Wednesday, August 29

**WP1: Recent Progress in Metamaterial and Its Inspired Antennas**

**WP1.1 Meta-surface inspired small antenna**
*MACKEY*

*Shigeru Makino* (Kanazawa Institute of Technology, Japan)

**WP1.2 Coaxially Fed Antennas Using Composite Right/Left-Handed Coaxial Line Resonators**

*Takatsugu Fukushima, Naoumi Michishita and Hisashi Morishita* (National Defense Academy, Japan); *Naoya Fujimoto* (Hitachi Kokusai Electric Inc., Japan)

**WP1.3 Design of a Near-zero Refractive-index Metamaterial Unit for Electromagnetic Cloaking**

*Peng Chen* and *Kai Yang* (University of Electronic Science and Technology of China, P.R. China); *Qiang Chen* (Tohoku University, Japan)

---

**POS1: Poster Session 1**

**POS1.1 A Compact Design of Reconfigurable Dual-Band-Notched UWB antenna**

*Sam Weng Yik* (UTEM, Malaysia); *Zahriladha Zakaria* and *Noor Azwan Shari* (Universiti Teknologi Malaysia Melaka, Malaysia)

**POS1.2 Antenna Design for Accurate Tracking of Military Unmanned Aerial Vehicles**

*Ming-Hsiang Cho* (National Chung-Shan Institute of Science and Technology, Taiwan); *Shu-Yu Lin* (National Taipei University of Technology, Taiwan)

**POS1.3 A Novel Flexible Implantable Antenna at ISM Band**

*Chao Yu, Ying Qi Jiang, Shuo Ji, Shen-Long Chang, Hong-Fei Li* and *Yu-Xing Ding* (School of Electronics and Information Qingdao University, P.R. China); *Kwok Chung* (Qingdao University of Technology, P.R. China); *Wei-Hua Zong* (Qingdao University, P.R. China)

**POS1.4 Traveling-wave Array Design of Microstrip Comb-line Antenna for Arbitrary Linear Polarization Using Rounded Radiating Elements**

*Ryosuke Kojima, Kunio Sakakibara* and *Nobuyoshi Kikuma* (Nagoya Institute of Technology, Japan)

**POS1.5 Bandwidth Comparison of Traveling-wave and Standing-wave Array Designs of Series-fed Microstrip Patch Array Antennas**

*Kengo Ichihashi* (Gakushuin University of Technology, Japan); *Kunio Sakakibara* and *Nobuyoshi Kikuma* (Nagoya Institute of Technology, Japan)

**POS1.6 Kanji Patch Antennas**

*Lingling Wang, Rong Li, Wen Li, Shushuai Xie, Kwok Chung* and *Chunwei Zhang* (Qingdao University of Technology, P.R. China)

**POS1.7 Efficient Antenna Design for Platform-mounted HF Antennas Using Characteristic Mode Theory**

*Kohei Kawabata* and *Hiroki Arai* (Yokohama National University, Japan)

**POS1.8 A Novel Flexible UWB Antenna**

*Shuo Ji, Tian-Nu Yu, Yi-Jia Gao, Ji-Kang Han* and *Chen Liu* (School of Electronics and Information Qingdao University, P.R. China); *Kwok Chung* (Qingdao University of Technology, P.R. China); *Wei-Hua Zong* (Qingdao University, P.R. China)

**POS1.9 Application of Choke element to Dual-Band Reflector Backed Dipole Antenna Loading Meander-Loop Parasitic Element**

*Mamoru Yamaguchi* and *Keizo Cho* (Chiba Institute of Technology, Japan); *Taisuke Ibara* and *Tatsuhiko Yoshihara* (NTT DoCoMo, Inc, Japan)

**POS1.10 A study of meander line polarizer based on equivalent circuits, Japan**

*Hironari Nakajima, Tai Tanaka* and *Michio Takikawa* (Mitsubishi Electric Corporation, Japan); *Naofumi Yoneda* (Mitsubishi Electric Corporation, Japan)

**POS1.11 Fiat Lens Antenna by Genetic Algorithm**

*Kuwahara Yoshikiko* and *Arie Setiawan* (Shizuoka University, Japan)

