

KJMW2017 Technical Program list

Remark : in the bracket () is the affiliation of the first author's

11th Dec

10:45-11:00 <Post-dead line paper> (Chair : Koji Yamanaka, Mitsubishi Electric Corp.)
Y.Gui, K. Norishima, M. Motoyoshi, S. Kameda and N. Suematsu (Tohoku University)
“SNR Measurement of direct RF undersampling receiver for 28GHz band satellite communication”

11:00-11:20
Welcome Remarks

<Plenary Talk>
(Chair : Futoshi Kuroki, National Institute of Technology, Kure College)

11:20-12:00
Noriharu Suematsu (Tohoku University)
“Direct Digital RF Technologies for Beyond Nyquist Frequency Range”

12:00-13:00
Lunch

<Measurement Technique> (Chair : Koji Yamanaka, Mitsubishi Electric Corp.)

13:00-13:30
[Invited Talk] Toshiyuki Yakabe (The University of Electro-Communications)
“Microwave Engineering for Students and Young Researchers”

13:30-13:45
Kouji Shibata
(Department of Electrical and Electronic Systems, Hachinohe Institute of Technology)
“A comparative formula without using a short termination for dielectric measurement in liquids via the open-ended cut-off waveguide reflection method”

13:45-14:00
Xiangyu Chen, Toshikazu Sekine and Yasuhiro Takahashi (Gifu University)
“Estimation of Induced Positions of External Electromagnetic Fields by the Waveform at Both Ends of Transmission Line”

14:00-14:15
Coffee Break

<Active Components>
(Chairs : Jae-Sung Rieh, Korea University and Ryo Ishikawa, The University of Electro-Communications)

14:15-14:30
Dang-Duy Ninh, Ha-Van Nam, Chulhun Seo (Soongsil University)
“A Concurrent Dual-Band Class-E Power Amplifier Using Shorted-Stub CRLH TL Structure”

14:30-14:45
Seongjin Jang, Ki-Jin Kim, K. H. Ahn and Changkun Park (Soongsil University)
“Adaptive Bias Circuit with Slope Shaping Technique for Power Amplifier”

14:45-15:00
Jiwon Kim, Jinho Yoo, and Changkun Park (Soongsil University)
“A WLAN RF CMOS Power Amplifier with Capacitance Compensation Method”

15:00-15:15
Jiho Kim, Joseph Jang, Milim Lee and Changkun Park (Soongsil University)
“Design of a 2.4GHz CMOS LC VCO Considering Loss of Passive Devices”

15:15-15:30
Keishi Okamura, Yuki Kawahara, Futoshi Kuroki (National Institute of Technology, Kure College)
“Simple Coaxial Line to Microstrip Line Transition for Multiplication type of Oscillator”

15:30-15:45
Coffee Break

<Microwave Subsystems>

(Chairs : Wonbin Hong, Pohang University of Science and Technology and Toshikazu Sekine, Gifu University)

15:45-16:00

Jun-Seong Kim, Oh-Yun Kwon, Chenglin Cui and Byung-Sung Kim (Sungkyunkwan University)
“24 GHz 1Tx2Rx FMCW Radar Transceiver in 65-nm CMOS Technology”

16:00-16:15

Yunsik Na and Munkyo Seo (Sungkyunkwan University)
“A High-Voltage High-Efficiency UWB Pulse Transmitter”

16:15-16:30

Kazumasa Oyoshi, Ryo Ishikawa, Kazuhiko Honjo (The University of Electro-Communications)
“Ultra -Low-Power GaAs pHEMT Rectifier for Energy Harvesting System”

16:30-16:45

Nam Ha-Van, and Chulhun Seo (Soongsil University)
“Free-Positioning Wireless Power Transfer Using a Cubic-Shaped Transmitter”

16:45-17:00

Seung Hyun Boo, Bomson Lee (Kyung Hee University)
“Method of Solving Angular Misalignment Problems with Phase Control”

17:30-

Banquet

12th Dec

<Passive Devices and Circuits >

(Chairs : Young-Ki Cho, Kyungpook National University, and Ryosuke Suga, Aoyama Gakuin University)

9:00-9:15

Minyoung Yoon, Sangwook Nam (Institute of New Media & Communications Seoul National Univ.)
“Resonance and Group Delay Variation in True-time Delay Line”

9:15-9:30

Yusuke Maeda, Ryosuke Suga, Tomoki Uwano, and Osamu Hashimoto (Aoyama Gakuin University)
“A Study on Balance Characteristics of MSL Balun with Defected Ground Structure”

9:30-9:45

Kyoung-Je Park, Byung-Mun Kim, Young-Ki Cho
(School of Electronics Engineering, Kyungpook National University)
“Miniaturization Design of Waveguide Bandpass Filter Using Modified H-type Resonance Iris”

