

Activity Report of URSI-F

April 15, 2019

Reported by Motoyuki Sato (Chair)

1. Commission meetings in the period of July 2018- March 2019

March 7, 2019 NTT Yokosuka R&D center

5 committee members attended

Schedule of meetings in FY 2019

Dissuasion and decision of the organization of the executive committee

Discussion on editing the URSI Centenary Book

2. Meetings(For more detail, please see <http://ursi-f.nict.go.jp/>)

(1) No. 627 Meeting September 7, 2018, Osaka Electro-communication University Neyagawa, Osaka

- [1] 150MHz~5GHz Outdoor-to-Indoor Propagation Loss Depending on the Distance from a Window for Interference Between the Indoor Base Stations
- [2] Relationship between Ground Wind Velocity around the Earth Station and Rain Attenuation Observation at 3 Locations in Ku-Band Satellite Communications Link
- [3] Yearly Variation of Up and Down Link Rain Attenuation Characteristics of Ku-Band Satellite Communications in the Tropical Region

(2) No.628 Meeting 18 October (Okayama University)

This meeting was co-sponsored by IEICE Technical Committee on AP and IEEE AP-S Tokyo Chapter.

URSI-F Special Lecture

- [1] Studies on Radio wave Propagation and Remote Sensing -Experiencing both Research Fields- Yasuyuki Maekawa (Osaka Electro-Communication University)

(3) No.629 Meeting November 8, 2018, Tohoku University Tokyo Satellite

- [1] Examination of propagation loss prediction method in urban area
- - Examination in propagation prediction contest - -
- [2] How accurately can the simple scattering model explain the practical time-spatial propagation characteristics in mobile communication?

(4) No. 630 Meeting December 7, 2018, NICT, Koganei, Tokyo

- [1] Disaster Monitoring of Hokkaido- Iburi-Tobu Earthquake 2018 Using ALOS2 Quad Pol Data
- [2] Experimental study on Polarimetric-HoloSAR
- [3] Throughput Measurement to Evaluate Performance of Downlink Multi-User MIMO in IEEE 802.11ac Wireless LAN in an Indoor Office Environment
- [4] Proposal of APS compensation by Polarimetric GB-SAR

(5) No.631 Meeting, 18 January 2019, Toyota Automobile Museum

This meeting was co-sponsored by IEICE Technical Committee on AP and IEEE AP-S Nagoya Chapter.

- [1] Study on Characteristics of Arrival Angular Spread at High Microwave-band
- [2] Basic Study on Propagation Characteristics for Indoor Industrial Scenario
- [3] Path Loss Prediction of Multiple Human Body Shadowing in an Indoor Environment Considering Reflection wave from ceiling

(6) No.632 Meeting, March 7, NTT Yokosuka R&D center

- [1] Long-term statistics of maximum rainfall in Japan based on statistics of extremes
- [2] Atmospheric phase screen compensation method under spatially heterogeneous atmospheric conditions by means of fully polarimetric information for precise landslide monitoring by GB-SAR

Special session for Memorial of Prof. Akio Sato

- [1] EM Propagation and Prof. Akio Sato Naoki Kita (NTT)
- [2] With the Tutor of EM propagation Prof. Akio Sato Teruaki Yoshida (Hiroshima City University)

3. Others