**POS1.12 Wideband performance of discretized Sanchaki lenses**

*Derek Gray* (Xi’An Jiaotong-Liverpool University, P.R. China); *Nasiba Nikolic* (CSIRO Computational Informatics, Australia)

**POS1.13 VHF Band Radar Cross Section of the Independence Class Littoral Combat Ship**

*Shih-Chung Tuan* (OIT, Taiwan); *Shen Shou Chung* (Air Force Institute of Technology, Gansan, Taiwan (ROC), Taiwan)

**POS1.14 Design for Bandwidth Enhancement of Traveling-wave Microstrip Array Fed from Both Ends**

*Hiroya Tanabe, Kunio Sakakibara* and *Nobuyoshi Kikuma* (Nagoya Institute of Technology, Japan)

**POS1.15 E/O Probe Design for Exposure Assessment in Human Body for 85 kHz EV Charging System**

*Yuichi Nagumo, Keisuke Komori* and *Qiang Chen* (Tohoku University, Japan); *Tanayoshi Chakarothai, Kanako Wake* and *Soichi Watanabe* (National Institute of Information and Communications Technology, Japan)

**POS1.16 Development of localization method corresponding to both polarized waves in a capsule endoscope**

*Daijiro Miyoshi* and *Masaharu Takahashi* (Chiba University, Japan)

**POS1.17 A Dual-Band Decoupling Method for 2 Elements Monopole Antenna by Using a Short Stub and a Branch Element**

*Takuya Miyasaka* and *Masaharu Takahashi* (Chiba University, Japan); *Hiroshi Sato* (Panasonic System Networks, Japan)

**POS1.18 Design of 2x2 microstrip patch array antenna for 5G C-band access point applications**

*Wen-Shan Chen* and *Yung-Chi Lin* (Southern Taiwan University of Science and Technology, Taiwan)

**POS1.19 SLL Reduction of Circular Array by Weighting using Gamma Function**

*Ayano Mikunide* and *Mitsoshi Fujimoto* (University of Fukui, Japan)

**POS1.20 Wide Angle Null Pattern Using TDL Array antenna**

*Kazuki Nishide* and *Mitsoshi Fujimoto* (University of Fukui, Japan)

**POS1.21 A Proposal of Spatial and Temporal Propagation Model for Massive MIMO Based on Measured Propagation Channel**

*Ryotaro Taniguchi* and *Kentarou Nishimori* (Niigata University, Japan); *Koshiro Kitao, Minoru Inomata* and *Tetsuro Imai* (NIT DOCOMO, INC., Japan)
**WP2.1 Advanced Small Antennas and Related Topics**

**Wednesday, August 29, 16:20 - 17:40**

**WP2.1** Compact Multi Antennas with High Isolation Using Dipole and Monopole Modes
Takuya Kakumoto, Yoshitaka Goto and Yoshiya Kasahara (Nagoya University, Japan)

**WP2.2** The R&D of Low-Profile Scanned Array Antenna for Aircraft -The prototype evaluation of 16 elements array antenna to examine the transmission side configuration-
Takuya Okura, Takashi Takahashi, Tomohide Kan, Hironori Tsuchi and Morio Toyoehama (National Institute of Information and Communications Technology, Japan)

**WP2.3** Multi-beam Massive MIMO Using Robust ICA
Shota Ogawa, Kentaro Nishimori and Ryotaro Taniguchi (Niigata University, Japan); Kazuki Maruta (Chiba University, Japan); Takefumi Hiraguri (Nippon Institute of Technology, Japan)

**WP2.4** Performance Improvement of DOA Estimation Using Conjugate Gradient Method with Subtraction Scheme
Toshiya Nasu, Nobuyoshi Kikum and Kunio Sakakibara (Nagoya Institute of Technology, Japan)

**WP2.5** Two-Dimensional Source Localization Using Radio Holography and Virtual Array Extension
Masahiro Inami, Nobuyoshi Kikuma and Kunio Sakakibara (Nagoya Institute of Technology, Japan)

