



IEEE GREECE CASS/SSCS  
JOINT CHAPTER

## Invited Lectures

The IEEE Greece CAS/SSC joint Chapter, in the frame of the IEEE Solid State Circuits Society **Distinguished Lecturer Program**, is inviting you in the lectures of:

**Dr. Sven Mattisson\***

Senior expert at Ericsson Research in Lund, Sweden

entitled:

**“From Bluetooth ... to 5G”**

The two lectures (joint events) will be given in:

1) **National Technical University of Athens on Tuesday, October 17, 2017, at: 15:00, in the Multimedia Room at the Network Management Center of NTUA.**

*Information:* Prof. Paul Sotiriadis, tel. 2107721482, [pps@ieee.org](mailto:pps@ieee.org)

2) **Aristotle University of Thessaloniki on Wednesday, October 18, 2017, at: 11:30, in the Amphitheater III of KEDEA.**

*Information:* Prof. Alkis Hatzopoulos, tel. 2310-996305, 2310-996221, [alkis@eng.auth.gr](mailto:alkis@eng.auth.gr)

*(There will be live webcasting and recording of the event on October 18, at the link:  
<http://www.auth.gr/video/24549>)*

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

# “From Bluetooth ... to 5G”

by

**Dr. Sven Mattisson**

Senior expert at Ericsson Research in Lund, Sweden

**Abstract:** The Internet of Everything, or the Networked Society, will require a diverse set of communications means and in particular wireless links with high speed as well as low-rate and low-power radios. The initial development of Bluetooth also addressed the latter and an overview of the Bluetooth radio design ideas is given. Fundamental limits of radio performance parameters, e.g. power consumption and dynamic range, and how they relate to circuit design are reviewed. The presentation closes with an overview of what 5G will bring in terms of requirements and possibilities.

**Dr. Sven Mattisson** received his PhD in Applied Micro Electronics from Lund University in 1986. From 1987 through 1994 he was an associate professor in Applied Micro Electronics in Lund where his research was focused on circuit simulation and analog ASIC design. In 1995 he joined Ericsson in Lund to work on cellular handset development. Presently he is with Ericsson Research in Lund, where he holds a position as senior expert in analog system design. Since 1996 he is also an adjunct professor at Lund University. Dr. Mattisson is a coinventor of Bluetooth and has been serving as technical program committee member for the International Solid-State Circuits Conference and the European Solid-State Circuits Conference. Presently he is working on 5G radio circuits.