

Advance Program of MJWRT 2017 (Jan. 26 – Jan.27, 2017)

January 26th (Thursday)			
Session 1		Chair: Mohd Tarmizi Ali (MARA Univ. Tech.)	
	8:00-	Registration	
	8:50-9:00	Opening Remarks	
1	9:00-9:15	Evaluation on massive MIMO considering real propagation characteristic at 20 GHz band	Ryotaro Taniguchi, Kentaro Nishimori, Ryochi Kataoka, Kohei Kameyama (Niigata Univ.), Ngochao Tran, Koshiro Kitao, Tetsuro Imai (NTT DOCOMO)
2	9:15-9:30	Prediction Accuracy Using Theoretical Autocorrelation Coefficient of Fading Channel in Line-of-Sight Environment	Naoto Setoguchi, Hiroaki Nakabayashi, Keizo Cho (Chiba Inst. Tech.)
3	9:30-9:45	Simulation of EM Wave using Buffer-Layered Antenna and Orthogonal MIMO Scheme for Groundwater Detection	Fazilla Hasbullah, Idnin Pasya, Mohd Tarmizi Ali (MARA Univ. Tech.)
4	9:45-10:00	Estimation of interference between antennas in short range communication using Signal Flow Graph	ThanhPhan Do, Kiyomichi Araki, Jiro Hirokawa, Makoto Ando (Tokyo Tech)
5	10:00-10:15	Fabrication of a Dual-polarized Corporate-feed Waveguide 32x32-slot Array Antenna with an Orthomode Transducer for 40 GHz Band	Taihei Fujino, Jiro Hirokawa, Makoto Ando (Tokyo Tech.), Katsumori Sasaki, Ichiro Oshima (Denki Kogyo Co., Ltd)
Break(30 min)			
Session2		Chair: Mohd Fais Bin Mansor (UKM)	
7	10:45-11:00	A 28 GHz Series Fed Patch Antenna Array for 5G Applications	Muhammad Kamran Ishfaq, Tharek Abd Rehman (Univ. Tech. Malaysia), Yoshihide Yamada (MJIIT, Univ. Tech. Malaysia), Kunio Sakakibara (Nagoya Institute of Tech.)
8	11:00-11:15	Two-dimensional Traveling-wave Array Design of Z-shaped Edge Shunt Slot Waveguide Array	Koichi Shiotani, Kunio Sakakibara (Nagoya Inst. Tech.), Derek Gray (Xi'an Jiaotong-Liverpool Univ.), Nobuyoshi Kikuma (Nagoya Inst. Tech.)
9	11:15-11:30	Reduction of Reflection Loss on Dielectric Surface by Reflection-phase Control of Frequency Selective Surface	Masamu Chiba, Goro Nomoto, Tomihiro Ikegami, Kunio Sakakibara, Nobuyoshi Kikuma (Nagoya Inst. Tech.)
10	11:30-11:45	Center-fed Traveling-wave Microstrip Array Antenna Using Elliptically-shaped Radiating Elements in Quasi-millimeter-wave Band	Kazumasa Shida, Yuta Mouri, Kunio Sakakibara, Nobuyoshi Kikuma (Nagoya Inst. Tech.)

Lunch Break(75 min)

Session 3

Chair: Jiro Hirokawa (Tokyo Tech.)

11	13:00-13:15	Design of a Matching Circuit using a Post for a Metal Cap with Two Slots for a 60 GHz-band Mobile Module	Haruhisa Hirayama, Jiro Hirokawa, Makoto Ando (Tokyo Tech)
12	13:15-13:30	Approximation of Dielectric Properties using Polynomial Fit in Microwave Tomography	Latifah Mohamed (Univ. Malaysia Perlis), Ono Yuki, Yoshihiko Kuwahara (Shizuoka Univ.)
13	13:30-13:45	Flexible Chipless RFID Based Frequency Selective Surface	*Mohd Ezwan Jalil, Mohamad Kamal A. Rahim, Asmawati Samsuri, Kamilia Kamardin (Univ. Tech. Malaysia)
14	13:45-14:00	Effect of Electron Irradiation on Superconducting Properties of Micro Size Magnesium Oxide Added Bi.Pb-2223 Superconductor	Md Joherul Alam, Mohammad Tariqul Islam (Univ. Kebangsaan Malaysia)
15	14:00-14:15	Design of the Field Distribution of an Antenna Aperture using Gaussian Mode Expansion in order to generate the Uniform Field Intensity in the Non-far Region	Dan Mohri, Ryotaro Ohashi, Makoto Ando, Jiro Hirokawa (Tokyo Tech)

Break(10 min)

Session 4

Chair: Kamilia Kamardin (Univ. Tech. Malaysia)

16	14:25-14:40	Characteristic Mode Analysis for Multi-band Inverted-F Antenna	Naoki Akiyama, Naobumi Michishita (National Defense Academy), Hiroshi Satoh, Yoshio Koyanagi (Panasonic), Hisashi Morishita (National Defense Academy)
17	14:40-14:55	Wide to Multiband Frequency Reconfigurable Antenna	Izni Husna Idris, Mohamad Rijal Hamid, Kamilia Kamardin, Mohamad Kamal A Rahim (Univ. Tech. Malaysia)
18	14:55-15:10	Microstrip Transparent Antenna using AgHT Conductive Film for Wireless Application	Mardhiah Awalludin, Mohd Tarmizi Ali, Mohamad Hafiz Mamat (MARA Univ. Tech.)
19	15:10-15:25	Design of Microstrip Patch Antenna for Millimeter Wave Applications with a focus on 5G	Muhammad Rehan Ashraf (Univ. Malaysia), Tarik Bin Abdul Latef, Yoshihide Yamada (MJIIT, Univ. Tech. Malaysia)
20	15:25-15:40	Optimization of Wireless Power Transfer (WPT) using Resonant Coil	Azuwa Ali, Mohd Najib Yassin, Hamizah Hanum (Univ. Malaysia Perlis)

Break(15 min)

Session 5

Chair: Takuji Arima (Tokyo Agriculture Tech.)

