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IEEE Vehicular Technology Society (VTS) Distinguished Lecture

Millimeter Wave Wireless Communications: A Road to 5G

By

Dr. Theodore Rappaport

Polytechnic Institute of New York University, NY, USA

DATE: November 12, 2013
TIME: 18:00-20:00
PLACE: Room EV002.260, Concordia University (refreshments are provided)
1515 Sainte-Catherine West (corner Guy), Montreal
Admission: Free. To ensure a seat, please register by e-mail by contacting Dr. Cyril Iskander (cyril.iskander@ieee.org)

Abstract

Professor Rappaport will present his insights of 5th Generation Wireless Technologies – and the underlying technological hurdles and developments leading up into the millimetre wave domain. He will also present an engrossing picture of the future; highlighting which developments will revolutionize the wireless industry by 2020.



Speaker's Bio

Theodore (Ted) S. Rappaport is the David Lee/Ernst Weber Professor of Electrical and Computer Engineering at the [Polytechnic Institute of New York University](#) (NYU-Poly) and is a professor of computer science at New York University's [Courant Institute of Mathematical Sciences](#). He is also a professor of radiology at the New York University [School of Medicine](#).



Rappaport is the founder and director of [NYU WIRELESS](#), the world's first academic research center to combine wireless engineering, computer science, and medicine. Earlier in his career, he founded two of the world's largest academic wireless research centers: The Wireless Networking and Communications Group ([WNCG](#)) at the University of Texas at Austin in 2002, and the Mobile and Portable Radio Research Group (MPRG), now known as [Wireless@ at Virginia Tech](#), in 1990.

Rappaport is a pioneer in the fields of radio wave propagation for cellular and personal communications, wireless communication system design, and broadband wireless communications circuits and systems at millimeter wave frequencies. His research has influenced many international wireless-standards bodies over three decades, and he and his students invented the technology of site-specific radio frequency (RF) channel modeling and design for wireless network deployment – a technology now used routinely throughout the field of wireless communications.

In 2006, Rappaport was elected to the Board of Governors of the IEEE Communications Society (ComSoc), and to the Board of Governors of the IEEE Vehicular Technology Society (VTS) in 2008 and again in 2011. He is a fellow of the IEEE, is a member of the board of the Marconi Society, and serves on the editorial boards of several academic and technical journals. Rappaport has over 100 U.S. or international patents issued or pending and has authored, co-authored, and co-edited 18 books in the wireless field, including *Wireless Communications: Principles & Practice* (translated into 6 languages), *Principles of Communication Systems Simulation with Wireless Applications*, and *Smart Antennas for Wireless Communications: IS-95 and Third Generation CDMA Applications*. He has received three prize paper awards, including the 1999 Stephen O. Rice Prize Paper Award from the IEEE Communications Society for his work on site-specific propagation.

Rappaport has testified before the U.S. Congress, served as an international consultant for the International Telecommunication Union, consulted for more than 30 major telecommunications firms, and continues to work on many national committees pertaining to communications research and technology policy. He is a highly sought consultant and technical expert. He received BS, MS, and PhD degrees in electrical engineering from Purdue University in 1982, 1984, and 1987, respectively, and is an Outstanding Electrical Engineering Alumnus of his alma mater.