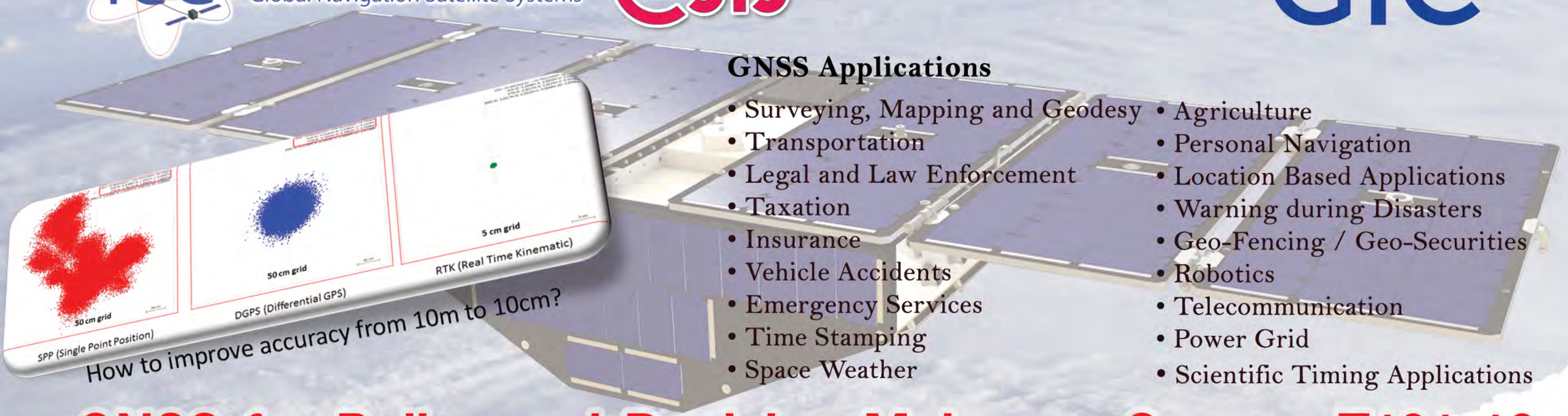




International Committee on
Global Navigation Satellite Systems

CSIS

GIC



GNSS Applications

- Surveying, Mapping and Geodesy
- Transportation
- Legal and Law Enforcement
- Taxation
- Insurance
- Vehicle Accidents
- Emergency Services
- Time Stamping
- Space Weather
- Agriculture
- Personal Navigation
- Location Based Applications
- Warning during Disasters
- Geo-Fencing / Geo-Securities
- Robotics
- Telecommunication
- Power Grid
- Scientific Timing Applications

GNSS for Policy and Decision Makers – Course: T131-18

A Seminar and Workshop Program

Jointly Organized by GIC/AIT, CSIS/UT and ICG

Introduction

The Global Positioning System (GPS) is widely used in almost all systems that require absolute position and time. It is due to its accuracy, availability and reliability. In addition to GPS of the United States, several other systems such as GLObal Navigation Satellite System (GLONASS) of the Russian Federation, the European global navigation system (Galileo) of the European Union, the BeiDou Navigation Satellite System (BDS) of China, the Indian Regional Navigation Satellite System (NavIC), India and the Quasi-Zenith Satellite System (QZSS), Japan are now available. Collectively, they are called GNSS (Global Navigation Satellite System). Today, a GNSS receiver can provide centimeter level accuracy even with a low-cost receiver, if an error correction technique is used. Thus, availability of low-cost and high-accuracy receivers will eventually increase GNSS related applications and its market. In order to keep the pace with these new applications and technological developments, it is necessary to develop human resources and skills.

Geoinformatics Center of Asian Institute of Technology (GIC/AIT) together with the Center for Spatial Information Science of The University of Tokyo (CSIS/UT) and International Committee on GNSS (ICG) are taking initiatives to create awareness on GNSS and its applications in Asia and the Pacific region. This program is a part of this initiative.

Course Schedule : 14 – 16 JAN 2019

The participants may also join the last 2 days of GNSS Training (Course: T151-30) on 17 – 18 JAN 2019. These two days are dedicated for GNSS Field Survey, Data Analysis, and Accuracy Estimation etc. This will provide the participants more field experience on GNSS data logging and processing.

Seminar Place:

**Geoinformatics Center, Asian Institute of Technology,
Pathumthani, Thailand**



Why you should attend this program?

GNSS is not only for Surveying, Mapping and Car Navigation. It's used in many systems where position data are required. For example, analyzing traffic congestion data, monitoring public transport for security and safety, automation in agriculture, dynamic population census, timing services in banking sectors and telecommunication systems, security and safety related applications, law-enforcement, toll-fee charging, aviation as well as space weather.

If you are involved in the policy and decision making level of any infrastructure project or any of the above mentioned working field or even if you would like to learn how GNSS can be utilized in various applications, then you are invited to attend this course in order to enhance your knowledge of GNSS and its applications.

