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-Sponsor: IEICE Tokai

Technical Co-Sponsors: IEEE Nagoya Section, Deneikai of Nagoya Institute of Technology

2. Committee

General Chairs

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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** *Ryo Ikeuchi, 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** *Naresh Tripathi, 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