Utilization of Wireless Body Area Channels for Communication and Sensing

Prof. Yang Li (Baylor University, U.S.A.)

Abstract : A wireless body area network (WBAN) is a wireless network of devices that are worn on or implanted in the body, and that communicate with each other and with external devices to track various physiological parameters. In this talk we will discuss different types of on-body wireless propagation channels involved with the WBANimplementation, and the uses of them for power-efficient wireless communications and accurate classifications of human movement patterns. Electromagnetic theory, full-wave simulations and in-situ measurement results will be presented.

Bio : Dr. Yang Li received the B.S. degree in electrical engineering from University of Science and Technology of China, in 2005, and the M.S. and Ph.D. degrees in electrical and computer engineering from The University of Texas at Austin, in 2007 and 2011, respectively.
He is currently an Associate Professor of Electrical and Computer Engineering at Baylor University,