**WP2.6** Impact of Channel Capacity for AOA Estimation in Circular Phased Array 4 x 4 MIMO Antenna
Takiko Fujishima and Kazuhiro Honda (University of Toyama, Japan); Koichi Ogawa (University of Toyama & Faculty of Engineering, Japan)

**WP2.7** Performance Improvement of Drone MIMO Relay Station Using Selection of Drone Placement
Naoki Matsumura, Kentaro Nishimori, Ryotaro Taniguchi and Tsutomu Mitsui (Niigata University, Japan); Takefumi Hiraguri (Nippon Institute of Technology, Japan)

**WP2.8** Angular Spread Estimation of MIMO Radar Using Transmission Beam Diversity
Sota Iwase, Nobuyoshi Kikuma and Kunio Sakakibara (Nagoya Institute of Technology, Japan)

**WP2.9** Distance Estimation between Base Station and User Terminal Using Multi-Carrier Signal and 4th Order Cumulants
Masaya Yamada, Nobuyoshi Kikuma and Kunio Sakakibara (Nagoya Institute of Technology, Japan)

**WP2.10** A Single Balanced Mixer using Compact Branch Line Balun for Ultra-wideband Applications
Mohammed Aljumaei, Noor Azwan Shairi, Zahraldiha Zakaria and Badru Hisham Ahmad (Universiti Teknologi Malaysia Melaka, Malaysia)

**WP2.11** Microwaves mammography using bilateral symmetry of breast tissue
Kuwahara Yoshikiko and Tomoya Osaki (Shizuoka University, Japan)

**WP2.12** A 3-dB Quadrature Coupler Using Broadside Stripes for FM Power Amplifiers
Kangsan Tongta (Suranaree University of Technology, Thailand)

**WP2.13** Measured Performance of Broadband Frequency Selective Surface to Reduce Return Loss
Tomohiro Ikegami, Shota Iino, Kunio Sakakibara and Nobuyoshi Kikuma (Nagoya Institute of Technology, Japan)

**WP2.14** Observation of Composite Periodicity Structure Using POLSAR in Terahertz Waves
Katsuki Arahara, Hiroaki Nakabayasi, Koji Suzuki and Keizo Chu (Chiba Institute of Technology, Japan)

**WP2.15** Design of Spatial Power Combining Circuit Using Taper Waveguide for High-Power Source in Terahertz Band
Kazuki Niwa, Kunio Sakakibara and Nobuyoshi Kikuma (Nagoya Institute of Technology, Japan)

**WP2.16** Design of Partially Parallel-feeding Double-layer Broadband Two-dimensional Waveguide Array Using Wall-surrounded Slot on Stepped Narrow-wall
Haruki Uemura, Kunio Sakakibara and Nobuyoshi Kikuma (Nagoya Institute of Technology, Japan)

**WP2.17** Microwave tomography using transmission line for forward problem
Kuwahara Yoshiko (Shizuoka University, Japan); Maishiba (IEEE Corporation, Japan); Masaya Makiguchi (Shizuoka University, Japan)

**WP2.18** Microwave Absorber by FSS using Paper instead of Dielectric Substrate
Yuika Shinozaki and Hiroyuki Arai (Yokohama National University, Japan)

**WP2.19** The Relation of Scattering Field and Characteristic Mode of PEC Cylinder
Yu Nishikawa (Graduate School of Engineering, Yokohama National University, Japan); Hiroyuki Arai (Yokohama National University, Japan)

**WP2.20** Mode Excitation of Plate by CMA
Kazuki Kamiyama and Hiroyuki Arai (Yokohama National University, Japan)

**WP2.21** Study on clutter suppression on ground penetration radar
Kuwahara Yoshiko and Taiga Suzuki (Shizuoka University, Japan)

**WP2.22** Wheeler Efficiency Eliminating Cavity Resonances Using Cauchy Method
Takumi Kato and Nozomu Iishi (Niigata University, Japan)

**WP2.23** Flexural Strength Estimation of Engineered Cementitious Composites by Using Microwave NDT
Yuanyuan Li, Kuo Chung and Chunwei Zhang (Qingdao University of Technology, P.R. China)

