

Broadband Wireless Access for Next-Generation Internet

Talk Abstract

The growth of Internet usage has been increasing at an astounding rate, doubling every year for the past 25 years. More than likely this growth will continue well into the future and at an even faster growth rate, fueled by the availability of low-cost affordable networking cards, modems, broadband services, and pervasive on-line services. Coinciding with the increase in Internet usage is the growth of wireless subscribers that is projected to reach well over 600 million worldwide by the year 2001. While voice communication still dominates current cellular service. Demands for high-speed data access, in particular, for Internet access is driving the launch of new, evolved systems that support data access at up to 200X that of conventional data access speeds. Similar trend is seen in wireless networking with the development of broadband devices capable of operating at speeds up to 54 Mbps, e.g. IEEE 802.11a and HiperLAN. We will undoubtedly see a convergence between wireless and Internet technology soon in the future. This talk presents a survey of wireless access technology for next-generation Internet systems and some future directions in this high-growth area.