





## **IEEE Nagoya Chapter**

# **Midland Student Express 2014 Autumn**

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

#### 1. General Information

Date: 28 November, 2014

Venue: Toyama University, Faculty of Engineering,

Faculty of Engineering Office,

2nd Floor, Meeting Hall,

Gofuku 3190, Toyama-shi, Toyama.

Sponsors: IEEE AP-S Nagoya Chapter

IEEE MTT-S Nagoya Chapter

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#### 2. Committee

General Chairs: Koichi Ogawa Toyama University

Jongsuck Bae Nagoya Institute of Technology

Secretaries: Mitoshi Fujimoto University of Fukui

Toshikazu Sekine Gifu University

#### 3. Technical Program

3. Technical Hogram				
13:00-13:05	Opening address by Koichi Ogawa, Toyama University			
Session 1	(Chair: Masashi Sakai, Gifu University )			
13:05-13:20	S1-1	Analysis of a Top-Loading Monopole Antenna with the Folded Model Kohei Omote, Toyama Unversity		
13:20-13:35	S1-2	Study on miniaturizing factors of folded inverted-L antennas Akihiro Tanaka, Kanazawa Institute of Technology		
13:35-13:50	S1-3	A Patch Turn-style Antenna with an Increased Radiation in the Low Elevation Angles, Yuta Ishisaka, Toyama Unversity		
13:50-14:05	S1-4	A high impedance wideband folded-card type antenna Nao Nambo, Kanazawa Institute of Technology		
14:05-14:15	Short Break (1)			

Session 2	(Chair: Kento Karitani, Toyama Unversity )		
14:15-14:30	S2-1	Rectenna for the Energy Harvesting  Takahide Shinagawa, Kanazawa Institute of Technology	
14:30-14:45	S2-2	Prototype Development of 1 kW Via-Wheel Power Transfer with Bus Tire Pair, Aoyama Mondo, Toyohashi University of Technology	
14:45-15:00	S2-3	Adiabatic principle logic circuits using AC power supply  Masashi Sakai, Gifu University	
15:00-15:20	Short Break (2)		
Session 3	(Chair: Kohei Omote, Toyama Unversity)		
15:20-15:35	S3-1	A formulation of the state equations of the circuit based on the modified nodal analysis, Daisuke Saito, Gifu University	
15:35-15:50	S3-2	Measurement method of S-parameters using a jig with unnecessary couplings, Keisuke Takada, Gifu University	
15:50-16:05	S3-3	A 300GHz-band Detector Array for Food Inspection Xiongbin Yu, Nagoya Institute of Technology	
16:05-16:20	S3-4	Synchronization of LED visible light communication system with low-bit-rate CMOS camera, Naoaki Kawagita, Meijo University	
16:20-16:30	Short break (3)		
Session 4	(Cha	(Chair: Akihiro Tanaka, Kanazawa Institute of Technology )	
16:30-16:45	S4-1	Throughput Measurement of a Smart Antenna Using the Base Station Simulator, Kento Karitani, Toyama University	
16:45-17:00	S4-2	Combined Antenna Evaluation Considering Uplink and Downlink Channels Using a Bilateral OTA Apparatus, <i>Toshihiko Kabeya, Toyama Unversity</i>	
17:00-17:15	S4-3	Automatic tracking robot with switched beam antenna and AM receiver Masashi Izumi, Toyohashi University of Technology	
17:15-17:20	Closing address by Jongsuck Bae, Nagoya Institute of Technology		
17:30-	Banquet		