**WP2.24** Reconstruction of Far Field Radiation Pattern from Hemispherical Near Field Measurements
Thomas Basikolo, Kento Nishimori and Hiroyuki Arai (Yokohama National University, Japan); Satoshi Hori and Shinya Iwanaga (Kojima Industries Corporation, Japan)

**WP2.25** Non-Resonant Probe Calibration Using Three-Antenna Method
Atsushi Katsuta and Hiroyuki Arai (Yokohama National University, Japan); Masami Arai (Huawei Technologies Japan K. K., Japan)

**WP2.26** Optimal Design of FSS on Lattice Substrate for Microwave Absorption Application
Yudong Zhao, Yanqiu Yuan, Yuan Pu and Jiangfand Liu (Xian University of Technology, P.R. China); Xi Xiaoli (Xian University of Technology, P.R. China); Di Fan (Xian University of Technology, P.R. China)

**WP2.27** A Hybrid Phase Unwrapping Algorithm Based on Quality-guided and Surface-Fitting
Zhang Yan (Northwestern Polytechnical University, P.R. China); Zijian Xing (Northwestern Polytechnical University of China, P.R. China)

**WP2.28** Study on Land Classification of PolSAR Data by Using Support Vector Machine
Yamato Saito, Hiroaki Yamada and Yoshio Yamaguchi (Niigata University, Japan)
Thursday, August 30

**TA1: Millimeter-wave Antenna Technologies**

**TA1.1 Millimeter-Wave Microstrip-Fed Magneto-Electric Dipole Antennas**
Kwai-Man Luk (City University of Hong Kong, Hong Kong) (Invited)

**TA1.2 Design of a 60GHz-band Metal Cap Antenna with Two Slots Fed by the Post-wall Waveguide**
Jiro Hirokawa and Takashi Tomura (Tokyo Institute of Technology, Japan)

**TA1.3 Phased Array Antenna with Whole-Metal-Cover for MM-Wave 5G Mobile Phone Applications**
He jo Lee, Jihoon Bang, Seongkyu Lee and Jaehoon Choi (Hanyang University, Korea)

Thursday, August 30, 10:40 - 11:40

**POS2: Poster Session 2**

**POS2.1 Influence of Car Body for Car Window Antenna**
Tetsuya Ogawa (Tokyo University of Agriculture and Technology, Japan); Toru Uno (Tokyo University of Agricultural Technology, Japan); Takaji Arima and Yujiro Kushiyama (Tokyo University of Agriculture and Technology, Japan); Osamu Kagaya (ASAHI GLASS CO., LTD., Japan)

**POS2.2 Design of Transparent Patch Antenna for Smallsats**
Kuwahara Yoshiko and Nogi Kazuma (Shizuoka University, Japan)

**POS2.3 Dual-strap Monopole Antenna for USB Dongle Applications**
Wen-Shan Chen, Ming-Han Liang, Ting-Yan Zhuo, Jia-Hao Lin and Jui-Hong Hsu (Southern Taiwan University of Science and Technology, Taiwan)

**POS2.4 Broadbanding of a Microstrip Antenna Using a Sub Excitation under the Patch**
Fumiya Oshiki and Keisuke Neguchi (Kanazawa Institute of Technology, Japan); Taichi Hamabe (Panasonic Corporation Connected Solutions Company, Japan)

**POS2.5 A Printed Inverted-F Antenna for Dual-Band Dual-Sense Circular Polarization**
Kosuke Yonezu and Takafumi Fujimoto (Nagasaki University, Japan)

**POS2.6 Double-layer Waveguide Planar Array Antenna Composed of E-plane Feeding Circuit and Narrow- wall Cavity 2x2-element Sub-arrays**
Haruna Yoko, Kunio Sakakibara and Nobuyoshi Kikuma (Nagoya Institute of Technology, Japan)

**POS2.7 Fluid Switch For Radiation Pattern Reconfigurable Antenna**
Lin Yu Cai and Kin-Fai Tong (University of Technology, P.R. China)

**POS2.8 Analysis of Element Design for Folded Reflectarray**
Jun Gi Jeong and Young Joong Yoon (Yonsei University, Korea)

