

Technical Program of APMET2016

Venue: Nagasaki University, Nagasaki, Japan

Room: Lecture Room 109 (1F in General Laboratory, Bunkyo-Campus)

Organized by: IEEE Antennas and Propagation Society (AP-S), Fukuoka Chapter

Co-Organized by: IEICE Kyushu Section
Nagasaki University

Assisting Foundation: Murata Science Foundation

Opening Remark

October 21, 2016 (Friday), 08:50–09:00

Session 1 (Chair: *Vakhtang Jandieri*)

October 21, 2016 (Friday), 09:00–10:45

- 09:00–09:35 Advanced Planar Rectenna Technology
.....*Ichihiko Toyoda and Eisuke Nishiyama (Saga University, Japan)*
- 09:35–10:10 Dielectric Resonator Antenna with Filtering Response
.....*Yongmei Pan and Pengfei Hu (South China University of Technology, China)*
- 10:10–10:45 Numerical Examination on Transmission Properties of FBG with GPU Support
Angger Abdul Razak and Mitsuhiro Yokota (University of Miyazaki, Japan)

Session 2 (Chair: *Takeshi Fukusako*)

October 21, 2016 (Friday), 11:00–12:45

- 11:00–11:35 Scattering Properties of Transmission — Resonant Cavities in a Thick Con-
ducting Screen *Young-Ki Cho (Kyungpook National University, Korea)*
- 11:35–12:10 Study on Spectral-Domain Approach Based on Recursive Transition-Matrix
Algorithm for Electromagnetic Scattering from Circular Cylinder Arrays
.....*Koki Watanabe (Fukuoka Institute of Technology, Japan)*
- 12:10–12:45 A Printed Inverted-F Antenna for Wideband Operation
.....*Takafumi Fujimoto (Nagasaki University, Japan)*

Session 3 (Chair: *Zhiqi Meng*)

October 21, 2016 (Friday), 13:45–15:30

- 13:45–14:20 Collocation and Expansion Methods in the Numerical Treatment of Singular
Integral Equations for Light Scattering from a Noble Metal Strip
.....*Akira Matsushima and Yusuke Naori (Kumamoto University, Japan)*
- 14:20–14:55 Double Balanced Multiplier Integrated Polarization Agile Microstrip Antenna
... *Eisuke Nishiyama, Takahiro Ino, and Ichihiko Toyoda (Saga University, Japan)*

- 14:55–15:30 Impedance Chart for Strongly Coupled Transmission Lines
 .. *Dooseok Choi, Wonbin Hong, and Wee Sang Park (Pohang University of Science and Technology, Korea)*

Session 4 (Chair: Sangwook Nam)

October 21, 2016 (Friday), 15:45–17:30

- 15:45–16:20 Successive Estimation Technique in Microwave Tomography for Concrete Diagnosis *Zhiqi Meng (Fukuoka University, Japan)*
- 16:20–16:55 Rigorous Analysis of Electromagnetic Scattering by Periodic Structures of Plasmonic Nanowires *Vakhtang Jandieri (University of Duisburg-Essen, Germany) and Kiyotoshi Yasumoto (Kyushu University, Japan)*
- 16:55–17:30 Bi-directional and Low-Profile Antennas *Takeshi Fukusako (Kumamoto University, Japan), Kittima Lertsakwimarn (Rambhai Barni Rajabhat University, Thailand), and Yuki Ogata (Kumamoto University, Japan)*

Evening Session (Buffet Dinner)

October 21, 2016 (Friday), 18:00–20:00

Place: COOP Cafeteria in Nagasaki University

Session 5 (Chair: Eisuke Nishiyama)

October 22, 2016 (Saturday), 09:00–10:45

- 09:00–09:35 Numerical Analysis of Electromagnetic Pulse Wave Propagation in Nonlinear Dielectric Medium by Constrained Interpolation Profile (CIP) Method
 *Hiroshi Maeda (Fukuoka Institute of Technology, Japan)*
- 09:35–10:10 Nature-Inspired Microstrip Antennas For High-Directivity: Fractals and Genetics
Jaume Anguera (Fractus, Spain and Universitat Ramon LLull, Spain), Jeevani Jayasinghe (Wayamba University of Sri Lanka, Sri Lanka), Disala Udawawala (University of Peradeniya, Sri Lanka), Changhyeong Lee, Dajung Han, Heejoon Park, and Sungtek Kahng (Incheon National University, Korea)
- 10:10–10:45 CMOS Class-E Power Amplifier Module for 5 GHz Application
 *Haruichi Kanaya (Kyushu University, Japan)*

Session 6 (Chair: Hung-chun Chang)

October 22, 2016 (Saturday), 11:00–12:45

- 11:00–11:35 Microstrip Line Fed Inverted L Antenna Printed on Dielectric Substrate
 *Mitsuo Taguchi (Nagasaki University, Japan)*

- 11:35–12:10 Determination of Impedance Parameters among Antennas near Objects
 *Yoon Goo Kim (Hanwha Thales, Korea) and Sangwook Nam (Seoul National University, Korea)*
- 12:10–12:45 Multiple One-Dimensional FDTD Method for Edge/Boadside Coupled Transmission Lines ... *Eng Leong Tan and Zaifeng Yang (Nanyang Technological University, Singapore)*

Session 7 (Chair: Hiroshi Maeda)

October 22, 2016 (Saturday), 13:45–15:30

- 13:45–14:20 On Parametric Representation of UWD Radar Signatures
 *Masahiko Nishimoto (Kumamoto University, Japan)*
- 14:20–14:55 Circuit Applications of Patch Elements
 *Shaoyong Zheng (Sun Yat-sen University, China)*
- 14:55–15:30 Electromagnetic Characteristics of Plasmonic Waveguides with a Dielectric Substrate .. *Hung-chun Chang and Hsuan-Hao Liu, and Hsiang-Peng Chen (National Taiwan University, Taiwan)*

Closing Remark

October 22, 2016 (Saturday), 15:30–15:40