IEEE Nagoya Chapter

Midland Student Express 2013 Spring

Event of the students, by the students, for the students

1. ***General Information***

Date: 26 April, 2013

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

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

2. ***Committee***

General Chairs	Iwata Sakagami	University of Toyama
	Koichi Ogawa	University of Toyama
Secretaries	Akio Wakejima	Nagoya Institute of Technology
	Mitoshi Fujimoto	University of Fukui
	Toshikazu Sekine	Gifu University

3. Technical Program

10:10-10:15		**Opening address by I.Sakagami, University of Toyama**
Session 1		Chair:*Akirou Shmada, Toyohashi University of Technology* Co-Chair: *Yuri Kitagawa, Toyohashi University of Technology*
10:15-10:30	S1-1	**DOA Estimation of Desired Signals Using Cyclostationarity and Performance Improvement by Spatial Smoothing Processing** *Naoki Hirose, Nagoya Institute of Technology*
10:30-10:45	S1-2	**A Study on Beamforming of Two-element Broadband Array Antenna for Digital Terrestrial Broadcasting** *Revelli Mario, Nagoya Institute of Technology*
10:45-11:00	S1-3	**A Study on Performance Improvement of 2D-DOA Estimation Using Planar Array Antenna** *Kyohei Takeuchi, Nagoya Institute of Technology*
11:00-11:15	S1-4	**Design of the MIMO Transparent Antenna By Means of Parato Genetic Algorithm for the Smartphone** *Sinduja Pachaikani, Shizuoka University*
11:15-11:30	S1-5	**A Study on Effect of Mutual Coupling and Impedance Matching in MIMO Communications** *Masahiro Mori, Nagoya Institute of Technology*
11:30-11:45	S1-6	**Estimation of external electromagnetic field influence position on the transmission line by measuring the currents at the end of the transmission line** *Ryugo Date, Gifu University*

11:45-12:45	Lunch	
Session 2		Chair: *Yuto Amano, Nagoya Institute of Technology* Co-Chair: *Kyohei Takeuchi, Nagoya Institute of Technology*
12:45-13:00	S2-1	**Prototype RF inverter for 1/10 scale EVER** *Yuri Kitagawa, Toyohashi University of Technology*
13:00-13:15	S2-2	**Electromagnetic Analysis on a Basic Model for Via-Wheel Power Transfer** *Takumi Honda, Toyohashi University of Technology*
13:15-13:30	S2-3	**Power Distribution Method to Two Receivers at a Different Distance from Transmitter in Wireless Power Transfer via Magnetic Resonance Coupling** *Takahiro Nakata, Toyohashi University of Technology*
13:30-13:45	S2-4	**Improvement of the Location Estimation Accuracy on Two Dimensional Multi-hop Wireless Power Transfer** *Shinsuke Ohtake, Toyohashi University of Technology*
13:45-14:00	S2-5	**A Study on Smaller and Thinner Size of Transmitting and Receiving Elements in Wireless Power Transfer with Magnetically Coupled Resonance** *Hisamichi Mori, Nagoya Institute of Technology*
14:00-14:15	S2-6	**Obstacle Detection Method Using Array Antenna for Coupled-resonant Wireless Power Transfer** *Hiroyuki Yamada, Nagoya Institute of Technology*
14:15-14:30	Break	
Session 3		Chair: *Hisamichi Mori, Nagoya Institute of Technology* Co-Chair: *Kun Li, Toyama University*
14:30-14:45	S3-1	**Fast Computation of Temperature Elevation in Head Due to Microwave Exposure** *Syunya Ota, Nagoya Institute of Technology*
14:45-15:00	S3-2	**K-factor Dependent Multipath characterization for BAN-OTA Testing Using a Fading Emulator** *Kun Li, Toyama University*
15:00-15:15	S3-3	**Communication Capacity of Dual K-band and Millimeter-Wave Frequency use During Rain Attenuation** *Naresh Tripathi, Meijo University*
15:15-15:30	S3-4	**Miniaturization of Period of Frequency Selective Surface using Complementary Split Ring Resonator** *Yuto Amano, Nagoya Institute of Technology*
15:30-15:45	S3-5	**Study on array design of slot antenna in substrate integrated waveguide** *Toshinori Araki, Nagoya Institute of Technolog*
15:45-16:00	S3-6	**Study on Beam-Tilting Range in Perpendicular Plane to Feeding Line of Microstrip Comb-Line Antenna** *Daiki Nakazawa, Nagoya Institute of Technology*
16:00-16:05		**Closing address by K.Ogawa, Toyama University**
16:30	Banquet	