



IEEE Nagoya Chapter

Midland Student Express 2013 Autumn

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

1. General Information

Date: 6 December, 2013
 Venue: Kanazawa Institute of Technology
 Bldg. 1, 1st Floor, Room 1.110
 7-1 Ohgigaoka, Nonoichi, Ishikawa
 Sponsors: IEEE AP-S Nagoya Chapter
 IEEE MTT-S Nagoya Chapter
 Technical Co-Sponsors: IEEE Nagoya Section
 IEICE Hokuriku
 Kobokukai of Kanazawa Institute of Technology



2. Committee

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

3. Technical Program

9:25-9:30	Opening address by Iwata Sakagami, Toyama University	
Session 1	(Chair: Kentaro Yamamoto, Toyama University)	
9:30-9:45	S1-1	Electromagnetic Tomography Using Multiple Polarization <i>Naoto Ozawa, Shizuoka University</i>
9:45-10:00	S1-2	Energy Harvesting by using a card-type antenna <i>Hiroshi Miyagoshi, Kanazawa Institute of Technology</i>
Session 2	(Chair: Naoto Ozawa, Shizuoka University)	
10:00-10:15	S2-1	An Examination on the Series Fed Patch Array Antenna <i>Koki Tsutsumi, Shizuoka University</i>
10:15-10:30	S2-2	Modal analysis of a small antenna consisting of two wires <i>Naohiro Ikemoto, Kanazawa Institute of Technology</i>
10:30-10:45	Short Break (1)	

Session 3 (Chair: Naohiro Ikemoto, Kanazawa Institute of Technology)		
10:45-11:00	S3-1	Effects of Fractal on Wireless Power Transmission <i>Hiroki Ishikawa, Shizuoka University</i>
11:00-11:15	S3-2	2.4GHz band high efficient rectenna with the bridge type rectifier <i>Motoki Itoh, Kanazawa Institute of Technology</i>
11:15-11:30	S3-3	Planar dual-band two-way Wilkinson power divider with open- and short-circuited stubs <i>Kentaro Yamamoto, Toyama University</i>
11:30-13:00	Lunch	
Session 4 (Chair: Yasuyuki Takai, Meijo University)		
13:00-13:15	S4-1	A Sequential Automatic Impedance Matching Algorithm to Achieve the Whole-Element Simultaneous Complex Conjugate Condition for a Handset Array Antenna, <i>Kazuki Kaga, Toyama University</i>
13:15-13:30	S4-2	An analysis of non-uniform transmission line using CIP method <i>Kazutaka Ishida, Gifu University</i>
13:30-13:45	S4-3	Performance Evaluation of the Sequential Accumulation Diversity Antenna for Household Appliances Using a Fading Emulator <i>Mitsuo Kurisu, Toyama University</i>
Session 5 (Chair: Kazutaka Ishida, Gifu University)		
13:45-14:00	S5-1	Estimation of External Electromagnetic Field Influence Position on the Transmission Line by Measuring the Currents at the End of the Transmission line(2), <i>Ryugo Date, Gifu University</i>
14:00-14:15	S5-2	Wideband Error Estimation of the Regression Based Channel Capacity Using a Browsing Position MIMO Antenna <i>Ken Kozaka, Toyama University</i>
14:15-14:30	Short break (II)	
Session 6 (Chair: Takeshi Kitamura, Toyama University)		
14:30-14:45	S6-1	Analysis of Digital Wave Propagation in Human Head with Considering Frequency Dependent Permittivity <i>Satoshi Teranishi, Toyama University</i>
14:45-15:00	S6-2	Correlation between Rain Attenuation and Rainfall Intensity of 60-GHz Terrestrial Link <i>Yuki Ogawa, Meijo University</i>
15:00-15:15	S6-3	Active Q-factor Estimation and Phase Noise Measurement on Transmission Line Feedback BJT Oscillators <i>Kento Ichinose, Toyohashi University of Technology</i>
Session 7 (Chair: Kento Ichinose, Toyohashi University of Technology)		
15:15-15:30	S7-1	Novel Theory of Ground Surface Plasma Wave Associated with Earthquakes and its Numerical Verification <i>Kentaro Kamiyama, Toyama University</i>
15:30-15:45	S7-2	A Study of LED Visible Light Parallel Communication with CCD Camera <i>Yasuyuki Takai, Meijo University</i>
Special Session (Chair: Keisuke Noguchi, Kanazawa Institute of Technology)		
16:00-17:00	(Invited talk) Present Status and Perspectives of Wireless Power Transfer Technologies and Applications, <i>Naoki Shinohara, Kyoto University</i>	
17:00-17:05	Closing address by Koichi Ogawa, Toyama University	
17:30-	Banquet	