

Short course (half-day): **Planar Antennas for Wireless Communications and Their Recent Advances**

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**Course Outline:** Planar antennas, including microstrip and printed antennas, metal-plate antennas, ceramic chip and dielectric resonator antennas, are generally flat in appearance and have a low profile. Such planar antennas have recently found extensive applications in mobile systems (such as 900/1800 MHz bands), wireless local area networks (WLANs, such as 2.4/5.2/5.8 GHz bands), and ultra-wideband (UWB, such as 3.1 ~ 10.6 GHz band) communications. Many innovative planar antennas for related applications such as in the internal mobile phone antennas, base-station antennas, WLAN mobile-unit (laptop, PDA) and access-point antennas, UWB antennas have been reported recently. These recent developments in planar antennas for applications in mobile, WLAN and UWB communications will be addressed. More than 100 related planar antenna designs will be presented in this short course.