



University of Pavia

Ph.D. School in Electronics, Computer Science  
and Electrical Engineering

Ph.D. School of Microelectronics

## SEMINAR ANNOUNCEMENT

# Internet-of-Things: the Challenging and the Future Trends

***Prof. Jianguo Ma***

Tianjin University, Tianjin, China

**Monday, February 8, 2016, 14:00**

Aula Seminari ex Dipartimento di Elettronica (floor D)

**Abstract** – The talk begins with the hot topic of Internet-of-things (IoT) together with the confused definition of IoT, and the IoT has been introduced as the results of the informationization. The definition of IoT will be given with the differences from the RFID/Wireless-sensing-networks/Internet. We define IoT as TO LET THE THING TALK! The key characteristics of IoT will be discussed followed by the key challenges of IoT. From application point of view, IoT has those principles: Prediction, Protection, and Prevention. The privacy issues for IoT will be also discussed.

**Biography** – Jianguo Ma received the B. Sc. degree from Lanzhou University, Lanzhou, China, in 1982, and doctoral degree in engineering from Duisburg University, Duisburg, Germany. He was with Technical University of Nova Scotia (TUNS), Halifax, NS, Canada from April 1996 to September 1997 as a postdoctoral fellow. He was with Nanyang Technological University (NTU), Singapore, from October 1997 to November 2005 as a faculty member, where he was also the founding director of the Center for Integrated Circuits and Systems, NTU. From December 2005 to Oct. 2009, he was with University of Electronic Science and Technology of China (UESTC), Chengdu, China. He is the Technical Director for Tianjin IC Design Center since Nov 2008 concurrently. His research interests are Microwave Electronics; Microwave Electronics and RFIC Applications; Microwave and THz Microelectronic Systems; as well as Industrial Internet-of-Things. In these areas, he has published 300 technical papers in peer-reviewed journals and conferences, 7 U.S. patents granted and 40 filed/granted China patents, and 4 books. Dr. Ma served as the Associate Editor of IEEE Microwave and Wireless Components Letters from January 2004 to December 2005. Dr. Ma is the Changjiang Professor awarded by the Ministry of Education of China, he is also the Distinguished Young Investigator awarded by National Natural Science Foundation of China. He was the member for IEEE University Program ad hoc Committee (2011~2013).

### **Organizer**

Prof. Maurizio Bozzi

### **Ph.D. Coordinators**

Proff. P. Di Barba, F. Maloberti

The seminar will be held in English

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