

July 2009

**Activity Report of URSI-F**

Reported by Y. Yamaguchi (Chair)

**1. Commission meetings in the period of March 2009 – July 2009**(For more detail, please see <http://www2.nict.go.jp/pub/ursi-f/>)

## (1) No.533 meeting

Date: April 10, 2009 Place: Osaka Prefecture University, Osaka

Five technical papers were presented:

1. A study on characteristics of rain attenuation variation for each rain type in Ka-band satellite communications
2. A preliminary study on the rain observation by using the TRMM rain radar as a radiometer
3. Improvement of Rain/No-Rain classification methods for microwave radiometer observations over the ocean
4. Multipath angular spread estimation from power spatial correlation
5. Time-spatial channel model for next generation mobile communication systems - standardization of IMT-Advanced channel model -

## (2) No. 534 Meeting

Date: May 21-22, 2009 Place: Kumamoto University, Kumamoto

This meeting was held under the co-sponsorship of the IEICE professional groups on AP and IEEE AP-S Fukuoka Chapter. One paper relevant to the field of URSI-F were presented:

1. Ground clutter removal from ground penetrating radar responses using the matching pursuit algorithm

For more details, please see:

[http://www.ieice.org/ken/program/index.php?mode=program&tgs\\_regid=2a35a74c4ba0858fc6b0232e80ed7ae908abb18472a11d9b26860d4088adb1ee&tgid=AP&layout=&lang=](http://www.ieice.org/ken/program/index.php?mode=program&tgs_regid=2a35a74c4ba0858fc6b0232e80ed7ae908abb18472a11d9b26860d4088adb1ee&tgid=AP&layout=&lang=)

## (3) No.535 meeting

Date: June 19, 2009 Place: The University of Electro-Communications, Tokyo

Three technical papers were presented:

1. A study of spectrum sharing based on capacity conservation ratio using external information
2. Time-Spatial propagation model in LOS condition for broadband mobile communication systems
3. Consideration and proposal on how to create propagation environment for MIMO performance evaluation of user terminals

## (4) No.536 meeting

Date: July 8-10, 2009 Place: Otaru City Hall, Hokkaido

This meeting was held under the co-sponsorship of the IEICE professional groups on AP, SAT and IEEE AP-S Japan Chapter. Five papers relevant to the field of URSI-F were presented:

1. A study on the satellite diversity and time delayed diversity techniques in Ku and Ka band satellite communications links
2. Interference measurement experimentation of mobile base stations using an aircraft in satellite-terrestrial integrated mobile communication systems
3. A study on path shadowing model for inter-vehicle communication in line-of-sight street environments

4. A study on MIMO transmission characteristics in outdoor to indoor radio propagation environments
5. A study on keyhole effect of MIMO transmission in outdoor to indoor radio propagation environments

For more details, please see:

[http://www.ieice.org/ken/program/index.php?mode=program&tgs\\_regid=dddc43d0ef8a813e4915f26ae0766cf6b79bea01ece5b7f7e5de100dc478a653&tgid=AP&layout=&lang=](http://www.ieice.org/ken/program/index.php?mode=program&tgs_regid=dddc43d0ef8a813e4915f26ae0766cf6b79bea01ece5b7f7e5de100dc478a653&tgid=AP&layout=&lang=)

**2. Commission meeting to be scheduled**      **<http://www2.nict.go.jp/pub/ursi-f/#meeting>**

No.537 Meeting    Date: Oct. 3, 2009    Place: Toyama city

AP-RASC'10 pre-event = Open symposium of URSI Japan ?

3 Special Lectures are planned (Dr. Yoji Furuhamas, Prof. Yoshio Hosoya, Prof. Motoyuki Sato)

**3. Others**

IGARSS 2011 will be held in Sendai, Japan. The financial support proposal to Science Council of Japan has accepted.