IEEE Nagoya Chapter

Midland Student Express 2011 Spring

1. General Information

Date: 27 April, 2011

Venue: Nagoya Ekimae Office for Innovation Hub
Meieki 4-4-38, Nakamura-ku, Nagoya 450-0002, Japan

Sponsors: IEEE AP-S Nagoya Chapter
IEEE MTT-S Nagoya Chapter

Co-Sponsors: IEEE Nagoya Section
IEICE Tokai

Technical Co-Sponsors: Deneikai of Nagoya Institute of Technology

2. Committee

General Chairs

Takashi Ohira	Toyohashi University of Technology
Nobuyoshi Kikuma	Nagoya Institute of Technology

Secretaries

Akimasa Hirata	Nagoya Institute of Technology
Keisuke Noguchi	Kanazawa Institute of Technology
Masahiro Hanazawa	Toyota Central R&D Labs., Inc.

3. Technical Program

Session Chairs: Yuichi Miyaji and Naoki Sakai, Toyohashi University of Technology

Time		
10:10-10:12		**Opening address by Prof. Ohira, Toyohashi University of Technology**
10:12-10:30	S1-1	**Experimental Demonstration of Frequency Conversion from DC to Terahertz waves Using a Transmission Line on an Optically Excited GaAs Substrate** *Tomoki Yamashita, Nagoya Institute of Technology*
10:30-10:48	S1-2	**Fundamental Investigation of Phase Noise Evaluation of Oscillator and Active Q** *Yuki Nakajima, Gifu University*
10:48-11:06	S1-3	**Application of EBG Structure to 3.5-GHz Antenna for Power Absorption Reduction in Human Head** *Ikeuchi Ryo, Nagoya Institute of Technology*
11:06-11:24	S1-4	**Transmission Characteristics of Metamaterial Transmission Line with Extended Constitutive Relationships** *Yoshihiro Kawasaki, Gifu University*
11:24-11:42	S1-5	**Toward a Construction of Testbet Using ESPAR Antenna and USRP for Ad-Hoc Network** *Akito Kimijima, Toyohashi University of Technology*
11:42-12:00	S1-6	**Antenna Design Criteria to Enhance Privacy for Wireless Secret Key Schemes** *Naoki Sakai, Toyohashi University of Technology*
12:00-13:00	Lunch	
13:00-13:18	S2-1	**An Adaptive Physical Carrier Sense in Directional MAC Protocols** *Yuichi Miyaji, Toyohashi University of Technology*
13:18-13:36	S2-2	**Improvement of Design Freedom of Radiation Patterns by Using Narrow Printed Patterns of Microstrip Comb-Line Antennas in Millimeter-Wave Band** *Daiki Kawase, Nagoya Institute of Technology*
13:36-13:54	S2-3	**Trial Manufacturing and Experiments of the Adaptive Antenna Using the Rear Defogger - Broadband Characteristics and Degradation by Resistivity of Wire -** *Noorsaliza Abdullah, Shizuoka University*
13:54-14:12	S2-4	**Development of Primary Radiators to Obtain the Required Radiation Patterns of One-Dimensional Lens Antennas** *Hiroto Nishiwaki, Nagoya Institute of Technology*
14:12-14:30	S2-5	**MMSE Adaptive Array Using Multi-beams for OFDM Transmission** *Shouhei Sasaki, Nagoya Institute of Technology*
14:20-14:30		Break
14:30-14:48	S3-1	**A Phase Synthesis Experiment of DTTB Signals Using 2-element Optically Controlled Array** *Daiki Takeuchi, Meijo University*
14:48-15:06	S3-2	**Performance Improvement of DOA Estimation Using Spatial Smoothing Processing** *Kiyotoshi Sekine, Nagoya Institute of Technology*
15:06-15:24	S3-3	**Radio Source Localization Using DOA-Matrix Method** *Takahiro Hirano, Nagoya Institute of Technology*
15:24-15:42	S3-4	**Azimuthal Characteristics of Ku-Band Satellite Availability During Rain Using State-Transition Matrix** *Takuya Teramoto, Meijo University*

15:42-16:00	S3-5	**DOA Estimation Based on Propagator Method** *Kazuto Sugimoto, Nagoya Institute of Technology*
16:00-16:10		Break
16:10-16:28	S4-1	**DOA Estimation Using Subspace Tracking Methods** *Yosuke Kajimura, Nagoya Institute of Technology*
16:28-16:46	S4-2	**Absorbing Characteristics of Millimeter-wave into the Artificial Magnetic Conductors** *Katsuyuki Tachikawa, Nagoya Institute of Technology*
16:46-17:04	S4-3	**Numerical Evaluation of Induced Field in Human for Wireless Power Transfer System** *Tsuchida Shogo, Nagoya Institute of Technology*
17:04-17:22	S4-4	**Shield Effect on Wireless Power Transfer Using Coupled Resonance** *Junya Kaneda, Nagoya Institute of Technology*
17:22-17:25		**Closing address by Prof. Kikuma, Nagoya Institute of Technology**
18:00		Banquet