

Activity Report of URSI-F

Reported by Y. Yamaguchi (Chair)

1. Commission meetings in the period of Nov. 2010 – Feb. 2011(For more detail, please see <http://www2.nict.go.jp/pub/ursi-f/>)

(1) No. 549 Meeting

Date: Nov. 18, 2010 Place: Osaka Electro-Communication University (Osaka)

Four papers were presented:

1. Relationships between time delayed diversity and rain area velocity in Ka and Ku band satellite communications links
2. Spatial correlation characteristics of ground rainfall intensity estimated from the data of satellite-borne radar and ground-based rain-gauge and their regional dependence
3. A Study of rainfall effects on X-band airborne radar image
4. Measuring instrument setup and measurements for delay profile using scale model method

(2) No. 550 Meeting

Date: Dec. 17, 2010 Place: National Institute of Information and Communication Technology (Koganei)

Four papers were presented:

1. Adaptive antenna scan for space-borne rain radar: A method to improve radar reflectivity measurement accuracy
2. Fundamental study on polarimetric through-the-wall radar
3. ALOS PALSAR quad-pol image analysis for oriented urban area
4. Development of new X-band airborne SAR, Pi-SAR2, in NICT

(3) No. 551 Meeting

Date: Jan. 20-21, 2011 Place: Saga University (Saga)

This meeting was held under the co-sponsorship of the IEICE Technical Committee on AP and IEEE AP-S Japan Chapter. Six papers relevant to the field of URSI-F were presented:

For more details, please see: <http://www.ieice.org/cs/ap/jpn/>

1. Indoor intrusion detection with asynchronous distributed transmitters
2. Experimental study on indoor intrusion detection with asynchronous distributed transmitters
3. Indoor high-resolution direction finding of terrestrial digital TV signal based on total recording scheme
4. Propagation loss prediction model in residential area for interference evaluation between mobile terminals
5. Characteristics of polarization dispersion of propagation paths in urban mobile communication environment
6. Propagation analysis of interference avoidance based on multi-frequency RTS/CTS cognitive radio

2. Others

IGARSS 2011 will take place in Sendai, Japan during August 1-5, 2011.

Asia-Pacific Synthetic Aperture Radar (APSAR 2011) will be held in Seoul, Korea, which deals with recent radar technology. Date: Sept. 26-30, 2011.

APSAR 2013 will be held in Japan.