Antennas and Propagation Track

WeAP-O1	Special Session: Antennas for Mobile Communications
Time	10:40 to 12:00, Wednesday, 31 October, 2007
Room	
Co-Chair	Dr. Fu-Ren Hsiao, Advanced-Connectek INC., Taiwan.
	Dr. Shih-Huang Yeh, Industrial Technology Research Institute, Taiwan.

10:40 Surface-Mount Metal Chip Antenna with Symmetric Structure for WLAN Application

Po-Sheng Chen, Sheng-Chih Lin, Tsung-Wen Chiu, and Fu-Ren Hsiao Advanced-Connectek INC., Taiwan

11:00 The realization of pattern/polarization diversity by applying vertical excitation

Sung ho Chae, Min-Goo Choi, and Seong-Ook Park Information and Communications University, Korea

11:20 2.4/5.2 GHz Dual-WLAN Unequal-Arms Dipole Antenna with a Chip Inductor for Omni-directional Radiation Patterns

S. H. Yeh 1 , W. C. Yang 2 , W. K. Su 2 , and C.Y. Wu 1

¹Industrial Technology Research Institute, Taiwan

²Chung Cheng Institute of Technology, Taiwan

11:40 Broadband Monopole Antenna for DTV Reception and GSM Operation in the Mobile Phone

Cheng-Tse Lee¹, Kin-Lu Wong¹, and Yuan-Chih Lin²

¹National Sun Yat-Sen University, Taiwan

²Walsin Technology Corporation, Taiwan

WeAP-I	Invited Talk
Time	13:20 to 14:00, Wednesday, 31 October, 2007
Room	
Co-Chair	Prof. Kin-Lu Wong, National Sun Yat-Sen University, Taiwan.
	Prof. Hong-Twu Chen, ROC Military Academy, Taiwan.

WeAP-O2	Broadband and UWB Antennas
Time	14:10 to 15:50, Wednesday, 31 October, 2007
Room	
Co-Chair	Prof. Chien-Jen Wang, National University of Tainan, Taiwan.

Prof. Shun-Yun Lin, Cheng Shiu University, Taiwan.

14:10 Wideband Printed Dipole Antenna for DTV Signal Reception

Yun-Wen Chi and Kin-Lu Wong

National Sun Yat-Sen University, Taiwan

14:30 A CPW-Fed Two-Arm Spiral Slot Antenna

Chien-Jen Wang¹ and Jin-Wei Wu²

¹National University of Tainan, Taiwan

²National Chiao Tung University, Taiwan

14:50 A Planar UWB Antenna with Band Rejection Characteristic

Kyoung-Min Kim, Sung-Kyo Park, In-Su Na, and Chong-Baek Park Chosun University, Korea

15:10 A Double-Sided Printed Y-Shaped Dipole Antenna for UWB Communications

Shu-Ani Yeh, Shun-Yun Lin, Ching-Wei Guan, and Homg-Ren Huang Cheng Shiu University, Taiwan

15:30 The Design of Rhombic Antenna with a Band-Reject Characteristic

Wen-Shan Chen and Yen-Hao Yu

Southern Taiwan University, Taiwan

WeAP-O3	Special Session: Microwave Filters and Diplexers
Time	16:10 to 17:50, Wednesday, 31 October, 2007
Room	
Co-Chair	Prof. Ching-Her Lee, National Changhua University of Education, Taiwan.
	Prof. Ming-Hua Ho, National Changhua University of Education, Taiwan.

16:10 Dual-Band Bandpass Filter Using the Combined λ/2 and λ/4 SIRs for WLAN Applications

P.-W. Chen, H.-H. Ho, and M.-H. Ho

National Changhua University of Education, Taiwan

16:30 UMTS Diplexer Design Using Combined Coplanar Waveguide and Microstrip

Wei-Qin Xu and Min-Hua Ho

National Changhua University of Education, Taiwan

16:50 Design of an LTCC switchable filter for Dual-Band RF Front-End applications

Cheng-Chung Chen and Shih-Ming Wang

Industrial Technology Research Institute, Taiwan

17:10 Design of Dual-Mode SIW Cavity Filters

Chia-Cheng Chuang, Hung-Hsuan Lin, and Chin-Li Wang Industrial Technology and Research Institute, Taiwan

