

1837
2017
ΧΡΟΝΙΑ



ΕΛΛΗΝΙΚΗ ΔΗΜΟΚΡΑΤΙΑ

Εθνικόν και Καποδιστριακόν Πανεπιστήμιον Αθηνών

ΤΜΗΜΑ ΦΥΣΙΚΗΣ

ΤΟΜΕΑΣ ΦΥΣΙΚΗΣ ΠΕΡΙΒΑΛΛΟΝΤΟΣ-ΜΕΤΕΩΡΟΛΟΓΙΑΣ

Πανεπιστημιούπολη, Κτίρια ΦΥΣ-5, 157 84, Αθήνα

Δευτέρα 16 Οκτωβρίου 2017, ώρα 14:00

Αίθουσα Συνεδριάσεων του Τμήματος Φυσικής (2^{ος} όροφος, απέναντι από τη Γραμματεία)

Θέμα: Using Sensors and the Internet of Things (IoT) to Better Understand Energy Behavior in a Commercial Office Building

Dr. Sekhar Narayana Kondepudi, *Associate Professor of Smart Buildings, Smart Cities and the Internet of Things (IoT), National University of Singapore*

Abstract

Understanding the energy behavior of a building is critical for efficient building operations and for confirming projected energy savings from implemented retrofits. However, measuring and analyzing all possible energy related points in order to understand the energy behavior of the building can be very cost prohibitive. In addition, the use of ICT for Green Computing is also discussed within this context. This presentation will demonstrate how the use of sensors and IoT is used to identify and quantify the most relevant data points for a meaningful energy analysis. An approach is discussed in placing these sensors subject to the constraints in a live, functioning office building, the challenges and early results from the collection.

About Professor Kondepudi

Dr. Sekhar Kondepudi is currently an Associate Professor of Smart Buildings, Smart Cities and the Internet of Things (IoT) at the National University of Singapore. At NUS, he is currently the Director of the MSc in Environmental

Management (MEM) Program. He has a PhD in Energy and Buildings with 25 years of global business and product experience in a variety of technology verticals related to the Built Environment including IoT, Smart Cities, Energy, Smart Homes and Buildings, Utilities, Networking, Voice, Semiconductors, Healthcare & Public Safety. He also is active in Smart City and IoT Standards work with the International Telecommunications Union (ITU – the specialized IT arm of the United Nations) and UNCTAD.

In the past, Dr. Kondepudi has led Global Product Management and Business Development for Smart+Connected Communities (S+CC) at Cisco Systems developing software, related products and solutions for Smart Buildings and Smart Cities. Previously, Prof. Kondepudi has been General Manager of Mobile Devices for Wind River Systems, Director of Business Development at Motorola, has worked at a variety of high tech start-ups in Silicon Valley, with the electric utilities industry at the Electric Power Research Institute (EPRI) in Palo Alto, California and the United States Environmental Protection Agency (US EPA).

Sekhar is a proud Alumni of IIT Bombay (BTech, Mechanical Engineering 1983).