granted annually by Elsevier (the publisher of the journal), following a competitive selection from over 1.500 papers submitted each year. The awarded papers are selected for their innovative content, the scientific quality of the research, the quality of presentation and for their contributions to the field.



The authors of the awarded paper are, Dr Michalis P. Michaelides from the Cyprus University of Technology, Dr Vasso Reppa and Marinos Christodoulou researchers at the KIOS Research Center and Professors Christos G. Panayiotou and Marios M. Polycarpou who are faculty members of the KIOS Research Center and the Department of Electrical and Computer Engineering at the University of Cyprus. The research presented in the paper was partially funded by the European Commission's 7th Framework Program (Project iSense 270428), and by the European Regional Development Fund and the Republic of Cyprus through the

Research Promotion Foundation.

The awarded paper entitled "*Contaminant event monitoring in multi-zone buildings using the state-space method*" investigates the problem of monitoring contaminants in intelligent buildings. The research paper proposes a solution to effectively detect and isolate the source of such contaminations. The issue of building contamination which may be the result of an accident, faulty equipment or a planned attack is particularly important as it can pose a potential risk to all building users. Contamination events in buildings can compromise the indoor air quality and influence the occupants' comfort, health, productivity and safety. Under these safety-critical conditions, immediate event

detection should be guaranteed and the proper actions should be taken to ensure the safety of the people. The innovative feature of the research is the development of the state-space method for multi zone buildings which allows for the use of more advanced technologies to detect faults and monitor contamination events in intelligent buildings.

The award demonstrates the high-quality of research undertaken by the Cyprus based scientists. It also provides international visibility and recognition for the research performed in Cyprus in the field of *Information and Communications Technologies* (ICT) and in particular in the areas of monitoring and control of Intelligent Buildings.

For more information on the award:

<http://www.journals.elsevier.com/building-and-environment/news/2014-best-paper-awards-announced/>

The paper can be viewed here: <http://www.sciencedirect.com/science/article/pii/S0360132313002837>

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