

## ROBERTO PADOVANI

Dr. Roberto Padovani was Executive Vice President and Fellow at Qualcomm Technologies, Inc. when he retired in 2017. He served as the company's Chief Technology Officer from 2002 to 2011.

Dr. Padovani joined Qualcomm in 1986, after two years at M/A-COM Linkabit where he was involved in the design and development of satellite communications systems, secure video systems, and error-correcting coding equipment.

During his tenure at Qualcomm, Dr. Padovani was involved in the research and development of digital communication systems with emphasis on Code Division Multiple Access (CDMA) wireless technology systems. He was involved in the initial design, development, and standardization of IS-95 CDMA systems. His research and inventions in this field have led to the worldwide standardization and commercialization of CDMA technology for second and third-generation cellular systems. He was also responsible for the design and development of CDMA2000 1xEV-DO, an IP-based, high-speed wide-area wireless data technology, a foundational technology that led to the deployment of high-speed data services on third generation wireless networks across the globe. As Chief Technology Officer of the company he was responsible for the research and development team that led the transition from 3G to 4G.

Dr. Padovani holds more than 80 patents on wireless systems. He has published numerous technical papers in the digital communications field and was the co-recipient of the 1991 IEEE Vehicular Technology Society Best Paper Award for a fundamental paper on the capacity of CDMA cellular systems. In 2009 he received the IEEE Eric. E. Sumner Award “for pioneering innovations in wireless communications, particularly to the evolution of CDMA for wireless broadband data,” and in 2016 the IEEE Alexander Graham Bell Medal “For innovations enabling efficient, wideband, wireless access to the Internet, that is central to all third-generation cellular networks.”

In addition, Dr. Padovani has received the Innovators in Telecommunications, 2004 award from the San Diego Telecom Council, and the Executive of the Year, 2006 from the School of Electrical and Computer Engineering at the University of California, San Diego. He was elected to the United States National Academy of Engineering in 2006.

Dr. Padovani received a Laurea degree from the University of Padova, Italy in 1978 and MS and Ph.D. degrees from the University of Massachusetts, Amherst, in 1983 and 1985, respectively, all in electrical and computer engineering. He is an IEEE Fellow and an Affiliate Professor in the Electrical and Computer Engineering Department at the University of California, San Diego.