
Ph.D. Position in Wireless Propagation in Urban and Foliage Areas

The study of a link between an elevated transmitter/receiver to a ground level receiver/transmitter is of interest for numerous applications. Some of these applications include; the traditional broadcasting system where television and radio frequencies are broadcast from a high point down to the receivers; the cellular system where base station and mobile devices communicates on duplex channels; the air traffic control system where airborne platforms communicates to the control tower; the Global Positioning System, where positioning is obtained through satellite to ground links; the satellite communications, where internet connections, broadcasting and telecommunication are performed through satellite to ground links; the recent development on high altitude platforms for surveillance, data and telecommunications purposes. With the increasing demand and use of elevated platforms to ground links especially within the urban area, the understanding of the channel characteristics at different frequencies becomes very important.

The aim of this project is to model and characterize urban and foliage environment in the tropical region. This will include the statistical study of channel characteristics in different urban and foliage environment under different weather and ducting conditions and during different period of time of day and period of the year. This will allow for a comprehensive set of data to be collected so as to enable a highly reliable channel model to be developed

Research scholarship is for 3. Details and application forms can be found at <http://www.ntu.edu.sg/GradStudies/Research+Programmes/admission/default.htm#Application>.

Interested applicants should send their motivation letter and curriculum vitae (preferably via email) to Assistant Professor LEE Yee Hui <eyhlee@ntu.edu.sg> (other contact info. below).

ABOUT NTU: <http://www.ntu.edu.sg>

Nanyang Technological University (NTU) was ranked 50th globally and 7th in Asia by The Times Higher Education Supplement in a 2004 ranking of the world's best universities. Expanding rapidly on a solid foundation of science and technology, the university is breaking new ground in global education as a comprehensive university.

ABOUT SINGAPORE: <http://www.sg/>

Singapore is a diverse multi-cultural and multi-lingual society. The city offers a very high standard of living at relatively low cost as well as state-of-the-art facilities. Singapore also has excellent connections to all of Asia, with many destinations only a few hours away.