

Distinguished Service Award Winner 2017

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Prof. Antti Räsänen



Antti Räsänen received the DSc degree in Electrical Engineering from the Helsinki University of Technology, HUT (now Aalto University) in 1981. In 1989, he was appointed Professor of Radio Engineering with HUT, after holding the same position *pro tem* in 1985, 1987–1989. He has been Visiting Scientist and Professor with Five College Radio Astronomy Observatory and University of Massachusetts, Amherst (1978–1981); Chalmers University of Technology (1983); University of California, Berkeley (1984–1985); Jet Propulsion Laboratory and California Institute of Technology (1992–1993); Observatoire de Paris and Université de Paris 6 (2001–2002); Universidad Carlos III de Madrid (2013–2014).

He teaches and supervises research in mm-wave components, antennas, receivers, measurements, etc., at the Aalto University and Millimetre Wave Laboratory of Finland - ESA External Laboratory (MilliLab). He has educated a large number of MSc and PhD students: under his supervision 54 students have received the PhD degree. He has authored or coauthored over 500 peer-reviewed scientific papers and seven books, e.g., *Radio Engineering for Wireless Communication and Sensor Applications* (Artech House 2003) and *Semiconductor Terahertz Technology: Devices and Systems at Room Temperature Operation* (Wiley 2015).

At HUT and Aalto University, Dr. Räsänen led the Radio Laboratory (1987–2007), the Department of Radio Science and Engineering (2008–2016) and the Centre of Smart Radios and Wireless Research, SMARAD (2002–2013). He was member of the Research Council for Natural Sciences and Engineering in the Academy of Finland (1995–1997). He was elected Vice-Rector of HUT for 1997–2000. He has chaired the Board of Directors of MilliLab since 1995.

Dr. Räisänen has served the European Microwave Conference (EuMC) and the European Microwave Association (EuMA) since 1981, when he started as Secretary General of the 12th EuMC held in Helsinki in 1982. Since that, he has served in the TPC of EuMC in most of the years. He was General Chairman of the 22nd EuMC held in Espoo in 1992. He served in the Management Committee of EuMC (1986–88, 1995–99) and chaired the Management Committee in 1993. He also served in the General Assembly of EuMA (2003–2006). He was a member of the Board of Directors of EuMA (2006–2011) and chaired its Awards Committee (2009–2011).

Dr. Räisänen was the founder of the IEEE MTT/AP Chapter in Finland and its first Chair (1987–1992). He has been Conference Chairman of several international mm-wave conferences, e.g., ESA Workshop on Millimetre Wave Techniques and Applications and Global Symposium on Millimeter Waves. He was Associate Editor of the *IEEE Transactions on Microwave Theory and Techniques* (2002–2005).

In 1994, Dr. Räisänen became Fellow of IEEE with citation “*for contribution to and leadership in millimeter-wave receiver technology*” and in 2008 Fellow of the Antenna Measurement Techniques Association, AMTA. In 1998, he received the Finnish Society of Electronics Engineers Award with citation “*for raising education and research of radio engineering in Finland to the top international level*”. In 2001, he became First Class Knight of the White Rose of Finland. He was the recipient of the AMTA Distinguished Achievement Award in 2009. University Carlos III of Madrid awarded him the Chair of Excellence in 2013.