



# “天地时空”论坛 第10期

中国科学院上海天文台成立60周年暨建台150周年系列活动

## GNSS Remote Sensing Applications

### Abstract

GNSS technologies have been widely applied for various Positioning, Navigation, and Timing (PNT) applications. To achieve better PNT accuracy, various algorithms/models have been developed on to mitigate diversified errors in GNSS ranging measurements, such as ionospheric and tropospheric refractions, multipath, and site related motions. On the other hands, these corrections provide vital information of the media, which can be extracted from GNSS measurements, known as GNSS remote sensing. In this presentation, the general principles of GNSS remote sensing technologies will be reviewed. Particularly, how to use the GNSS reflected signals for deformation monitoring and passive radar will be analyzed in details. Furthermore, GNSS-R technologies can be extended to a wider class of applications using signal of opportunities with diversified radio signal sources.

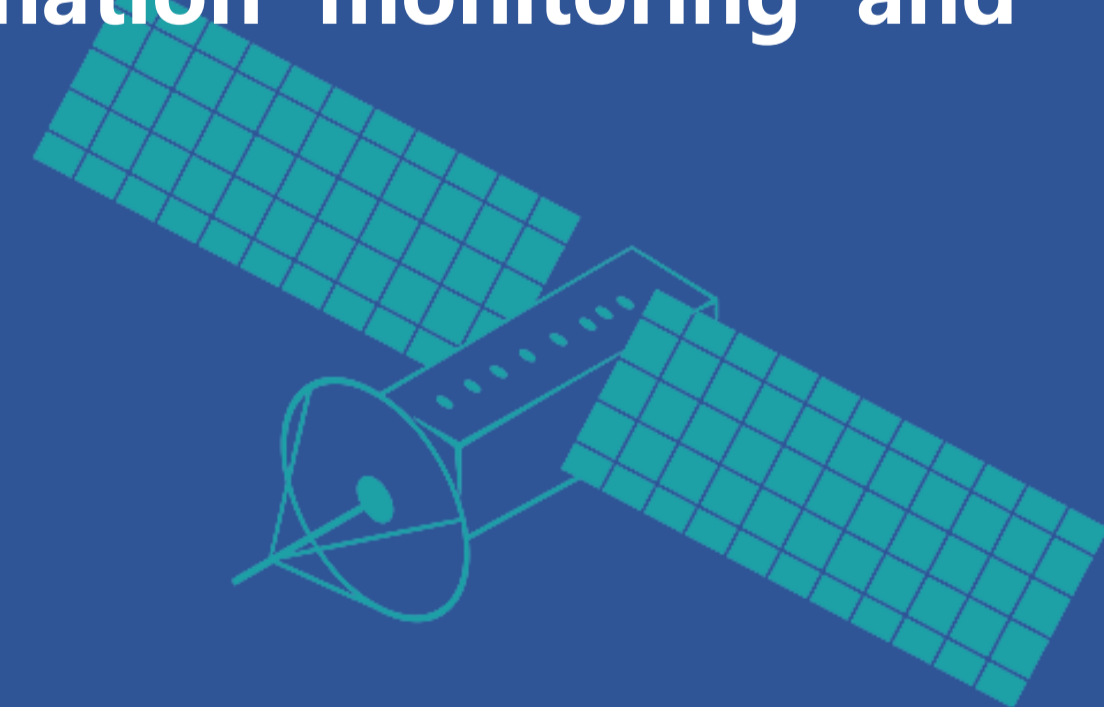


论坛嘉宾  
陈武 教授

Professor Wu Chen is currently professor and head of the department at the Department of Land Surveying and Geoinformatics, the Hong Kong Polytechnic University. He has been working on GNSS related research for more than 30 years. In recent years, his research was mainly concentrated on solving PNT problems related to urban and low latitude region, such seamless navigation and low latitude ionospheric effects on GNSS. In urban PNT studies, he tries to solve some of key problems in urban environment, such as satellite signal shadowing, multipath. Some of his research work has been adopted by the Hong Kong PNT infrastructure. He has also been working on GNSS reflectometry for various applications, including deformation monitoring and pass radar applications.

时间：2022年12月16日（周五） 15:00

zoom会议号：840 9657 0772，密码：5200



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