9:45-10:00

Kensuke Nagano, Tadashi Kawai, and Akira Enokihara (University of Hyogo)
“Broadband Lumped-Element LC-ladder Divider at VHF-band”

10:00-10:15

Yuya Haoka, Tadashi Kawai, and Akira Enokihara (University of Hyogo)
“Broadband Branch-Line Coupler Utilizing Open-Circuited Coupled-Transmission Lines at X-Band”

10:15-10:30

D. Han, C. Lee, H. Park, A. Rehman, M. S. Khattak, J.-P. Kim, and S. Kahng (Incheon National University)
“Waveguide Multi-Mode Filter Synthesis for Satellite/Aerospace/Radars and Investigating Its High-Power Handling Capability”

10:30-10:45

Coffee Break

<Antenna>

(Chairs : Sungtek Kahng, Incheon National University, and Chun-Ping Chen, Kanagawa University)

10:45-11:00

Tomoki Sakogawa and Futoshi Kuroki (National Institute of Technology, Kure College)
“Theoretical and Experimental Investigations of Chipless Sensor for Shaft Vibration of Turbine at UHF band”

11:00-11:15

Jihoon Kim, Kangwook Kim, and Namjoon Yoo (Gwangju Institute of Science and Technology)
“A 60 GHz Comb-line Array Antenna for Robotic Home Appliances”

11:15-11:30

Yuta Watanabe (Tokyo Metropolitan Industrial Technology Research Institute)
“Analysis of Slit Type Chipless RFID Tag Comprising Fractal Structures”

11:30-11:45

Jong Hyup Lee, Hee Jae Jun, and Yong Bae Park (Ajou University)
“Design of a Small VHF Antenna Using a Composite Right/Left Handed Transmission Line”

11:45-12:00

Youngno Youn and Wonbin Hong (Pohang University of Science and Technology)
“Phase Compensation Using Inhomogeneous Reflect Array for 5G Indoor Channel Model”

12:00-13:00

Lunch

<Millimeter-wave and THz Technology>

(Chairs : Chulhun Seo, Soongsil University and Takayuki Tanaka, Saga University)

13:00-13:30

[Invited Talk] Shintaro Hisatake (Gifu University)
“Photonics-based millimeter and terahertz wave visualization techniques and their applications”

13:30-13:45

Ryosuke Ito, Motoki Bessho, Seiya Taketomi, and Jongsuck Bae (Nagoya Institute of Technology)
“Generation of Periodic Terahertz Waves Using a Photoconductive Antenna Array in a Metal Rectangular Waveguide”

13:45-14:00

Kohei Fujiwara, Hidehiko Yamaoka and Takeshi Kobayashi
(Tokyo Metropolitan Industrial Technology Research Institute)
“W-band up-converter using low-loss and simple waveguide-to-microstrip transducer for UWB”

14:00-14:15

Kiryong Song, Jongwon Yun, and Jae-Sung Rieh (Korea University)
“A 300-GHz Quadrature VCO based on InP HBT Technology”

14:15-14:30

Doyoon Kim and Jae-Sung Rieh (School of Electrical Engineering Korea University)
“A D-band Low Noise Amplifier in 65 nm CMOS Technology”

14:30-14:45

Dongkyo Kim, Younghwan Kim, Iljin Lee, Byungho Yook and Sanggeun Jeon (Korea University)
“A D-band Down-converter for Heterodyne Receiver”

14:45-15:00

Coffee Break

<Practical Application of Electro-magnetic waves>

(Chair : Koji Yamanaka, Mitsubishi Electric Corp.)

15:00-15:15

Kousei Kumahara, Futoshi Kuroki, Masanori Eguchi, Takeshi Yamakawa
(National Institute of Technology, Kure College)
“Investigation of Forest on Lands for Landslides Prediction System at 1 MHz”

15:15-15:30

Joseph MFITUMUKIZA, Minwoo Lee, Sangwoo Lee, Incheol Jeong, Jinyoung Kim, Juphil Cho, Jaesang Cha
(Seoul National Univ. of Science and Tech.)
“IRF540N MOSFET based LED Driver HW Module design for IEEE802.15.7m PHY supportive Low Data Rate CamCom”

15:30-15:45

T.A. Khudaybergenov, Vinayagam Mariappan, Minwoo Lee, Miseon Kim, Chiwook Kim, Juphil Cho,
Sangwoon Lee, Sooyoung Chang, Jaesang Cha (Seoul National Univ. of Science and Tech.)
“SK6812 RGB LED Based Wearable Light ID Bracelet Tag Design Using IEEE802.15.7 8-CSK Symbol Point Mapping”