



THE HONG KONG  
POLYTECHNIC UNIVERSITY  
香港理工大學



RESEARCH INSTITUTE  
FOR SUSTAINABLE URBAN DEVELOPMENT  
可持續城市發展研究院



DEPARTMENT OF  
LAND SURVEYING AND GEO-INFORMATICS  
土地測量及地理資訊學系



追求科技創新, 構建永續城市  
Innovation Solutions for Sustainable Cities

RISUD/LSGI

Distinguished Lecture

# Introduction to BeiDou Satellite Navigation System

by

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**Time:**  
6:00 p.m. - 7:00 p.m.  
**Registration:** 5:30 p.m.

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Venue:	Room PQ303, 3/F, Mong Man Wai Building (PQ), The Hong Kong Polytechnic University ( <a href="#">Campus map</a> )
Medium:	Mandarin
Registration:	<a href="https://www.polyu.edu.hk/mysurvey/index.php/175887">https://www.polyu.edu.hk/mysurvey/index.php/175887</a> (Registration deadline: 4 December 2017, 12:00 n.n.)
Certificate:	Attendance certificate will be issued to registered participants only
Enquiry:	<a href="mailto:sherri.cheng@polyu.edu.hk">sherri.cheng@polyu.edu.hk</a> / 3400 3407

## Abstract

This presentation will give an overview on the development of Chinese BeiDou Satellite Navigation System. Firstly, the development history of BeiDou system (BDS) is introduced. The features for BeiDou demonstration system (BDS-1) are described. The performance of the regional BeiDou navigation system (BDS-2) is analyzed, including the performance of signal, positioning and timing. The development of ground-based augmented system (GBAS) and space-based augmented system (SBAS) in China are also introduced and analyzed. BeiDou global navigation system is expected based on the demonstration system started from 2013 with five satellites. Some application examples are presented as well.

## Speaker's biography



Professor Yuanxi Yang is a Professor of Geodesy and Navigation at both of Xian Research Institute of Surveying and Mapping and China National Administration of GNSS and Applications (CNAGA). He is currently deputy chief architect of Chinese BeiDou Satellite Navigation System. Professor Yang received his BSc and MSc in Geodesy from Zhengzhou Institute of Surveying and Mapping in 1980 and 1987, and the PhD in Geodesy from Institute of Geodesy and Geophysics, the Chinese Academy of Science, in 1991. He was elected as Academician of Chinese Academy of Sciences in 2007.

He has published two monographs, three coauthored monographs and more than 300 papers. His main research field includes geodetic data processing, navigation and geodetic coordinate system etc.