

Technical Program of APMET2008

Opening Remark

October 24, 2008 (Friday), 08:50–09:00

Session 1 (Chair: *H. J. Eom*)

October 24, 2008 (Friday), 09:00–10:40

- 09:00–09:25 DRTM Analysis of Back Scattering from Target over Rough Surface
..... *K. Uchida, J. Honda, H. Fujii, M. Nakagawa (Fukuoka Institute of
Technology, Japan), and K. Y. Yoon (Keimyung University, Korea)*
- 09:25–09:50 Theoretical Analysis of Bit Error Rate of Satellite Communications in Ka-Band
through Atmospheric Turbulence
..... *T. Hanada, K. Fujisaki (Kyushu University, Japan), and M. Tateiba
(Ariake National Colleges of Technology, Japan)*
- 09:50–10:15 Characterization of Parallel Plate Structures and Their Resonance Reduction
by EBG-Formation
..... *S. Kahng (University of Incheon, Korea) and J. P. Kim (KARI in Daejeon,
Korea)*
- 10:15–10:40 Phase Characteristics of Periodic Metal Strips on Dielectric Layer in Parallel
Plate Waveguide
..... *J. R. Cho and D. C. Park (Chungnam National University)*

Session 2 (Chair: *B. Gupta*)

October 24, 2008 (Friday), 11:00–12:15

- 11:00–11:25 Directivity of Radiation from a Localized Source Coupled to Electromagnetic
Crystals
..... *V. Jandieri (Kumamoto University, Japan), K. Yasumoto (Kyushu
University, Japan), and B. Gupta (Jadavpur University, India)*
- 11:25–11:50 Radiation Characteristics of Microstrip Patch Antenna with DNG Material
Substrate *A. Kusunoki (Oita University, Japan)*
- 11:50–12:15 Two Element Phased Dipole Antenna on EBG Ground Plane — Part 2 — ..
..... *M. Taguchi and D. Iwanaka (Nagasaki University, Japan)*

Session 3 (Chair: *M. Taguchi*)

October 24, 2008 (Friday), 13:30–15:10

- 13:30–13:55 Applications of Soft Computing in Antenna Research at Jadavpur University
.. *B. Gupta, S. Chakraborty, P. Mukherjee, S. Biswas, and I. Bhattacharyya
(Jadavpur University, India)*
- 13:55–14:20 Stacked Rectangular Microstrip Antenna with a Shorting Plate and a Helical
Pin for Triple Band Operation in ITS
..... *T. Fujimoto and K. Iwanaga (Nagasaki University, Japan)*

- 14:20-14:45 Broadband Circularly Polarized Aperture Antennas Using L-Shaped Probe ..
..... **T. Fukusako** (*Kumamoto University, Japan*)
- 14:45-15:10 Latest EMC Technologies Focused on EM Wave Absorbers in Korea
..... **D. I. Kim** and **S. H. Park** (*Korea Maritime University, Korea*)

Session 4 (Chair: K. Uchida)

October 24, 2008 (Friday), 15:30–17:10

- 15:30-15:55 Scattering from a Conducting Cylinder Surrounded by a Phase-Changing
Screen
. **Z. Meng** (*Fukuoka University, Japan*), **M. Tateiba** (*Ariake National College
of Technology, Japan*), and **K. Haruta** (*NEC Corporation, Japan*)
- 15:55-16:20 Features for Landmine Discrimination with Ground Penetrating Radar
..... **M. Nishimoto**, **T. Tanaka**, **Y. Kimura**, and **V. Jandieri** (*Kumamoto
University, Japan*)
- 16:20-16:45 Simplified Monitoring Technique for Seasonal Wetland Water Area Change Us-
ing Quad Polarimetric SAR Data
..... **R. Sato**, **Y. Yamaguchi**, and **H. Yamada** (*Niigata University, Japan*)
- 16:45-17:10 Information Retrieval from ALOS PALSAR and Airborne PI-SAR Images ...
..... **Y. Q. Jin** (*Fudan University, China*)

Evening Session (Forum Banquet)

October 24, 2008 (Friday), 17:30–19:30

Session 5 (Chair: S. Ohnuki)

October 25, 2008 (Saturday), 09:00–10:40

- 09:00-09:25 Mode-Matching Formulation for Scattering from Multiple Slant Strips
H. J. Eom, **J. S. Ock**, and **J. Y. Park** (*Korea Advanced Institute of Science
and Technology, Korea*)
- 09:25-09:50 Analysis of Stop Band Characteristics by Multilayered Dielectric Gratings ...
. **Y. Okuno**, **A. Matsushima**, and **T. Suyama** (*Kumamoto University, Japan*)
- 09:50-10:15 Extraction of Effective Permittivity and Permeability of Periodic Metamaterial
Cells
D. H. Lee (*Pohang University of Science and
Technology, Korea*), **T. T. T. Quynh** (*Vietnam National University in Hanoi,
Vietnam*), and **W. S. Park** (*Pohang University of Science and Technology,
Korea*)
- 10:15-10:40 Multilevel Green's Function Interpolation Scheme for Large Scale Electro-
magnetic Simulations
Y. Shi (*City University of Hong Kong, Xidian
University, China*) and **C. H. Chan** (*City University of Hong Kong, China*)

Session 6 (Chair: *D. C. Park*)

October 25, 2008 (Saturday), 11:00–11:50

- 11:00-11:25 Two-Dimensional Scattering from a Periodic Array of Dielectric Cylinders ...
..... **M. Yokota** and *M. Sesay* (*University of Miyazaki, Japan*)
- 11:25-11:50 Electromagnetic Scattering from Imperfectly Periodic Structures
..... **K. Watanabe** (*Fukuoka Institute of Technology, Japan*)

Session 7 (Chair: *S. Kahng*)

October 25, 2008 (Saturday), 13:30–15:10

- 13:30-13:55 S-Parameter Measurement of Photonic Crystal Waveguide and Cavities by
Scaled Model for Microwave
..... **H. Maeda** (*Fukuoka Institute of Technology, Japan*)
- 13:55-14:20 Rigorous Analysis of Wide-Band Directional Coupler Using Γ -Shape Dielectric
Waveguide .. *S. Xu* and **M. Huang** (*University of Science and Technology of
China, China*)
- 14:20-14:45 Computer Simulation of 3-Dimensional Waveguide by Method of Moment ...
..... **M. Tanaka** and *K. Tanaka* (*Gifu University, Japan*)
- 14:45-15:10 Mode Characteristics of Triangle-Shaped Groove Plasmonic Waveguides
... *C. C. Chung*, *B. Y. Lin*, and **H. C. Chang** (*National Taiwan University,
Taiwan*)

Session 8 (Chair: *K. Watanabe*)

October 25, 2008 (Saturday), 15:30–16:45

- 15:30-15:55 Filament Model for Computing Impedances of Conducting Wires and Trans-
mission Lines
..... **A. Matsushima** and *M. Matsuki* (*Kumamoto University, Japan*)
- 15:55-16:20 Analysis of Electromagnetic Scattering from Polygonal Cylinders
..... **S. Ohnuki**, *R. Ohsawa*, and *T. Mochizuki* (*Nihon University, Japan*)
- 16:20-16:45 Semi-Analytical Approach for a Specific Microstructured Fiber Formed by Lay-
ered Cylindrical Arrays of Circular Rods
..... **K. Yasumoto** (*Kyushu University, Japan*)

Closing Remark

October 25, 2008 (Saturday), 16:45–16:50