

July 19, 2015

Activity Report of URSI-F

Reported by Y. Maekawa (Chair)

1. Commission meetings in the period of April – June 2015(For more detail, please see <http://ursi-f.nict.go.jp/>)

(1) No. 593 Meeting

Date: April 17, 2015

Place: Tokyo Institute of Technology, Ookayama Campus (Tokyo)

Two papers were presented:

1. Millimeter Wave Double Directional Channel Sounder and Directional Characteristics of Indoor Channel Mobile Radio Channel
2. Comparison of Geometry Stochastic Channel Model Cluster Parameters from the Clustering Result of Traditional Method and Proposed Method based on Utilization of Geometrical Parameters

In this meeting, the history and activities of URSI was briefly introduced by Prof. Takada (Tokyo Institute of Technology) and the scope and general information of URSI-JRSM 2015 was also explained.

(2) No. 594 Meeting

Date: May 21-22, 2015

Place: Nara Prefecture Shakai Fukushi Sougou Center (Nara)

This meeting was held under the co-sponsorship of IEICE Technical Committee on AP, and IEEE AP-S Kansai Chapter. Six papers relevant to the field of URSI-F were presented, including the tutorial lecture of Prof. Sasaoka (Doshisha University) and the special talk by Dr.Furuhama (Ex-President of URSI-F):

1. Evaluation of Wireless Area by Ray Tracing Method at 3.5GHz Band -- Effect of Antenna Pattern by Base Station Antenna Height --
2. An accuracy improvement of a path loss model for over-the-corner Vehicle to Vehicle communications (V2V)
3. Information Security at Physical Layer Based on Radio Propagation Characteristics (Tutorial Lecture by Prof. Sasaoka, Doshisha University)
4. Wave Propagation in Non-ionized Media (Special Talk by Dr. Furuham, Ex-President of URSI-F)
5. Estimating Number of Living-bodies Based on Variation of Locations Estimated by MIMO Radar
6. Design of MIMO Downlink System Using Flexible Subarray Construction

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

(3) No. 595 Meeting

Date: June 24, 2015

Place: The University of Electro-Communications (Tokyo)

Four papers were presented:

1. The Latest Results of Earthquake Prediction Research
2. Signal Power Estimation for TVWS with Variable Antenna Height
3. Analysis of 11 GHz Urban Microcell Radio Channel via Parametric Modeling of Wideband Double-Directional Measurement Data
4. Experimental Study to Measure a Radio Path Loss between Wireless LAN Access Point(AP)s Deployed in an Indoor Office Environment
–Deriving an Empirical Formula of the Radio Path Loss between APs from Data Measured by Using Wireless LAN Access Point Cisco CAP3702I for Supplementing Recommendation ITU-R P.1238–

The commission business meeting of URSI-F was held at the same time on that date, and six commission members attended with two of them connected by Skype, satisfying a quorum of the business meeting. There was a discussion on cooperation with other commissions and related societies. Also, the plans of yearly activities of URSI-F were discussed, including URSI-JRSM 2015 and the URSI-F commission meeting in commemoration of 600th, which will be held in this September and December, respectively.

2. Others

Nothing in particular.