**POS2.9 A Novel Microstrip Implantable Antenna at ISM Band**
Ying-Qi Jiang, Chen Liu, Xiao-Jiao He and Peng-Fei Xue (School of Electronics and Information Qingdao University, P.R. China); Kwok Chung (Qingdao University of Technology, P.R. China); Wei-Hua Zong (Qingdao University, P.R. China)

**POS2.10 Wide-Stopband Filtering Transformers for Antennas with Flexible Input Impedance**
Shih-Cheng Lin, Jian-Shun Chiu, Yang-Zheng Lin, Jia-Ying Li and Chi-Wen Hsieh (National Chia University, Taiwan)

**POS2.11 Superposition of DRA modes with a monopole**
Derek Gray (Xian Jiaotong-Liverpool University, P.R. China)

**POS2.12 Design and measurement of a microstrip antenna array on a broad wall of a rectangular waveguide for 45-degree linear polarization**
Mitsuo Asami, Sakuyoshi Saito and Yuichi Kiiura (Satsuma University, Japan)

**POS2.13 A dual-polarized FSR backed dipole antenna**
Masato Hasegawa and Keizo Cho (Chiba Institute of Technology, Japan)

**POS2.14 Influence of excitation direction on magnetic field of magnetic material loaded linear solenoid array**
Yoshihiro Nakamura and Keizo Cho (Chiba Institute of Technology, Japan)

**POS2.15 Development of Denture Implanted RFID Tag Antennas**
Junyu Xu, Hiroyasu Sato, Mizuki Motoyoshi, Noriharu Suematsu and Hiroyasu Kanetaka (Tohoku University, Japan); Kazuhiro Yasui (Cosmotechs. Ltd, Japan); Qing Chen (Tohoku University, Japan)

**POS2.16 A compact unidirectional radiated microstrip RFID tag antenna**
Zi Jian Xing (Northwestern Polytechnical University of China, P.R. China); Ling Wang and Zhang Yan (Northwestern Polytechnical University, P.R. China)

**POS2.17 Accuracy Improvement of Distance Estimation based on Received Signal Strength by Active Propagation Control**
Kazunori Ogou, Hisato Iwai and Hideki Sasaoka (Doshisha University, Japan)

**POS2.18 Estimation of received signal at arbitrary remote location considering propagation characteristics**
Yuto Nishisabu, Hisato Iwai and Hideki Sasaoka (Doshisha University, Japan)

**POS2.19 A Computational Study of Indoor-to-Outdoor Propagation in Office Environment at 2.4 GHz and 5.2 GHz Bands**
Kenta Saito and Manabu Oniya (Hokkaido University, Japan)

**POS2.20 Multiple Objects Position Estimation Method using Hyperbola, Ellipse and Circle**
Takuya Iwata and Mitsuji Fujimoto (University of Fukui, Japan); Takayukui Tabata (Tojima Industries Corporation, Japan)

**POS2.21 DOA Estimation Using Cyclostationarity of OFDM Signal**
Tasuku Endo, Mitsuji Fujimoto, Takuya Iwata and Takuro Mamiya (University of Fukui, Japan)

**POS2.22 Fundamental Study on Ambiguity Suppression of Automotive Squint-mode MW-SAR by Using SIMO Radar**
Akira Oshima (Niigata University & Graduate School of Science & Technology, Japan); Hiroyoshi Yamada, Yoshio Yamaguchi and Shogo Muramatsu (Niigata University, Japan)

**POS2.23 Study on Rotational Element Electronically Scanned Array**
Ken Yonokawa, Kiyotaka Suzuki, Norihiro Nakatani, Sachio Yamashita, Yusuke Suzuki, Toru Fukasawa and Masataka Ohtsuka (Mitsubishi Electric Corporation, Japan); Naofumi Yoneda (Mitsubishi Electric Corporation, Japan); Hiroaki Miyashita (Mitsubishi Electric Corporation, Japan)

**POS2.24 Small-Size 5G C-Band/WLAN5.2/5.8GHz MIMO Antennas for Laptop Computer Applications**
Wen-Shan Chen and Yao-Lin Chang (Southern Taiwan University of Science and Technology, Taiwan)