21	15:55-16:10	Flexible Bow-Tie Antenna for on-body Application	Nazirah Othman, Noor Asmawati Samsuri, Mohamad Kamal A. Rahim, Kamilia Kamardin (Univ. Tech. Malaysia)
22	16:10-16:25	Measurement Results of Normal-Mode Helical Antenna in a Stomach Phantom	Rasyidah Hanan Binti Mohd Baharin, Nguyen Thanh Tuan, Yoshihide Yamada (MJIIT, Univ. Tech. Malaysia), Kamilia Binti Kamardin (Univ. Tech. Malaysia), Nguyen Quoc Dinh (Le Quy Don Tech. Univ.), Naobumi Michishita (National Defense Academy)
23	16:25-16:45	Input Resistance Increases of NMHA in a Human Body Condition	Nguyen Thanh Tuan, Rasyidah Hanan Binti Mohd Baharin, Yoshihide Yamada (MJIIT, Univ. Tech. Malaysia), Kamilia Binti Kamardin (Univ. Tech. Malaysia), Nguyen Quoc Dinh (Le Quy Don Tech. Univ.), Naobumi Michishita (National Defense Academy)
24	16:45-17:05	Low Frequency Range Analysis by FDTD Method Incorporating with Transfer Function	Takuji Arima, Keita Asano, Toru Uno (Tokyo Agriculture Tech.)

January 27th (Friday)			
Session 6		Chair: Dr. Tarik Abd. Latef (Univ. Malaya)	
25	9:30-9:45	Metamaterial Structure in millimeter wave frequency range	B. A. F. Esmail, Huda A Majid (Univ. Tun Hussein Onn Malaysia)
26	9:45-10:00	A Magnetolectric Metamaterial Using Split-Ring Resonator for X-Band Application	F. B. Ashraf, Md. Amanath Ullah, T. Alam, M. T. Islam (Univ. Kebangsaan Malaysia)
27	10:00-10:15	Bistatic RCS Simulation for Thin Metasurfaces	Tomohiro Masaki, Naobumi Michishita, Hisashi Morishita (National Defense Academy), Hideki Hada (Fujitsu)
28	10:15-10:30	A Hybrid Prediction Model for Handover in 5G	Safa E. Abdalla, Arfah Ahmad Hsbollah , Paulson E. Numan, Sharifah H. Syed Ariffin (Univ. Tech. Malaysia)
29	10:30-10:45	A Comparative study among the Particle-Swarm Optimization, Gravitational Search Algorithm, and Firefly Algorithm Using Different Benchmark Functions	MN Rahman, MT Islam, S. Kibria, MZ Mahmud (Univ. Kebangsaan Malaysia), M Samsuzzaman (Patuakhali Science Tech. Univ.)
Break (15min)			
Session 7		Chair: Takashi Hikage (Hokkaido Univ.)	
30	11:00-11:15	Cognitive Radio in 5G —A Smart City Perspective—	Eberechukwu Paulson, Mohamad Kamaludin, Sharifah Kamilah, Umar Dauda (Univ. Tech. Malaysia)
31	11:15-11:30	Path Loss Measurement at 6.5 GHz for 5G Communications	Nor Raihan Zulkefly, Tharek Abdul Rahman, Marwan Hadri Azmi, Chee Yen Leow (Univ. Tech. Malaysia)
32	11:30-11:50	A Singly-Fed Wideband Circularly Polarized Hemispherical Dielectric Resonator Antenna using Conformal Open Half-Loop	Mohamad Ismail Sulaiman (Univ. Kuala Lumpur), M. N. M. Yasin (Univ. Malaysia Perlis), Hafiz Basarudin, Aizat Faiz Ramli (Univ. Kuala Lumpur)
33	11:50-12:10	Numerical Estimation of Propagation Characteristics for Smart Gas Meters in Built-up Areas Using Large-Scale FDTD analysis	Takashi Hikage, Kazuki Shindo, Tomokazu Tachibana, Soichi Narahashi, Toshio Nojima (Hokkaido Univ.), Sota Tsuchiya, Takuya Kawata (Tokyo Gas)
34	12:10-12:30	A Dual-Band and Dual-Sense Circularly Polarized Loop Antenna	Mayumi Matsunaga (Ehime Univ.)
Lunch Break(120 min)			
T1	14:30-15:30	Tutorial 1: Basic theory and performance in massive MIMO system	Prof. Kentaro Nishimori (Niigata Univ.)
T2	15:30-16:30	Tutorial 2: 5G-Initiatives and Activities in Malaysia	Prof. Tharek Abd. Rahman (Universiti Teknologi Malaysia)

Break (15 min)

T3	16:45-17:45	Tutorial 3: 5G mobile radio propagation	Dr. Tetsuro Imai (NTT DOCOMO)
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