IEEE Nagoya Chapter

Midland Student Express 2017 Autumn

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

1. ***General Information***

Date: 24 November, 2017

Venue: Kanazawa Institute of Technology
Bldg. 21, 5th Floor
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:	Yoshihiko Kuwahara	Shizuoka University
	Kenji Itoh	Kanazawa Institute of Technology
Secretaries:	Yoshitaka Goto	Kanazawa University
	Masayoshi Sugino	DENSO Corporation

3. Technical Program

9:40-9:45	**Opening address by Kenji Itoh, Kanazawa Institute of Technology**	
Session 1	Chair: _____ (*Kanazawa University*) Co-chair: _____ (*Kanazawa Institute of Technology*)	
9:45-10:00	S1-1	**Study on a high-impedance antenna for sensor network applications -meander dipole antennas-** *Takuro Yabushita, Kanazawa Institute of Technology*
10:00-10:15	S1-2	**High-impedance antennas for three bands** *Takuya Nishio, Kanazawa Institute of Technology*
10:15-10:30	S1-3	**Fundamental Study on a Folded Inverted-L Antenna** *Fumiya Osaki, Kanazawa Institute of Technology*
10:30-10:40	Short Break	
Session 2	Chair: _____ (*Toyama University*) Co-chair: _____ (*Kanazawa University*)	
10:40-10:55	S2-1	**High Efficiency and Broadband Design of Reflectarray Antenna Using Ring Resonator Elements and Measured Results** *Kento Takeshima, Kanazawa Institute of Technology*
10:55-11:10	S2-2	**Feasibility Study of MACKEY type T** *Ken Hirano, Kanazawa Institute of Technology*

11:10-11:25	S2-3	**The 900MHz band low power rectenna** *Ryota Kobuke, Kanazawa Institute of Technology*
11:25-11:40	S2-4	**Implementation of the planar bridge rectifier with diode array** *Justin Han, Kanazawa Institute of Technology*
11:40-12:45	Lunch	
Session 3	Chair: _____ (*Kanazawa Institute of Technology*) Co-chair: _____ (*Nagoya Institute of Technology*)	
12:45-13:00	S3-1	**Analysis of propagation characteristic of MF band radio waves observed by S-310-40 sounding rocket** *Daiki Oka, Toyama Prefectural University*
13:00-13:15	S3-2	**Estimation method of lunar surface permittivity using polarization of natural waves observed by scientific satellite** *Yoshiki Tagawa, Kanazawa University*
13:15-13:30	S3-3	**Measurement system of RF field distribution using Software-defined radio** *Takuya Tsubota, Kanazawa University*
13:30-13:45	S3-4	**Visualization of electromagnetic waves using Mixed Reality technique** *Hirofumi Segawa, Kanazawa University*
13:45-13:55	Short Break	
Session 4	Chair: _____ (*Nagoya Institute of Technology*) Co-chair: _____ (*Kanazawa Institute of Technology*)	
13:55-14:10	S4-1	**A Method of Directivity Measurement for Circular Phased Array 4×4 MIMO Antenna** *Taiki Fukushima, Toyama University*
14:10-14:25	S4-2	**A Prediction Method of Radio Propagation Characteristic in Indoor Enviroments** *Shunya Kitahara, Toyama University*
14:25-14:40	S4-3	**Experiment of Wireless Power Transmission Using Dielectric Resonator Rectenna** *Yuuki Futagi, Toyama University*
14:40-14:50	Short break	
Session 5	Chair: _____ (*Kanazawa Institute of Technology*) Co-chair: _____ (*Toyama University*)	
14:50-15:05	S5-1	**Class E Inverter Protection Circuit Considering Load Fluctuation** *Keisuke Miyaji, Toyohashi University of Technology*
15:05-15:20	S5-2	**A Study of Spiral Antenna Using Folded Structure for Coupled-resonant Wireless Power Transfer** *Kohei Nimura, Nagoya Institute of Technology*
15:20-15:35	S5-3	**A Study of Reduction of SAR for Wireless Power Transfer of Visual Prosthesis Using Shielded Loop** *Yuichi Yamawaki, Nagoya Institute of Technology*
15:35-15:50	S5-4	**A Basic Study on Indoor Wireless Power Transfer Using MIMO Technology** *Shingo Yamaji, Nagoya Institute of Technology*
Special Session (Chair: Keisuke Noguchi, *Kanazawa Institute of Technology*) 電子情報通信学会北陸支部共催　特別講演会		
16:00-17:00	**(招待講演) 人体の電磁界モデリング～安全性評価及び医療への応用～** **平田 晃正 教授 (名古屋工業大学)**	
17:00-17:05	**Closing address by Yoshihiko Kuwahara, Shizuoka University**	
17:30-	Banquet	