**POS2.25 MIMO Cognitive Radio considering Interference**
Takuro Mamiya and Mitsuji Fujimoto (University of Fukui, Japan)

**POS2.26 Evaluation of Block MSN Algorithm Based on Transmission Rate in Multuser-MIMO System**
Kosuke Yonezu, Nobuyoshi Kikuma and Kunio Sakakibara (Nagoya Institute of Technology, Japan)
POS2.27 A Study on Adaptive Modulation Method for Downlink Multi-beam Massive MIMO
Fumiya Muramatsu, Kentaro Nishimori, Ryotaro Taniguchi and Yuki Yaku (Niigata University, Japan); Takefumi Hiraguri (Nippon Institute of Technology, Japan)

POS2.28 Polarized MIMO Transmission Using Relay In Urban Area
Kazuki Morimoto and Mitoshi Fujimoto (University of Fukui, Japan)

POS2.29 Reduction Effect of Snapshots in DOA Estimation Using Radio Holography by SAGE Algorithm
Yuto Nakajima, Nobuyoshi Kikuma and Kunio Sakakibara (Nagoya Institute of Technology, Japan)

POS2.30 A Measurement Method of MIMO Channel Capacity Considering the Base Station Correlation in 3D MIMO-OTA
Ryoya Furukura and Kaziuhoro Honda (University of Toyama, Japan); Koichi Ogawa (University of Toyama & Faculty of Engineering, Japan)

POS2.31 Effect of Signal-Subspace Dimension on MIMO Radar with Transmission Signal Errors
Hirotaka Kato, Nobuyoshi Kikuma and Kunio Sakakibara (Nagoya Institute of Technology, Japan)

POS2.32 Study on Number of Selected Antennas for BD Based Massive MIMO considering K-factor
Yuki Yaku, Kentaro Nishimori, Yoshiki Shirasaki and Ryotaro Taniguchi (Niigata University, Japan); Yoshiaki Morino and Takefumi Hiraguri (Nippon Institute of Technology, Japan); Nobuyoshi Kikuma (Nagoya Institute of Technology, Japan)

POS2.33 Performance Evaluation of Multi-beam Massive MIMO with Measured 4 by 4 Beam Patterns
Akinori Kudo, Kentaro Nishimori, Ryotaro Taniguchi, Shota Ogawa and Fumiya Muramatsu (Niigata University, Japan); Takefumi Hiraguri (Nippon Institute of Technology, Japan); Jiro Hirokawa (Tokyo Institute of Technology, Japan)

POS2.34 Improvement of DOA Resolution Capability of VESPA by Using Multiple Guiding Sensors
Yuya Sato, Nobuyoshi Kikuma and Kunio Sakakibara (Nagoya Institute of Technology, Japan)

POS2.35 A Compact 9 GHz Microwave Imaging System
Kang-Chun Peng (National Kaohsiung University of Science and Technology, Taiwan); Chiu-Chin Lin (National Kaohsiung University of Science and Technology, Taiwan); Ching-Yuan Hung and Yu-Sung Hsieh (Metal Industries Research & Development Center, Taiwan)

POS2.36 Miniaturized Switchable Bandpass To Matched Bandstop Filter Using Stopped-Impedance Resonator
Mohd Khairi Zahari, Noor Azwan Shairi, Badril Hisham Ahmad and Zahirahda Zakaria (Universiti Teknikal Malaysia Melaka, Malaysia); Peng Wen Wong (Universiti Teknologi PETRONAS, Malaysia)

POS2.37 Concealed Dangerous Object Detection Based on a 77GHz Radar
Zhaoxi Zhang and Xin Di (Fujitsu Research & Development Center, P.R. China); Yi Xu (Fujitsu Research and Development Center Co., Ltd, P.R. China); Jun Tian (Fujitsu R&D Center Co., Ltd., P.R. China)

POS2.38 Via-hole Arrangement for Bandwidth Extension of Planar Microstrip-to-Waveguide Transition
Tuan Thanh Nguyen, Kunio Sakakibara and Nobuyoshi Kikuma (Nagoya Institute of Technology, Japan)

