

School of Mathematical and Geospatial Sciences Seminar

Integrity - From Concept to Reality Prof. Wu Chen

Integrity is an important measure for the safety of navigation. Since late 1980's, various GNSS integrity monitoring methods have been proposed. Now, integrity has become an import function for SBAS and GBAS systems. This talk will firstly review different integrity monitoring methods, including RAIM and network based integrity monitoring methods. Then the problems with current integrity monitoring methods will be addressed, such as large false alarm rate for the existing systems and validation issues. Some suggestions are proposed for future research directions on GNSS integrity monitoring.

BIO

Prof. Wu Chen is a professor at Department of Land Surveying and Geoinformatics (LSGI), Hong Kong Polytechnic University. He received his BSc degree from Chinese University of Science and Technology, MSc from the Institute of Geodesy and Geophysics, China, and PhD from University of Newcastle Upon Tyne, UK. He has been actively working on GNSS related research for over 25 years and has been working on a large number of research projects funded by universities, governments, and industries. His main research interests are GNSS applications, GNSS performance evaluation, and system integration. He has published over 200 technical papers in various journals and international conferences. Currently he is deputy director of joint navigation laboratory of Hong Kong Polytechnic University and Nanjing University of Aeronautics and Astronautics,

Date, Day: Friday 10 December

Time: 3:30 pm – 4:30 pm

Venue: Access Grid Room, 8.9.66