



IEEE Nagoya Chapter

Midland Student Express 2012 Autumn

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

1. General Information

- Date: 9 November, 2011
 Venue: Kanazawa Institute of Technology
 Bldg. 6, 3rd Floore, Room 6.334
 7-1 Ohgigaoka Nonoichi Ishikawa
 Sponsors: IEEE AP-S Nagoya Chapter
 IEEE MTT-S Nagoya Chapter
 Technical Co-Sponsors: IEEE Nagoya Section
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IEEE 名古屋支部
(IEEE Nagoya Section)



2. Committee

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| General Chairs: | Nobuyoshi Kikuma | Nagoya Institute of Technology |
| | Takashi Ohira | Toyohashi University of Technology |
| Secretaries: | Keisuke Noguchi | Kanazawa Institute of Technology |
| | Akimasa Hirata | Nagoya Institute of Technology |
| | Akio Wakejima | Nagoya Institute of Technology |

3. Technical Program

Session Chair: **TBA**

10:25-10:30	Opening address by T.Ohira, Toyohashi University of Technology	
10:30-10:45	S1-1	Maximum input power of the bridge RF rectifier with an impedance transfer <i>Kohei Hosodani, Kanazawa Institute of Technology</i>
10:45-11:00	S1-2	2.4 GHz band bridge RF rectifier <i>Yoshiyuki Shimada, Kanazawa Institute of Technology</i>
11:00-11:15	S1-3	Comparison of loaded-line phase shifters with compensation of imperfect switches <i>Hiroiyuki Kamitani, Kanazawa Institute of Technology</i>
11:15-11:30	S1-4	Prototype 1/10 scaled model EVER <i>Toshihiro Torii, Toyohashi University of Technology</i>
11:30-11:45	S1-5	Equivalent circuit analysis at low frequency for AlGaIn/GaN HEMT <i>Takashi Yamada, Nagoya Institute of Technology</i>
11:45-13:15	Lunch	

Plenary Session: Messages from Industry <i>Organized by Kunitoshi Nishikawa, Toyota Central R&D Labs.</i> <i>Chaired by Takashi Ohira, Toyohashi University of Technology</i>		
13:15-13:45	PS-1	Industrial applications of femto-second fiber laser (Invited) <i>Yuzuru Uehara, Aishin Seiki Co., Ltd.</i>
13:45-14:15	PS-2	Wireless technologies for 'Safe Driving' (Invited) <i>Kazuoki Matsugatani, DENSO Corp.</i>
14:15-14:30	Short break (I)	
14:30-14:45	S2-1	Reflect array antenna using slot type resonant element <i>Souta Shibata, Kanazawa Institute of Technology</i>
14:45-15:00	S2-2	Efficiency of an RFID antenna by using Q-factor <i>Harutaka Kyomura, Kanazawa Institute of Technology</i>
15:00-15:15	S2-3	Study on the feed of the dielectric lens antenna for the millimeter wave collision avoidance radar <i>Shunsuke Sudo, Shizuoka University</i>
15:15-15:30	S2-4	Measurement of 60 GHz rain attenuation characteristics for millimeter-wave satellite communications <i>Tripathi Naresh, Meijo University</i>
15:30-15:45	S2-5	Visualization of the emission by use of the confocal array <i>Yuta Kitagawa, Shizuoka University</i>
15:45-16:00	Short break (II)	
16:00-16:15	S3-1	Basic study on spherical wave absorption by radio absorber <i>Naoya Fukuoka, Kanazawa University</i>
16:15-16:30	S3-2	Near-field Thermal Imaging by passive millimeter-wave microscopy <i>Manabu Ishino, University of Toyama</i>
16:30-16:45	S3-3	Visualization of the current source by use of the inverse problem <i>Kei Hirota, Shizuoka University</i>
16:45-17:00	S3-4	Development of diversity technology using the camera image recognition for LED visible light communications <i>Kento Nakanishi, Meijo University</i>
17:00-17:15	S3-5	Transient analysis of the transmission line by the CIP method <i>Kazutaka Ishida, Gifu University</i>
17:15-17:20	Closing address by N.Kikuma, Nagoya Institute of Technology	
18:00	Banquet	