

## **Curriculum Silvano Pupolin (1947)**

He received the Laurea degree in Electronic Engineering from the University of Padova, Padova, Italy, in 1970.

Since then he joined the Department of Information Engineering, University of Padova, where he is Full Professor of Electrical Communications.

He was

- Chairman of the Faculty of Electronic Engineering (1990-1994),
- Chairman of the PhD Course in Electronics and Telecommunications Engineering (1991-1997), (2003-04)
- Director of the PhD School in Information Engineering (2004-2007),
- Chairman of the board of the Directors of the PhD Schools of the University of Padova (2005-2007)
- member of the programming and development committee of the University of Padova (1997-2002),
- member of Scientific Committee of the University of Padova (1996-2001),
- member of the budget Committee of the Faculty of Engineering of the University of Padova (2003-2009)
- member of the Board of Governor of the CNIT "Italian National Interuniversity Consortium for Telecommunications" (1996-99), (2004- 2007)
- Director of CNIT (2008 - 2010 )
- Director Dept. Quantum and Radio Communications of CNVR (Consorzio Veneto di Ricerca) (2011- )

He was General Chair of the 9-th, 10-th and 18-th Tyrrhenian International Workshop on Digital Communications devoted to "Broadband Wireless Communications", "Multimedia Communications", and "Wireless Communications", respectively; General Chair of the International Symposium "Wireless Personal Multimedia Communications (WPMC'04)" Abano Terme, Padova , Italy, September 2004.

He spent the summer 1985 at AT&T Bell Laboratories on leave from Padova, doing research on digital radio systems.

He was Principal investigator for research projects entitled "Variable bit rate mobile radio communication systems for multimedia applications", "OFDM Systems with Applications to WLAN Networks", and "MC-CDMA: an air interface for the 4th generation of wireless systems". Also, he was engaged in the FIRB PRIMO Research Project "Reconfigurable platforms for broadband mobile communications".

He has been actively engaged in research on digital communication systems since 1970. The topics covered have been:

- Performance analysis of baseband digital communication systems and fiber optic systems;
- Digital radio communications, with emphasis to the adaptive linearization of the High-Power-Amplifier;
- Spread spectrum communication systems;
- Packet radio networks;
- Design of large reliable communications networks;
- Effects of phase noise and HPA nonlinearities in OFDM systems;
- Variable bit rate mobile radio communications systems;
- 3G mobile radio communications systems (UTRA-FDD e TDD) and beyond 3G (OFDM modulation and MC-CDMA);
- Ad-hoc networks with the use of Bluetooth and WLAN
- Capacity of MIMO system in real operating conditions.

Actually, is actively engaged in researches on broadband mobile communication systems, personal communication systems, MIMO systems and its applications to Brain Computer Interface.