POS2.39 Design of Frequency Selective Surface for Multilayer Dielectric Plate for Loss Reduction over Wide Incident Angle
Shotaro Ino, Tomohiro Ikegami, Kunio Sakakibara and Nobuyoshi Kikuma (Nagoya Institute of Technology, Japan)

POS2.40 Optical Distribution Network for Millimeter Wave Communication System Connected by Radio over Fiber
Naruto Yonemoto and Yasuyuki Kakubari (Electronic Navigation Research Institute, JPAT, Japan)

POS2.41 E-plane Beam-forming Performance of Rotman-lens in Multi-layer Substrate
Yamashita Shugo, Yosuke Otsuka, Kunio Sakakibara and Nobuyoshi Kikuma (Nagoya Institute of Technology, Japan); Kojiro Iwasa (NIPPON PILLAR PACKING CO., LTD., Japan)

POS2.42 High Gain Optical Leaky Wave Antenna by Photonic Bandgap
Hashiguchi Hiroshi, Toshihiko Baba and Hiroyuki Arai (Yokohama National University, Japan)

POS2.43 EMS Characterization of LDO with On-chip Decaps by Using Direct RF Power Injection Method
Yin-Cheng Chang (Chip Implementation Center, National Applied Research Laboratories, Taiwan); Ping-Hi Wang (National Tsing Hua University, Taiwan); Hsu-Feng Hsiao (Chip Implementation Center, National Applied Research Laboratories, Taiwan); Ts-Yeh Lin (Chip Implementation Center, National Applied Research Laboratories, Taiwan); Shuohung Hsu (National Tsinghua University, Taiwan); Mao-Hsu Yen (National Taiwan Ocean University, Taiwan); Ming-Shan Lin (Bureau of Standards, Metrology & Inspection, Taiwan); Da-Chiang Chang (Chip Implementation Center, National Applied Research Laboratories, Taiwan)

POS2.44 Electrostatic-Discharge Behaviour and Analysis of a Power Management IC
Yu-Jen Chen (National Sun Yat-sen University, Taiwan); Shen-Li Chen (National United University, Taiwan)

POS2.45 Analysis of Indoor exclusion zone in nuclear power plant environments
Jong-Eon Park, Sangwoon Youn and Hosung Choo (Hongik University, Korea); Jaeyul Choo (Korea Institute of Nuclear Safety, Korea)

POS2.46 Development of Antenna for Local Exposure of Small Animal in 26.5 GHz Band
Soosuke Higashitaka and Takao Arima (Tokyo University of Agriculture and Technology, Japan); Toru Uno (Tokyo University of Agricultural Technology, Japan); Yasutaka Murakami (Tokyo University of Agriculture and Technology, Japan)

POS2.47 Estimation of SAR Enhancement Due to Implant Metal Exposed to External Electromagnetic Waves
Emi Matsuda, Keita Sakakibara, Takashi Hikage, Manabu Yamamoto and Toshio Nejima (Hokkaido University, Japan)

POS2.48 An Efficient Compact Flexible EM Energy Harvester
Khaled AlJaldun and Kin-Fai Tong (University College London, United Kingdom (Great Britain))

POS2.49 Design of High-impedance Folded Dipole Antennas Consisting of Three Conductors
Takuya Nishio (Kanazawa-Institute of Technology, Japan); Keisuke Noguchi and Kenji Itoh (Kanazawa Institute of Technology, Japan); Jiro Ida (Kanazawa-Institute of Technology, Japan)

POS2.50 Magnetic-Field Resonant Coupling at Mid-Range
Ruey-Bing Hwang (National Chiao Tung University, Taiwan)

POS2.51 Wireless Power Transmission to a Body-Attached Vital Sensor Considering the Human Walking Motion
Yuki Futagi (Toyama University, Japan); Kazuhiro Honda (University of Toyama, Japan); Koichi Ogawa (University of Toyama & Faculty of Engineering, Japan)

POS2.52 Comparison Topologies of Resonant Tank from Class-C Wireless Power Transfer
Tawon Sukma (Kanazawa University, Japan & Indonesian Institute of Sciences, Indonesia)
### Thursday, August 30, 14:40 - 16:00