17:30 A Wideband Bandpass Filter using Combined λ/4 Stepped-Impedance Resonators

Lian-Yu Chen¹, Chung-I G. Hsu², and Ching-Her Lee¹

¹National Changhua University of Education, Taiwan

²Da-Ye University, Taiwan

ThAP-O4	Special Session: Small and Integrated Antennas I
Time	10:20 to 12:00, Thursday, 1 November, 2007
Room	
Co-Chair	Prof. Hiroyuki Arai, Yokohama National University, Japan.
	Prof. Wen-Shan Chen, Southern Taiwan University, Taiwan

10:20 Low-profile Loop-shaped Inverted-F Wire Antenna with Dualmode Operation

Minseok Kim¹ and Hiroyuki Arai²

¹Tokyo Institute of Technology, Japan

²Yokohama National University, Japan

- 10:40 Numerical Simulation of Antenna Efficiency Based on Wheeler and Refection Methods Using Method of Moments with Wire-Grid Model Takashi Murayama, Nozomu Ishii, Yasuo Katagiri, and Michio Miyakawa Niigata University, Japan
- 11:00 Characteristics of Built-in Bent Folded Dipole Antenna for Handsets Atsushi Kajitani¹, Yongho Kim¹, Hisashi Morishita¹, and Yoshio Koyanagi²

 ¹National Defense Academy, Japan
 - ²Panasonic Mobile Communications Co., Ltd., Japan

11:20 Internal Penta-Band Printed Loop-Type Mobile Phone Antenna Wei-Yu Li and Kin-Lu Wong National Sun Yat-Sen University, Taiwan

11:40 Design of a Novel Multiband Internal Antenna for Personal Communication Handsets

Rashid Ahmad Bhatti, Hyeong-Sik Yoon, and Seong Ook Park Information and Communications University, Korea

ThAP-O5	Special Session: Small and Integrated Antennas II
Time	13:20 to 15:00, Thursday, 1 November, 2007
Room	

	Prof. Seong-Ook Park, Information and Communications University, Korea
Co-Chair	Prof. Hua-Ming Chen, National Kaohsiung Univ. of Applied Sciences,
	Taiwan

13:20 A novel compact PIFA for Wireless Communication applications Yong-Sun Shin and Seong-Ook Park Information and Communications University, Korea

13:40 High Gain Design of a Very Small Normal Mode Helical Antenna for RFID Tags

Y. Yamada, W.G. Hong, W.H. Jung, and N. Michishita National Defense Academy, Japan

14:00 Design for the Miniaturized RFID Tag Antenna in 910 MHz Band Kyeong-Sik Min, Gun-Do Park, and Chul-Keun Park Korea Maritime University, Korea

14:20 Compact Dual-band Hybrid Dielectric Resonator Antenna Hua-Ming Chen, Yi-Fang Lin, Chia-Ho Lin, and Shih-Chieh Lin National Kaohsiung University of Applied Sciences, Taiwan

14:40 Planar High Gain Antenna for 5.8-GHz WiMAX Operation Chun-Yih Wu, Shih-Huang Yeh, and Tzu-Hao Lu Industrial Technology Research Institute, Taiwan

ThAP-P	Poster Session
Time	15:20 to 17:20, Thursday, 1 November, 2007
Room	
Co-Chair	Prof. Jin-Sen Chen, Cheng Shiu University, Taiwan.
	Prof. Horng-Dean Chen, National Kaohsiung Normal University, Taiwan
	Prof. Fa-Shian Chang, ROC Military Academy, Taiwan
	Prof. Chih-Yu Huang, National Kaohsiung Normal University, Taiwan

AP-P-01 "Bad Urban" Uplink Multipaths' Distribution in Azimuth-Elevation DOA, with Scatterers Modeled as Inside a Cylinder Above the Mobile & as More Sparse with Height

Andriy Yakovych Olenko¹, Sajjad Ahmed Qasmi², and Kainam Thomas Wong³

¹Kyiv University, Ukraine

AP-P-02 Studies of CPW-fed Compact Equilateral Triangular-ring Slot Antennas
Jin-Sen Chen and Tung-Ying Chiang

