





IEEE 名古屋支部

(IEEE Nagova Section)

☎影会

IEEE Nagoya Chapter

Midland Student Express 2012 Spring

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

1. General Information

Date: 27 April, 2012

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 Takashi Ohira Toyohashi University of Technology
Nobuyoshi Kikuma Nagoya Institute of Technology
Secretaries Akimasa Hirata Nagoya Institute of Technology
Keisuke Noguchi Kanazawa Institute of Technology

Akio Wakejima Nagoya Institute of Technology

3. Technical Program

Session Chair: Yuichi Miyaji, Toyohashi University of Technology

10:10-10:15		Opening address by T.Ohira, Toyohashi University of Technology
10:15-10:30	S1-1	Maximum Gain Simulation Study on Small Size 5-Element ESPAR Antenna Yasuaki Oda, Toyohashi University of Technology
10:30-10:45	S1-2	Milliimeter-Wave Microstrip-Line-Fed Wideband Aperture Antenna in Multi-Layer Substrate Hiroki Hori, Nagoya Institute of Technology
10:45-11:00	S1-3	Proposal Signal Processing Method to Remove Impact of Direct Wave in Secure Key Agreement System Using ESPAR Antenna Tadafumi Yoshida, Toyohashi University of Technology
11:00-11:15	S1-4	Grating-Lobe Suppression of Slot Antenna Fed by Meander-line Waveguide Ryo Saito, Nagoya Institute of Technology
11:15-11:30	S1-5	Diversity Effect of the Adaptive Antenna Using Bling Algorithm Sindhuja Patchaikani, Shizuoka University
11:30-11:45	S1-6	Wideband Design of Three-Patch Microstrip-to-Waveguide Transition on Single-Layer Substrate in Millimeter-Wave Band Keisuke Murase, Nagoya Institute of Technology
11:45-12:45	Lunch	

12:45-13:00		A Consideration of Arrayed Transmitting Coils in Wireless Power Transfer
	S2-1	with Magnetically Coupled Resonance
		Keishi Miwa, Nagoya Institute of Technology
13:00-13:15		Evaluation of Transmission Efficiency by Using Q Factor for Magnetic
	S2-2	Resonance Wireless Power Transfer with Asymmetric Coupling
		Resonators with Different Size
		Akiro Shimada, Toyohashi University of Technology
13:15-13:30		A Consideration of Spiral Antennas for Coupled-Resonant Wireless Power
	S2-3	Transfer
		Kanako Komatsu, Nagoya Institute of Technology
13:30-13:45	S2-4	Multihop Power Transfer Method to Multiple Receivers using Magnetic
		Resonance
		Yuki Ito, Toyohashi University of Technology
	S2-5	A Consideration of Matching Circuit for Coupled-Resonant Wireless Power
13:45-14:00		Transfer
		Taiki Shinhashi, Nagoya Institute of Technology
14:00-14:15		Break
14:15-14:30		Analytical Expressions of Discretization Error for Finite Difference Time
	S3-1	Domain Method
		Kazutaka Ishida, Gifu University
		Q-Factor Analysis and Experiments on Transmission Line Feedback FET
14:30-14:45	S3-2	Oscillators
		Sonshu Sakihara, Toyohashi University of Technology
		Design of a Frequency Multiplier Using a Schottky-Barrier Diode in a
14:45-15:00	S3-3	Terahertz Region
		Masahiko Mori, Nagoya Institute of Technology
15:00-15:15	S3-4	High Efficiency Rectifier in Electric Power Feed System to Running
		Automobiles through Tires
		Takamitsu Sugiura, Toyohashi University of Technology
		Doppler Terahertz-Wave Generator Using a Tilted Wave Front of a Laser
15:15-15:30	S3-5	Beam with an Optical Diffraction Grating
		Megumi Tsuchiya, Nagoya Institute of Technology
15:30-15:45		Break
15:45-16:00	S4-1	Analysis of Temperature Elevation in Older Individuals for Far-Field
		Exposures
		Tomoki Nomura, Nagoya Institute of Technology
	S4-2	Communication Capacity of a Satellite with Ku-, Ka-Band and
16:00-16:15		Millimeter-Wave Frequencies During Rain Attenuation
		Naresh Tripathi, Meijo University
		A Consideration of Influence of Angular Spread of Multipath Waves in MIMO
16:15-16:30	S4-3	Communication Systems
		Yohei Sekiya, Nagoya Institute of Technology
16:30-16:45		Performance Analysis of MMSE Partially Adaptive Array for Small-Sized
	S4-4	Mobile Terminals
		Masashi Okuno, Nagoya Institute of Technology
16:45-17:00		Performance Improvement of Position Estimation of Scatters in MIMO
	S4-5	Radar
		Tatsuya Hayashi, Nagoya Institute of Technology
17:00-17:05		Closing address by N.Kikuma, Nagoya Institute of Technology
17:30		Banquet