**TP2: Antennas and Propagation Considering Human Body**

<table>
<thead>
<tr>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>TP2.1 Antennas for Wireless Power Transmission of Capsule Endoscope</strong></td>
<td>Masaharu Takahashi (Chiba University, Japan)</td>
</tr>
<tr>
<td><strong>TP2.2 EMF exposure from 5G equipment at millimeter wave frequencies</strong></td>
<td>Kun Li (National Institute of Information and Communications Technology, Japan); Kensuke Sasaki (NICT, Japan); Soichi Watanabe (National Institute of Information and Communications Technology, Japan)</td>
</tr>
<tr>
<td><strong>TP2.3 A study of helmet antennas</strong></td>
<td>Kazuya Matsubayashi, Naobumi Michishita and Hisashi Morishita (National Defense Academy, Japan)</td>
</tr>
<tr>
<td><strong>TP2.4 Human Monitoring Using MIMO Radar</strong></td>
<td>Naoki Honma, Dai Sasakiwa and Nobuyuki Shiraki (Iwate University, Japan); Takeshi Nakayama and Shoichi Iizuka (Panasonic Corporation, Japan)</td>
</tr>
</tbody>
</table>

### Friday, August 31

#### Friday, August 31, 08:40 - 10:00

**FA1: New Trend in Mobile Propagation**

<table>
<thead>
<tr>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FA1.1 5G System Evaluation Tool</strong></td>
<td>Koshiro Kitao, Ariass Benjebbour, Tetsuro Imai, Yoshihisa Kishiyama, Minoru Inomata and Yukihiko Okumura (NTT DOCOMO, INC., Japan)</td>
</tr>
<tr>
<td><strong>FA1.2 4.9 GHz band Outdoor-to-Indoor Radio Propagation Measurement by an Unmanned Aerial Vehicle</strong></td>
<td>Kentaro Saito, Qiwei Fan, Nopphon Keerativoranan and Jun-ichi Takada (Tokyo Institute of Technology, Japan)</td>
</tr>
<tr>
<td><strong>FA1.3 A Study of User Capacity for Massive MIMO in Urban Street Canyon Environment</strong></td>
<td>Takuya Nitsu and Hiroaki Nakabayashi (Chiba Institute of Technology, Japan)</td>
</tr>
<tr>
<td><strong>FA1.4 Measurements of Path loss Characteristics using Scale Model for 3D Cell Layout</strong></td>
<td>Ken Ikeda (Tokyo Institute of Technology, Japan); Hideki Omote and Teruya Fuji (Softbank Corp., Japan); Kei Sakaguchi (Tokyo Institute of Technology &amp; Fraunhofer HHI, Japan)</td>
</tr>
</tbody>
</table>

#### Friday, August 31, 10:20 - 11:40

**FA2: EMC Related Topics**

<table>
<thead>
<tr>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FA2.1 Crosstalk and Common Mode Noise Reductions in High-Speed Coupled Transmission Lines</strong></td>
<td>Ding-Bing Lin (National Taiwan University of Science and Technology, Taiwan) (Invited)</td>
</tr>
<tr>
<td><strong>FA2.2 Effects of Selecting the Fitting Range for SAR Probe Calibration in Waveguide System</strong></td>
<td>Nozomu Ishii (National Institute of Information and Communications Technology/Niigata University, Japan); Yuto Shinzui, Tomoaki Nagaoka and Soichi Watanabe (National Institute of Information and Communications Technology, Japan)</td>
</tr>
<tr>
<td><strong>FA2.3 A Hybrid MoM/FDTD Method for Exposure Assessment of Wireless Power Transfer Systems</strong></td>
<td>Jerdivisnop Chakarothai, Kanako Wake and Soichi Watanabe (National Institute of Information and Communications Technology, Japan); Takuji Arima (Tokyo University of Agriculture and Technology, Japan); Toru Uno (Tokyo University of Agricultural Technology, Japan)</td>
</tr>
</tbody>
</table>

EDAS at 172.30.0.206 (Mon, 02 Jul 2018 21:24:56 -0400 EDT) (User 188278 using Win7:Chrome 67.0.3624.310 s) Request help