² Sandvine Incorporated, Canada

³ Hong Kong Polytechnic University, Hong Kong

Cheng Shiu University, Taiwan

AP-P-03 Experimental Consideration on the Synthetic Range-Profile Processing by Stepped-Frequency Radar

Chie Fukushima

Keio University, Japan

AP-P-04 Design of Band-Rejected UWB Slot Antenna with Parasitic Strips

Jieh-Sen Kuo¹ and Chih-Yu Huang²

¹Kao-Yuan University, Taiwan

²National Kaohsiung Normal University, Taiwan

AP-P-05 Joint Two Dimensional DOA and Multipath Time Delay Estimation in Rectangular Planar Array

rectangular rilanar Array

Han Wang and Jin-Kuan Wang

Northeastern University, China

AP-P-06 Broad Dualband Fork-shaped CPW-fed Monopole Antenna

Wen-Chung Liu, Chao-Ming Wu, and Yueh-Hsing Ho

National Formosa University, Taiwan

AP-P-07 A Study on Broadband Printed Slot Antennas with Regular Rhombus Slots

Jen-Yea Jan and Liang-Chin Wang

National Kaohsiung University of Applied Sciences, Taiwan

AP-P-08 Compact Wideband Microstrip-Line-Fed Rhombus-Like Slot Antenna with Extended edges

Jen-Yea Jan and Dong-Rong Wu

National Kaohsiung University of Applied Sciences, Taiwan

AP-P-09 Switchable Printed Monopole Antenna with Frequency Diversity for

WiFi/2.6 GHz WiMAX/3.5 GHz WiMAX Applications

Re-Yu Chou, Chun-Yih Wu, and Shih-Huang Yeh

Industrial Technology Research Institute, Taiwan

AP-P-10 A Novel Design to Prevent Crosstalk

W.T. Huang¹, C.H. Chen², C.H. Lu¹, S.Y. Tan¹

¹National Taipei University of Technology, Taiwan

² Central Taiwan University of Science and Technology, Taiwan

AP-P-11 Application of Linearization Modeling Technology for Nonlinear RF

Power Devices

Maoliu Lin, Xiaojie Hua, Hongjian Sun, and Jing Jiang

Harbin Institute of Technology, China

AP-P-12 A Wide-Band PLL-Based Frequency Synthesizer with Adaptive

Dynamics

Ping-Heng Wu, Ching-Yuan Yang, and So-Yu Chao

National Chung-Hsing University, Taiwan

AP-P-13 A Time-domain Beamformer for UWB Through-wall Imaging

Chen Lei^{1,2} and Shan Ouyang²

¹Xidian University, China

²Guilin University of Electronic Technology, China

AP-P-14 Capacitively-Fed Shorted Patch Antenna for Broadband Operation

H.D. Chen, J. N. Li, Y. H. Taso, and L. C. Lee

National Kaohsiung Normal University, Taiwan

AP-P-15 Broadside CPW Coupled-Line Balun

Guan-Yu Chen¹, Jwo-Shiun Sun¹, Kao-Liang Wu¹, Cheng-Hung Lin², Chia-Hao Wu², Kwong-Kau Tiong², and YD Chen³

