



**IEEE GREECE CASS/SSCS
JOINT CHAPTER**

Invited Lecture

The IEEE Greece CAS/SSC joint Chapter, in the frame of the IEEE Circuits and System Society **Distinguished Lecturer Program**, is inviting you in the lecture of:

Prof. Gabriel Rincon-Mora*

Professor at Georgia Institute of Technology (Georgia Tech), Atlanta, GA, USA

entitled:

“Energizing and Powering Microsystems”

The lecture will be given on **Friday, December 7, 2018, at 12:00,**
in the Amphitheater I of KEDEA, Aristotle University of Thessaloniki.

(There will be live webcasting of the event at the link: <https://www.auth.gr/video/26139>)

Information: Prof. Alkis Hatzopoulos, tel. +302310-996305, 2310-996221, alkis@eng.auth.gr

**Abstract and lecturer's short bio are following.*

Energizing and Powering Microsystems

by

Prof. Gabriel Rincon-Mora

Professor at Georgia Institute of Technology (Georgia Tech), Atlanta, GA, USA

Abstract: Networked wireless microsensors can not only monitor and manage power consumption in small- and large-scale applications for space, military, medical, agricultural, and consumer markets but also add cost-, energy-, and life-saving intelligence to large infrastructures and tiny devices in remote and difficult-to-reach places. Ultra-small systems, however, cannot store sufficient energy to sustain monitoring, interface, processing, and telemetry functions for long. And replacing or recharging the batteries of hundreds of networked nodes can be labor intensive, expensive, and oftentimes impossible. This is why alternate sources are the subject of ardent research today. Except power densities are low, and in many cases, intermittent, so supplying functional blocks is challenging. Plus, tiny lithium-ion batteries and super capacitors, while power dense, cannot sustain life for extended periods. This talk illustrates how emerging microelectronic systems can draw energy from elusive ambient sources to power tiny wireless sensors.



Bio: Gabriel A. Rincón-Mora has been Professor at the Georgia Institute of Technology (Georgia Tech) since 2001, Visiting Professor at National Cheng Kung University since 2011, was Adjunct Professor at Georgia Tech in 1999-2001, and Design Team Leader at Texas Instruments in 1994-2003. He is Fellow of the National Academy of Inventors, Fellow of the Institute of Electrical and Electronics Engineers, and Fellow of the Institution of Engineering and Technology. He was inducted into Georgia Tech's Council of Outstanding Young Engineering Alumni and named one of "The 100 Most Influential Hispanics" by Hispanic Business magazine. Other distinctions include the National Hispanic in Technology Award, Charles E. Perry Visionary Award, Three-Year Patent Award, Orgullo Hispano Award, Hispanic Heritage Award, and Commendation Certificate from former Lieutenant Governor Cruz M. Bustamante of California. His scholarly products include 9 books, 4 book chapters, 42 patents, over 170 articles, over 26 commercial power-chip designs, and over 130 international speaking engagements.