



University of Pavia
Ph.D. School in Microelectronics

SEMINAR

Integrated Circuits Research for cIOT and Wearable Devices at ETH Zurich

Prof. Qiuting Huang
ETH Zurich

2016 November 21st h. 12:00
Seminar Room (ex Elettronica) – D Floor

With growth in smartphone shipment slowing down to single digits, the semiconductor industry is looking to the next big thing. Cellular internet of things is believed to be the source of the next 20 billion connected devices and recent standards prescribe cellular communication devices that will be low cost, low power and have extended coverage ten times beyond what is available today.

Many possible applications have been anticipated for such devices, one of which are wearable and implantable devices for fitness, well-being and, indeed, medical monitoring, where both high degree of integration and versatility of functionalities are expected.

This talk will give an overview of some of the on-going integrated circuit design work related to wearable/implantable medical devices and the cellular internet of things (cIOT) at the integrated systems laboratory, Swiss Federal Institute of Technology (ETH), Zurich, Switzerland

Bio: Prof. Qiuting Huang is a full professor and head of the Integrated Systems Laboratory, Swiss Federal Institute of Technology (ETH), Zurich, and an IEEE Fellow. Prof. Huang's research interests span RF, analog, mixed analog-digital as well as digital application specific integrated circuits and systems, with an emphasis on wireless communications and biomedical applications in recent years. He has published widely on those topics in leading solid-state circuits conferences and journals. He is a member of the technical program committee of the European Solid-State Circuits Conference (ESSCIRC). He also served on the technical program and executive committees of the International Solid-State Circuits Conference (ISSCC) between 2000 and 2010. He was the technical program chair for the 2016 ESSCIRC in Lausanne, Switzerland.

Organizer

Prof. Rinaldo Castello

Ph.D. Coordinator

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The seminar will take place in English
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