¹National Taipei University of Technology, Taiwan

²National Taiwan Ocean University, Taiwan

³High Tech Computer, Corp (HTC), Taiwan

AP-P-16 3D Far-Field Antenna Scanning Technique Apply to Radiation

Efficiency and Mean Effective Gain Measurement

Guan-Yu Chen¹, Cheng-Hung Lin², Jwo-Shiun Sun¹, Kwong-Kau Tiong¹, and YD Chen³

¹National Taipei University of Technology, Taiwan

²National Taiwan Ocean University, Taiwan

³High Tech Computer, Corp (HTC), Taiwan

AP-P-17 Mobile Handset and Radiation Power Absorption Measurement

Guan-Yu Chen¹, Cheng-Hung Lin², Jwo-Shiun Sun¹, Kwong-Kau Tiong¹, and YD Chen³

¹National Taipei University of Technology, Taiwan

²National Taiwan Ocean University, Taiwan

³High Tech Computer, Corp (HTC), Taiwan

AP-P-18 Dual-Band 1-D PBG

Guan-Yu Chen¹, Jwo-Shiun Sun¹, Kao-Liang Wu¹, Cheng-Hung Lin²,

Chia-Hao Wu², Kwong-Kau Tiong², and YD Chen³

¹National Taipei University of Technology, Taiwan

²National Taiwan Ocean University, Taiwan

³High Tech Computer, Corp (HTC), Taiwan

AP-P-19 CPW-Fed Planar Ultra-Wideband Antenna Having a Frequency Band-Reject Function

Wen-Shan Chen and Kai-Cheng Yang

Southern Taiwan University, Taiwan

AP-P-20 Dual-Band Operation Vertical Patch Antenna for WLAN Applications

Kuo-Chien Chao¹, Fa-Shian Chang², Hong-Twu Chen², Chia-Hung Lu², and Yung-Tao Liu²

¹Cheng Shiu University, Taiwan

²ROC Military Academy, Taiwan

AP-P-21 Novel 3D Space Partition Method for Triple WiMax Multilayer LTCC Diplexer IPD Design with EM Coupling Sensitivity Concerns

Chien-Heng Chen and Kuan-Huang Lin

National Sun Yat-Sen University, Taiwan

FrAP-O6	Novel Antenna Structures
Time	09:00 to 10:20, Friday, 2 November, 2007
Room	
Co-Chair	Prof. Shen-Shou Max Chung, Southern Taiwan University, Taiwan
	Dr. Chun-Yih Wu, Industrial Technology Research Institute, Taiwan.

09:00 Capacitive Coupling Return Loss of A New Pre-ionized Monopole Plasma Antenna

Max Chung¹, Wen-Shan Chen¹, Bohr-Ran Huang², Chih-Chia Chang³, Kuang-Yuan Ku¹, Yen-Hao Yu¹, and Tain-Wen Suen⁴

¹Southern Taiwan University, Taiwan

⁴CSIST, Taiwan

09:20 Metamaterial Enhanced High Gain Antenna for WiMAX Application Hung-Hsuan Lin, Chun-Yih Wu, and Shih-Huang Yeh Industrial Technology Research Institute, Taiwan

09:40 Integrated Printed Antenna for DTV Signal Reception in the Portable Media Player

Chih-Hua Chang and Kin-Lu Wong

National Sun Yat-Sen University, Taiwan

10:00 Improvement of Scanning Beams of a Lens Antenna by Cluster Feeds Yosuke Tajima and Yoshihide Yamada

National Defense Academy, Japan

² National Taiwan University of Science and Technology, Taiwan

³Industrial Technology Research Institute, Taiwan

FrAP-O7	Special Session: DOA Estimation and Its Applications
Time	10:40 to 12:20, Friday, 2 November, 2007
Room	
Co-Chair	Prof. Koichi Ichige, Yokohama National University, Japan
	Prof. Kin-Lu Wong, National Sun Yat-Sen University, Taiwan

10:40 Iterative AOA Estimation of Coherent Signals

Kazumasa Kaneko and Akira Sano

Keio University, Japan

11:00 DOA Estimation for Wideband Signals using Modified C-SPRIT Method Yutaka Onuma, Koichi Ichige, and Hiroyuki Arai Yokohama National University, Japan

11:20 Effects of Spatial Correlation Between Signal Subspaces on Indoor Localization Using Subspace Matching

Shohei Ikeda¹, Hiroyuki Tsuji², and Tomoaki Ohtsuki¹

¹Keio University, Japan

²National Institute of Information and Communications Technology, Japan

11:40 Blind Array Calibration Technique for Uniform Linear Array Using ICA Yuhei Shimada, Hiroyoshi Yamada, and Yoshio Yamaguchi Niigata University, Japan

12:00 Two-dimensional DOA Estimation Using L-shaped Patch Array by Light Load Calibration Technique

Jun Yaezawa and Hiroyuki Aari

Yokohama National University, Japan