Objectives

This course is designed to give the participants:

- An introduction to GNSS, comprised of GPS, GLONASS, GALILEO, BDS, QZSS and NavIC
- Introduction to GNSS Applications and Application Samples
- An Introduction to GNSS Receivers, Antennas, Base-stations, RTK & PPP Services
- GNSS Survey procedures and achievable accuracies
- Introduction to GNSS related Software
- GNSS Data logging using Android devices for GIS Applications
- Field Survey experience using Low-Cost receiver for High-Accuracy positioning
- General Budget estimation to implement an in-house GNSS system for high accuracy
- Interpreting GNSS Technical Specifications

Benefits

Upon completion of this course, the participants will be able to understand about how a GNSS system works, its applications, survey methods, interpretation of technical specifications, approximate budget and manpower estimation to implement GNSS. The participants will also have half-day GNSS field survey experience using low-cost receiver for high-accuracy

Costs:

The course registration fee is free for all participants. The participants have to bear all the following costs as listed below:

1. Travel costs from the participant's home-town to AIT, Thailand and back to home-town.
2. Hotel accommodation at AIT Center Hotel for the whole seminar/workshop period
3. All expenses for food, insurance, medical emergencies etc.
4. Any other expenses if any not listed here to cover the participant's expenses

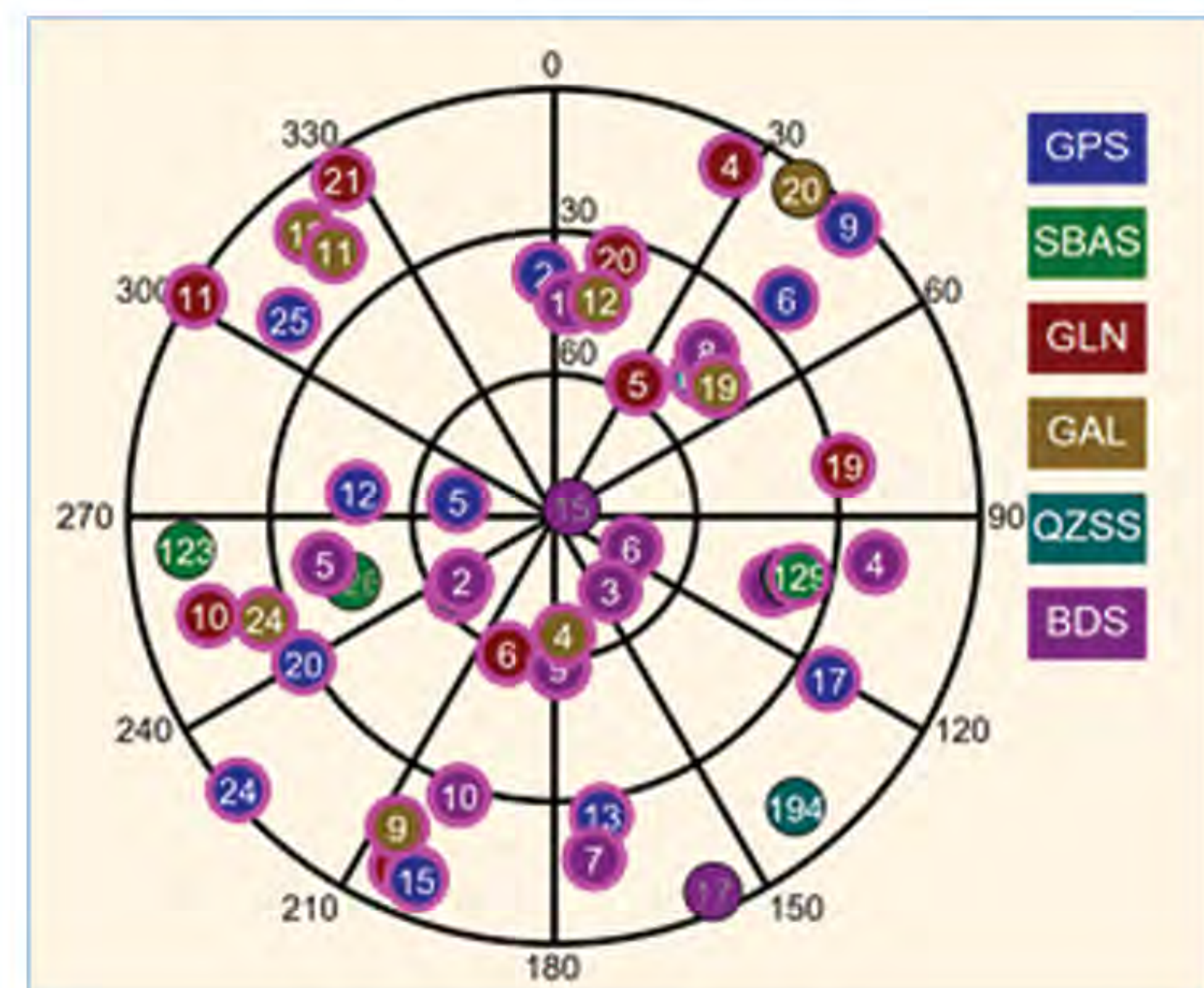
Deadline for Applications : 17th December 2018

Accommodation and Logistics

Participants can stay at the AIT Conference Center with a tariff of US\$ 40-50/night/person. Travel time from the Suvarnabhumi International Airport to AIT is usually one hour. Living cost inside the AIT campus is very reasonable and lunch/dinner cost may vary from 3 USD to 5 USD per meal.

Insurance

Participants are requested to obtain travel and medical insurance before entering in to Thailand.



FIND US

www.geoinfo.ait.asia, www.facebook.com/gicait, www.twitter.com/gicait

For further information please contact

Training Coordinator, Geoinformatics Center, Asian Institute of Technology
P.O.Box 4, Klong Luang, Pathumthani 12120, Thailand
T : +66 2524 5580, E : training.gic@ait.asia

Applications can be downloaded from:

www.geoinfo.ait.asia/downloads/GNSS_Application_131.doc

Past Training and Additional Information:
<http://www.csis.u-tokyo.ac.jp/~dinesh/>