



CERIES

Tohoku University Electro-Related Departments
Global COE Program

Center of Education and Research for Information Electronics Systems

International Workshop on Advanced Satellite Related Technologies

Date: **December 14th**, 2011

Place: **Conference Room 103**, 1F, South Lecture Room Building,
Electrical, Information and Physics Engineering, Tohoku University

Sponsored by: Global COE Program

“Center of Education and Research for Information Electronics Systems”

16:00 ~ 17:30

Lecturer: **Dr. Weixiao Meng, Professor** (Harbin Institute of Technology)

Title & abstract:

**Research and Development on Satellite Positioning and Navigation in
Harbin Institute of Technology**

Abstract

Communications Research Center of Harbin Institute of Technology (HITCRC) has been advancing in satellite positioning and navigation area for years. Our research work mainly focuses on receiver signal processing technologies, including GPS/GALILEO/Compass receiver, high-sensitivity acquisition, high dynamic tracking, RF interference suppressing, position resolving, IP core design for fast acquisition, GNSS modernization signal design and processing, urban seamless positioning for indoor and outdoor, and GNSS meteorology, etc. HITCRC has completed seven national level GNSS projects, involving algorithm development and hardware realization, and obtained four funding for GNSS research from government in recent 4 years. Some research results have been presented or published on international top conference of ION (Institute of Navigation), China navigation annual meeting and some journals. In this report, we'll introduce the research environment of CRC, as well as our foundations and results of research in GNSS, and the trend of the future work.

17:30 ~