

2009/03/10

URSI Commission C in Japan

21th URSI-C-Japan Chairperson Kenji ITOH

1. Domestic Activities

1.1 workshops

1.1.1 The 3rd scientific workshop presented by the 21st URSI-C in Japan

- (1) Convener: Dr. Yoshiyuki Fujino, National Institute of Communication and Information Technology
- (2) Date/time: 10:00 – 15:30, 24-Apr.-2009
- (3) Venue: Okinawa Subtropical Environment Remote-Sensing Center, Okinawa, Japan
- (4) Registration fee: Free
- (5) Listed attendees: 29 persons
- (6) Local arrangement: Dr. Yoshiyuki Fujino (National Institute of Communication and Information Technology)
- (7) Session title: "Space, Satellite and related technology"

Presentation: 50 min including Q&A for each speaker

- Opening Talk, Dr. Kenji Itoh URSI-C-Japan, Chair
- Plenary Talk "Recent military satellite in the United States," Mr. Sachiyo Shimoseko, NICT
- "WINDS experiment," Mr. Takashi Takahashi, NICT.
- "Satellite/Terrestrial integrated communication system" Dr. Yoshiyuki Fujino, NICT
- "High resolution signal processing technology for synthetic aperture radar"

Mr. Kei Suwa, Mitsubishi Electric Corporation

- "Research of Remote sensing in the NICT Okinawa center," Mr. Hiroshi Hanado, NICT,

(URSI-F talk)

- (8) Reception and Lamp Session at Okinawa Kariyushi Beach Resort Hotel, Okinawa, Japan.

- (9) The steering committee meeting took place from 08:00 to 9:00 on 25-Apr.-2009.

(10) Concluding Remarks

This workshop was entitled "Space, satellite, and related technology" and presented five talks. The progress of the satellite communication technology and observation satellite technology were discussed. These technical filed has common technology for satellite application. In addition, as an excursion, we visited facilities NICT Okinawa Subtropical Environment Remote-Sensing Center and JAXA Okinawa Space communication center. In the lamp session, we deeply discussed future in the semiconductor field.

1.1.2 The 4th scientific workshop presented by the 21st URSI-C in Japan

- (1) Convener: Prof. Jun-ichi Takada, Tokyo Institute of Technology
- (2) Date/time: 11:00 – 16:40, 3-July-2009
- (3) Venue: Nakanoshima Center, Osaka University, Osaka, Japan
- (4) Registration fee: Free
- (5) Listed attendees: 44 persons
- (6) Local arrangement: Prof. Minoru Okada (Nara Advanced Institute of Science and Technology)
- (7) Session title: “Cognitive Radio”

Presentation: 60 min including Q&A for each speaker

- Opening Remarks, Dr. Kenji Itoh URSI-C-Japan, Chair
- “Dynamic Spectrum Access Techniques for Cognitive Radio,”
Prof. Seiichi Sampei, Osaka University
- Plenary Talk "Service Science and Radio Agent," Prof. Shozo Komaki, Osaka University
- “Research Trend of Software Radio and Cognitive Radio,” Dr. Kazuhiro Uehara, NTT
- “IEEE P1900.4 – Standardization of Cognitive Radio Network and Technical Challenges,”
Dr. Hiroshi Harada, NICT.

- (8) Reception and Lamp Session at Hotel Minoh Osaka, Osaka, Japan.
 - “MIMO OTA (over the air) Test,” Prof. Jun-ichi Takada, Tokyo Tech.
 - “Application of ICT for sustainable development of world heritage site of Luang Prabang, Lao PDR,” Prof. Jun-ichi Takada, Tokyo Tech.
- (9) The steering committee meeting took place from 9:00 to 10:00 on 4-July-2009.
- (10) Concluding Remarks

This workshop was entitled “Cognitive radio.” Four presentations covered the technical concept, R&D, standardization and service of heterogeneous and spectrum sharing cognitive radio systems. In the lamp session, wireless terminal evaluation methodology, and the ICT applications in developing countries are discussed.

2. International Activities

- (1) web-link constructions for following international conferences:
 - ISSSE 2010 (International Symposium on Signal System and Electronics) in China
 - AP-RASC 2010 (Asia-Pacific Radio Science Conference) in Japan
 - URSI-GA 2011 (URSI General Assembly) in Turkey
- (2) session proposal for AP-RASC2010